ΠΛΗΡΕΣ ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

Δρ. ΑΝΤΩΝΙΟΥ Ν. ΠΑΠΑΔΟΠΟΥΛΟΥ

Σεπτέμβριος 2024

ΠΕΡΙΕΧΟΜΕΝΑ

(Ε) Δημοσιεύσεις σε ξενόγλωσσα περιοδικά χωρίς κρίση

(ΣΤ) Κεφάλαια σε βιβλία

(Ζ) Προσκεκλημένες ομιλίες – άρθρα

(Η) Δημοσιεύσεις σε ελληνικά κλαδικά περιοδικά χωρίς κρίση

(Ι) Διατριβές

16. Αναγνώριση Επιστημονικού & Ερευνητικού Έργου (Αναλυτικά)

    (Α) Ετεροαναφορές σε περιοδικά

    (Β) Ετεροναφορές σε βιβλία

1. ΠΡΟΣΩΠΙΚΑ ΣΤΟΙΧΕΙΑ

Ονοματεπώνυμο	:	**ΑΝΤΩΝΙΟΣ ΠΑΠΑΔΟΠΟΥΛΟΣ**
Πατρώνυμο	:	Νικόλαος
Ημερομηνία γέννησης:		25-11-1974
Τόπος γέννησης	:	Θεσσαλονίκη
Επάγγελμα	:	Καθηγητής Δ.Π.Θ.
		Ερευνητής / Τεχνολόγος – Χημικός ξύλου
Δ/νση Εργασίας:		Δημοκρίτειο Πανεπιστήμιο Θράκης (Δ.Π.Θ.), Σχολή Επιστημών Γεωπονίας και Δασολογίας, Τμήμα Δασολογίας & Φυσικού Περιβάλλοντος, ΤΚ 66100, Δράμα
		Τηλ. (25210) 60429
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2. ΤΙΤΛΟΙ ΣΠΟΥΔΩΝ

- **Πτυχίο τεχνολογικής εκπαίδευσης** - Τεχνολογικό Εκπαιδευτικό Ίδρυμα Δράμας, Παράρτημα Καβάλας, Τμήμα Δασοπονίας, με βαθμό 'Λίαν Καλώς' (7.50).
- **Μεταπτυχιακό δίπλωμα** (M.Sc.) - University of Wales Bangor, School of Agricultural and Forest Sciences, United Kingdom. (*Με διάκριση – with distinction*)
- **Διδακτορικό δίπλωμα** (Ph.D.) - University of Wales Bangor, School of Agricultural and Forest Sciences, United Kingdom.

3. ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΠΡΟΫΠΗΡΕΣΙΑ

Τακτικός Καθηγητής (12-03-2024 – σήμερα), στο γνωστικό αντικείμενο '*Χημεία Ξύλου'.* Δημοκρίτειο Πανεπιστήμιο Θράκης (Δ.Π.Θ). Σχολή Επιστημών Γεωπονίας και Δασολογίας, Τμήμα Δασολογίας & Φυσικού Περιβάλλοντος.

Τακτικός Καθηγητής (06-04-2021 – 12-03-2024), στο γνωστικό αντικείμενο '*Χημεία Ξύλου'.* Διεθνές Πανεπιστήμιο της Ελλάδας (ΔΙ.ΠΑ.Ε.). Σχολή Γεωτεχνικών Επιστημών, Τμήμα Δασολογίας & Φυσικού Περιβάλλοντος.

Τακτικός Αναπληρωτής Καθηγητής (07-05-2019 – σήμερα), στο γνωστικό αντικείμενο '*Επιστήμη & Τεχνολογία Ξύλου – Χημεία Ξύλου'*. Διεθνές Πανεπιστήμιο της Ελλάδας (ΔΙ.ΠΑ.Ε.). Σχολή Γεωτεχνικών Επιστημών, Τμήμα Δασολογίας & Φυσικού Περιβάλλοντος.

Τακτικός Αναπληρωτής Καθηγητής (01-06-2016 – 06-05-2019), στο γνωστικό αντικείμενο '*Επιστήμη & Τεχνολογία Ξύλου – Χημεία Ξύλου'*. Τεχνολογικό Εκπαιδευτικό Ανατολικής Μακεδονίας-Θράκης, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος.

Τακτικός Επίκουρος Καθηγητής (17-09-2012 – 31-05-2016), στο γνωστικό αντικείμενο '*Επιστήμη & Τεχνολογία Ξύλου – Χημεία Ξύλου'*.

Τεχνολογικό Εκπαιδευτικό Ανατολικής Μακεδονίας-Θράκης, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος.

Τακτικός Καθηγητής Εφαρμογών (**13-10-2005 – 16-09-2012**), στο αντικείμενο '*Τεχνολογίας Ξύλου-Παραγώγων – Συγκομιδής Δασικών Προϊόντων*'. Τεχνολογικό Εκπαιδευτικό Ανατολικής Μακεδονίας-Θράκης, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος.

Διευθυντής του Προγράμματος Μεταπτυχιακών Σπουδών με τίτλο «Σχεδιασμός και Διαχείριση Αστικού Πρασίνου». Τεχνολογικό Εκπαιδευτικό Ανατολικής Μακεδονίας-Θράκης, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**04-10-2019 έως σήμερα**).

Πρόεδρος της Συντονιστικής Επιτροπής του Προγράμματος Μεταπτυχιακών Σπουδών με τίτλο «Σχεδιασμός και Διαχείριση Αστικού Πρασίνου». Τεχνολογικό Εκπαιδευτικό Ανατολικής Μακεδονίας-Θράκης, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**08-10-2015 έως 30-09-2016**). Συνολικός χρόνος προϋπηρεσίας: **12 μήνες**

Μέλος της Συντονιστικής Επιτροπής του Προγράμματος Μεταπτυχιακών Σπουδών με τίτλο «Σχεδιασμός και Διαχείριση Αστικού Πρασίνου». Τεχνολογικό Εκπαιδευτικό Ανατολικής Μακεδονίας-Θράκης, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**20-12-2017 έως 30-09-2018**). Συνολικός χρόνος προϋπηρεσίας: **9 μήνες**

Μέλος της Συντονιστικής Επιτροπής του Προγράμματος Μεταπτυχιακών Σπουδών με τίτλο «Σχεδιασμός και Διαχείριση Αστικού Πρασίνου». Τεχνολογικό Εκπαιδευτικό Ανατολικής Μακεδονίας-Θράκης, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**09-12-2016 έως 30-09-2017**). Συνολικός χρόνος προϋπηρεσίας: **10 μήνες**

Επιστημονικός Υπεύθυνος του Προγράμματος 'Καινοτόμα σύνθετα προϊόντα ξύλου και πλαστικού σε μορφή πλακών από την ανακύκλωση πολυστυρενίου (FELIZOL) και ξυλοτεμαχιδίων'. «Υποστήριξη ερευνητών με έμφαση στους νέους ερευνητές – κύκλος Β'», του Επιχειρησιακού Προγράμματος «Ανάπτυξη Ανθρώπινου Δυναμικού, Εκπαίδευση και Διά Βίου Μάθηση», ΕΣΠΑ 2014-2020. (**21-03-2020 έως 21-06-2021**).

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα 'Ποιοτικός έλεγχος συγκολλημένων προιόντων ξύλου (μοριοπλάκες με επένδυση μελαμίνης) βάση της EN 14323'. Πανεπιστήμιο Θεσσαλίας, Τμήμα Δασολογίας, Επιστημών Ξύλου & Σχεδιασμού – (**11-03-2021 έως 10-05-2021**). Επιστημονικός Υπεύθυνος Δρ. Γεώργιος Νταλός. Συνολικός χρόνος προϋπηρεσίας: **2 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα 'Ποιοτικός έλεγχος επίπλου (τραχήλατη συρταριέρα) βάση της EN 14074 και EN 14073'. Πανεπιστήμιο Θεσσαλίας, Τμήμα Δασολογίας, Επιστημών Ξύλου & Σχεδιασμού – (**12-01-2021 έως 11-07-2021**). Επιστημονικός Υπεύθυνος Δρ. Γεώργιος Νταλός. Συνολικός χρόνος προϋπηρεσίας: **6 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα 'Διεπιστημονική εκπαίδευση στην κυκλική οικονομία και έξυπνη αξιολόγηση νέων επιχειρηματικών προτύπων για τις αγροτικές περιοχές'. Διεθνές Πανεπιστήμιο της Ελλάδος, Τμήμα Δασολογίας & Φυσικού Περιβάλλοντος , – (**09-07-2020 έως 13-08-2022**). Επιστημονικός Υπεύθυνος Δρ. Βασιλική Καζάνα. Συνολικός χρόνος προϋπηρεσίας: **24 μήνες**

Επιστημονικός Υπεύθυνος για το Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος του έργου 'Πρακτική Άσκηση Τριτοβάθμιας Εκπαίδευσης του ΤΕΙ Ανατολικής Μακεδονίας – Θράκης' με ΟΠΣ 5032896 του Επιχειρησιακού Προγράμματος «Ανταγωνιστικότητα Επιχειρηματικότητα και Καινοτομία 2014-2020» (**01-11-2018 έως 31-12-2022**). Συνολικόςχρόνος προϋπηρεσίας: **50 μήνες**

Επιστημονικός Υπεύθυνος για το Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος του έργου 'Πρακτική Άσκηση Τριτοβάθμιας Εκπαίδευσης του ΤΕΙ Ανατολικής Μακεδονίας – Θράκης' με MIS 5000387 του Επιχειρησιακού Προγράμματος 'Ανάπτυξη Ανθρώπινου Δυναμικού, Εκπάιδευση και Δια Βίου Μάθηση 2014-2020' (**01-04-2016 έως 31-10-2018**). Συνολικός χρόνος προϋπηρεσίας: **31 μήνες**

Επιστημονικός Υπεύθυνος & Ερευνητής / Επιστήμων ξύλου, στο έργο 'Αξιολόγηση ξύλινων στύλων εμποτισμένων με κρεόζωτο'. Τεχνολογικό Εκπαιδευτικό Ανατολικής Μακεδονίας-Θράκης, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**20-02-2017 έως 20-03-2017**). Συνολικός χρόνος προϋπηρεσίας: **1 μήνας**

Επιστημονικός Υπεύθυνος & Ερευνητής / Επιστήμων ξύλου, στο έργο ‘Παραγωγή Οδηγού Πεδίου των Μανιταριών του Εθνικού Πάρκου Οροσειράς Ροδόπης (ΕΠΟΡ)’. Τεχνολογικό Εκπαιδευτικό Ανατολικής Μακεδονίας-Θράκης, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**01-10-2015 έως 30-11-2015**). Συνολικός χρόνος προϋπηρεσίας: **2 μήνες**

Επιστημονικός Υπεύθυνος & Ερευνητής / Επιστήμων ξύλου, στο έργο ‘Τεχνική έκθεση για την αναγνώριση ξύλου και την μηχανική κατεργασία στύλων πριν τον εμποτισμό με κρεόζωτο’. Τεχνολογικό Εκπαιδευτικό Ανατολικής Μακεδονίας-Θράκης, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**10-12-2015 έως 10-01-2016**). Συνολικός χρόνος προϋπηρεσίας: **1 μήνας**

Ερευνητής / Επιστήμων ξύλου, στο πρόγραμμα ‘ΠΕΓΑ –Σχεδιασμός και Τεχνολογία Ξύλου’, με παραδοτέο το έργο ‘*Ανάπτυξη του εκπαιδευτικού υλικού του μαθήματος Καινοτόμες τεχνολογίες για την παραγωγή ξυλοπλακών με βελτιωμένες ιδιότητες’*. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Θεσσαλίας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**02-07-2015 έως 16-10-2005**). Επιστημονικός Υπεύθυνος Δρ. Σωτήριος Καραστεργίου. Συνολικός χρόνος προϋπηρεσίας: **3 ½ μήνες**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα ‘Έρευνα & ανάπτυξη για νέα νανοσκευάσματα προστασίας του ξύλου – τεχνική υποστήριξη και συμβουλές’. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και

Επίπλου. (**01-01-2012 έως 31-12-2012**). Επιστημονικός Υπεύθυνος Δρ. Γεώργιος Μαντάνης. Συνολικός χρόνος προϋπηρεσίας: **12 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα 'INFORM-building a structured, indicator based knowledge system for sustainable forest-policy and management' με παραδοτέο το έργο 'Συλλογή στοιχείων και εκτιμήσεις τιμών βάσης για MCPFE δείκτες που αφορούν την κατανάλωση-εμπορία ξύλου και προϊόντων ξύλου'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Καβάλας, Παράρτημα Δράμας, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**01-01-2011 έως 31-12-2011**). Επιστημονικός Υπεύθυνος Δρ. Βασιλική Καζάνα. Συνολικός χρόνος προϋπηρεσίας: **12 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα 'Βελτίωση προϊόντος νανοτεχνολογίας για την προστασία και αδιαβροχοποίηση του ξύλου'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**02-10-2010 έως 02-01-2011**). Επιστημονικός Υπεύθυνος Δρ. Γεώργιος Μαντάνης Συνολικός χρόνος προϋπηρεσίας: **3 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο πρόγραμμα του '*Λειτουργία και ανάπτυξη Γραφείου διασύνδεσης – Β' Φάση*', με αντικείμενο τη Διοργάνωση Ημερών Αιχμής, Συν-διοργάνωση εκδηλώσεων ημερών καριέρας. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Καβάλας, Παράρτημα Δράμας, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**01-01-2006 έως 31-12-2008**). Επιστημονικός Υπεύθυνος Δρ. Κωνσταντίνος Τερζίδης Συνολικός χρόνος προϋπηρεσίας: **4 ½ μήνες**

Ερευνητής / Επιστήμων ξύλου, στο πρόγραμμα του '*Προπτυχιακά Προγράμματα Σπουδών ΤΕΙ Καβάλας - Περιβάλλον*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Καβάλας. (**07-02-2008 έως 20-06-2008**). Επιστημονικός Υπεύθυνος Δρ. Νικόλαος Αβτζής. Συνολικός χρόνος προϋπηρεσίας: **<u>36 μήνες.</u>**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα Αρχιμήδης ΙΙ 'Αξιοποίηση γεωργικών υπολειμμάτων για την κατασκευή μοριοπλακών μειωμένης περιεχόμενης φορμαλδεΰδης'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**01-01-2005 έως 31-12-2006**). Επιστημονικός Υπεύθυνος Δρ. Γεώργιος Νταλός. Συνολικός χρόνος προϋπηρεσίας: **<u>24 μήνες</u>**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα 'Μελέτη συνδεσμολογίας ξυλείας για την παραγωγή τμημάτων επίπλου: Επίδραση επιλεγμένων συντελεστών παραγωγής', με παραδοτέο το έργο '*Εργαστηριακή κατασκευή συγκολλημένων κατά μήκος δειγμάτων δρυός με δακτυλοειδείς συνδέσεις*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**01-11-2004 έως 31-12-2004**). Επιστημονικός Υπεύθυνος Δρ. Σωτήριος Καραστεργίου. Συνολικός χρόνος προϋπηρεσίας: **<u>2 μήνες</u>**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα καινοτόμων 'Ανάπτυξη νέων προιόντων ή διεργασιών ή μεθόδων μεταποίησης στον κλάδο του ξύλου στη Δυτική Μακεδονία', με παραδοτέο το έργο '*Ανάλυση νέων προιόντων ξύλου –τεχνολογιών για τη βελτίωση του ξύλου – προιόντων* *ξύλου'*. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**01-03-2004 έως 30-09-2004**). Επιστημονικός Υπεύθυνος Δρ. Γεώργιος Νταλός. Συνολικός χρόνος προϋπηρεσίας: **7 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα 'Στρατηγικές για την εργαστηριακή παραγωγή μοριοσανίδας τύπου OSB χρησιμοποιόντας ως συγκολλητική ουσία το τσιμέντο (Τσιμεντοσανίδα τύπου OSB)', με παραδοτέο το έργο '*Επίδραση της αναλογίας τσιμέντου-ξυλοτεμαχιδίων στις μηχανικές και φυσικές ιδιότητες της τσιμεντοσανίδας OSB*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**01-07-2004 έως 30-09-2004**). Επιστημονικός Υπεύθυνος Δρ. Ιωάννης Κακαράς. Συνολικός χρόνος προϋπηρεσίας: **3 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα 'Μελέτη της διαστασιακής σταθερότητας χημικά τροποποιημένου ξύλου', με παραδοτέο το έργο '*Διενέργεια πειραμάτων χημικής τροποποίησης ξύλου πεύκης και οξιάς'*. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**01-05-2004 έως 30-06-2004**). Επιστημονικός Υπεύθυνος Δρ. Γεώργιος Μαντάνης. Συνολικός χρόνος προϋπηρεσίας: **2 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα 'Μελέτη της διαστασιακής σταθερότητας χημικά τροποποιημένου ξύλου', με παραδοτέο το έργο '*Επιλογή καταλύτη και διενέργεια χημικής τροποποίησης του ξύλου*'.

Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**29-10-2003 έως 30-11-2003**). Επιστημονικός Υπεύθυνος Δρ. Γεώργιος Μαντάνης. Συνολικός χρόνος προϋπηρεσίας: **1 μήνας**

Ερευνητής / Επιστήμων ξύλου, στο πρόγραμμα του ΕΠΕΑΕΚ '*Αναμόρφωση και προσαρμογή του Προγράμματος Προπτυχιακών Σπουδών του Τμήματος Σχεδιασμού και Τεχνολογίας Ξύλου και Επίπλου του Τ.Ε.Ι. στις νέες απαιτήσεις*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**31-06-2003 έως 31-12- 2004**). Επιστημονικός Υπεύθυνος Δρ. Ιωάννης Κακαράς. Συνολικός χρόνος προϋπηρεσίας: **18 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα: '*Ποιοτικός έλεγχος (ι) Μοριοπλακών προέλευσης ALFA WOOD Bulgaria (ιι) Μοριοπλακών προέλευσης από Τσεχία (ιιι) Συγκολλητικής ουσίας που χρησιμοποιείται στο εργοστάσιο ALFA WOOD Bulgaria (ιν) Ξυλοτεμαχιδίων που χρησιμοποιούνται στη μεσσαία στρώση κατασκευής μοριοπλακών καθώς και λεπτού υλικού που παίρνει μέρος στην επιφανειακή στρώση*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**12-12-2002 έως 12-12-2003**). Επιστημονικός Υπεύθυνος Δρ. Γεώργιος Νταλός. Συνολικός χρόνος προϋπηρεσίας**: 12 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα 'Καθορισμός των ενεργειών προσαρμογής μονάδων ξύλου-επίπλου στα δεδομένα της

Ευρωπαικής αγοράς', με παραδοτέο το έργο '*Υφιστάμενη κατάσταση και προοπτικές των βιομηχανιών ξύλου-επίπλου στην περιοχή της Θεσσαλίας*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**15-11-2002 έως 31-12-2002**). Επιστημονικός Υπεύθυνος Δρ. Ιωάννης Κακαράς. Συνολικός χρόνος προϋπηρεσίας: **1 ½ μήνες**

Ερευνητής / Επιστήμων ξύλου, στο πρόγραμμα του ΕΠΕΑΕΚ με τίτλο 'Ίδρυση Νέου Τμήματος Σχεδιασμού και Τεχνολογίας Ξύλου και Επίπλου', με παραδοτέο το έργο '*Οργάνωση πρακτικής άσκησης σε βιομηχανίες ξύλου-επίπλου και οργάνωση πτυχιακών εργασιών*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**01-10-2001 έως 31-08- 2002**). Επιστημονικός Υπεύθυνος Δρ. Ιωάννης Κακαράς. Συνολικός χρόνος προϋπηρεσίας: **11 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο πρόγραμμα του ΕΠΕΑΕΚ με τίτλο 'Ίδρυση Νέου Τμήματος Σχεδιασμού και Τεχνολογίας Ξύλου και Επίπλου', με παραδοτέο το έργο '*Προστασία και βελτίωση της διαστασιακής σταθερότητας του ξύλου χρησιμοποιόντας χημική τροποποίηση*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (**01-02-2001 έως 31-08- 2001**). Επιστημονικός Υπεύθυνος Δρ. Ιωάννης Κακαράς . Συνολικός χρόνος προϋπηρεσίας**: 7 μήνες**

Ερευνητής / Επιστήμων ξύλου, στο ερευνητικό πρόγραμμα: '*Αντίσταση σε αποσύνθεση χημικώς τροποποιημένου ξύλου κωνοφόρων*'. Σχολή Επιστημών Γεωπονίας και Δασολογίας Πανεπιστήμιο Μπάνγκορ της Ουαλίας. (**01-10-1998 έως 31-01-2001**). - Επιστημονικός Υπεύθυνος Dr. Callum A.S. Hill. Συνολικός χρόνος προϋπηρεσίας: **28 μήνες**

Τεχνολόγος Ξύλου, στο έργο '*Μελέτη σκοπιμότητος (τεχνικοοικονομική μελέτη) εφαρμογής ξύλου και προιόντων ξύλου για την αποκατάσταση – αναστήλωση κτισμάτων της Ιεράς μονής Βατοπεδίου και σύνταξη τριμηνιαίων εκθέσεων ελέγχου και παρατηρήσεων των αναστηλώσεων*'. (**10-07-1998 έως 20-01-2001**). - Συνολικός χρόνος προϋπηρεσίας: **30 μήνες**

4. ΕΠΙΣΤΗΜΟΝΙΚΟΣ ΥΠΕΥΘΥΝΟΣ ΠΡΟΓΡΑΜΜΑΤΩΝ

Επιστημονικός Υπεύθυνος & Ερευνητής / Επιστήμων ξύλου, στο έργο, ‘Εργαστηριακή παραγωγή καινοτόμου προϊόντος προσανατολισμένων τεμαχιδίων ξύλου με χρήση τσιμέντου ως συγκολλητική ουσία (Cement Bonded Oriented Strand Board). **(01-10-2006 έως 01-10-2008).**

Επιστημονικός Υπεύθυνος & Ερευνητής / Επιστήμων ξύλου, στο εργο ‘Παραγωγή Οδηγού Πεδίου των Μανιταριών του Εθνικού Πάρκου Οροσειράς Ροδόπης (ΕΠΟΡ)’. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Ανατολικής Μακεδονίας-Θράκης, Παράρτημα Δράμας, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**01-10-2015 έως 30-11-2015**).

Επιστημονικός Υπεύθυνος & Ερευνητής / Επιστήμων ξύλου, στο εργο ‘Τεχνική έκθεση για την αναγνώριση ξύλου και την μηχανική κατεργασία στύλων πριν τον εμποτισμό με κρεόζωτο’. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Ανατολικής Μακεδονίας-Θράκης, Παράρτημα Δράμας, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**10-12-2015 έως 10-01-2016**).

Επιστημονικός Υπεύθυνος & Ερευνητής / Επιστήμων ξύλου, στο έργο ‘Αξιολόγηση ξύλινων στύλων εμποτισμένων με κρεόζωτο’. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Καβάλας, Παράρτημα Δράμας, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (**20-02-2017 έως 20-03-2017**).

Επιστημονικός Υπεύθυνος του Προγράμματος ‘Καινοτόμα σύνθετα προϊόντα ξύλου και πλαστικού σε μορφή πλακών από την ανακύκλωση πολυστυρενίου (FELIZOL) και ξυλοτεμαχιδίων’. «Υποστήριξη ερευνητών με έμφαση στους νέους ερευνητές – κύκλος Β’», του Επιχειρησιακού Προγράμματος «Ανάπτυξη Ανθρώπινου Δυναμικού, Εκπαίδευση και Διά Βίου Μάθηση», ΕΣΠΑ 2014-2020. (**21-03-2020 έως 21-06-2021**).

5. ΔΙΔΑΚΤΙΚΗ ΠΡΟΫΠΗΡΕΣΙΑ – ΠΡΟΠΤΥΧΙΑΚΟ ΕΠΙΠΕΔΟ

Τακτικός Καθηγητής, στο γνωστικό αντικείμενο ‘*Χημεία Ξύλου*’. Δημοκρίτειο Πανεπιστήμιο Θράκης (Δ.Π.Θ). Σχολή Επιστημών Γεωπονίας και Δασολογίας, Τμήμα Δασολογίας & Φυσικού Περιβάλλοντος. Συνολικός χρόνος προϋπηρεσίας: (13-03-2024 – σήμερα)

Τακτικός Καθηγητής, στο γνωστικό αντικείμενο ‘*Χημεία Ξύλου*’. Διεθνές Πανεπιστήμιο της Ελλάδας (ΔΙ.ΠΑ.Ε.) Σχολή Γεωτεχνικών Επιστημών, Τμήμα Δασολογίας & Φυσικού Περιβάλλοντος. Συνολικός χρόνος προϋπηρεσίας: (01-06-2021 – 12-03-2024)

Τακτικός Αναπληρωτής Καθηγητής, στο γνωστικό αντικείμενο ‘*Επιστήμη & Τεχνολογία Ξύλου – Χημεία Ξύλου*’. Διεθνές Πανεπιστήμιο της Ελλάδας (ΔΙ.ΠΑ.Ε.) Σχολή Γεωτεχνικών Επιστημών, Τμήμα Δασολογίας & Φυσικού Περιβάλλοντος. Συνολικός χρόνος προϋπηρεσίας: (06-05-2019 – 31-05-2021)

Τακτικός Αναπληρωτής Καθηγητής, στο γνωστικό αντικείμενο ‘*Επιστήμη & Τεχνολογία Ξύλου – Χημεία Ξύλου*’. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Ανατολικής Μακεδονίας-Θράκης, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. Συνολικός χρόνος προϋπηρεσίας: (01-06-2016 – 06-05-2019)

Έκτακτος Επίκουρος Καθηγητής στο μάθημα ‘*Χημεία & Χημικά Προιόντα Ξύλου*’ Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Τμήμα Δασολογίας και Φυσικού Περιβάλλοντος. Διδάσκων στη βαθμίδα του Επίκουρου Καθηγητή (4/6) βάσει Π.Δ. 407/80 (14-4-2016 έως 31-08-2016).

Τακτικός Επίκουρος Καθηγητής στο γνωστικό αντικείμενο ‘*Επιστήμη & Τεχνολογία Ξύλου – Χημεία Ξύλου*’. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Καβάλας, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (17-09-2012 – 31-05-2016)

Τακτικός Καθηγητής Εφαρμογών στο αντικείμενο *‘Τεχνολογίας Ξύλου-Παραγώγων – Συγκομιδής Δασικών Προϊόντων’*. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Καβάλας, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. - Συνολικός χρόνος προϋπηρεσίας: (13-10-2005 – 16-9-2012)

Έκτακτος Επίκουρος Καθηγητής στα μαθήματα: (ι) ‘*Χημική Τεχνολογία ξύλου* ’ (ιι) *Τεχνολογία ξύλου ΙΙ*’. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (04-10-2004 έως 27-06-2005). - Συνολικός χρόνος προϋπηρεσίας: **12 μήνες**

Έκτακτος Επίκουρος Καθηγητής στο μάθημα: ‘*Δασική τεχνολογία ξύλου*’. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Δασοπονίας. (04-10-2004 έως 27-06-2005). - Συνολικός χρόνος προϋπηρεσίας: **12 μήνες**

Έκτακτος Επίκουρος Καθηγητής στα μαθήματα: (ι) '*Δασική τεχνολογία ξύλου*' (ιι) '*Υλοχρηστική-Δομή ξύλου*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λαμίας, Παράρτημα Καρπενησίου, Τμήμα Δασοπονίας. (20-09-2004 έως 24-06-2005). - Συνολικός χρόνος προϋπηρεσίας: **12 μήνες**

Έκτακτος Επίκουρος Καθηγητής στα μαθήματα: (ι) '*Τεχνολογία ξύλου Ι*' (ιι) *Τεχνολογία ξύλου ΙΙ*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (22-10-2003 έως 02-07-2004). - Συνολικός χρόνος προϋπηρεσίας: **12 μήνες**

Έκτακτος Επίκουρος Καθηγητής στα μαθήματα: (ι) '*Τεχνολογία ξύλου Ι*' (ιι) *Τεχνολογία ξύλου ΙΙ*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού – Τεχνολογίας Ξύλου και Επίπλου. (23-09-2002 έως 24-02-2003). - Συνολικός χρόνος προϋπηρεσίας: **6 μήνες**

Έκτακτος Επίκουρος Καθηγητής στα μαθήματα: (ι) '*Δασική τεχνολογία ξύλου*' (ιι) '*Υλοχρηστική*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λαμίας, Παράρτημα Καρπενησίου, Τμήμα Δασοπονίας. (23-09-2002 έως 24-02-2003). - Συνολικός χρόνος προϋπηρεσίας: **6 μήνες**

Έκτακτος Επίκουρος Καθηγητής στα μαθήματα: (ι) '*Τεχνολογία ξύλου ΙΙΙ*' (ιι) '*Επεξεργασία επιφανειών επίπλου-φινίρισμα*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού –

Τεχνολογίας Ξύλου και Επίπλου. (10-03-2002 έως 13-09-2002). - Συνολικός χρόνος προϋπηρεσίας: **6 μήνες**

Έκτακτος Καθηγητής Εφαρμογών στα μαθήματα: (ι) '*Δασική τεχνολογία ξύλου*' (ιι) '*Υλοχρηστική*'. Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λαμίας, Παράρτημα Καρπενησίου, Τμήμα Δασοπονίας. (24-09-2001 έως 13-09-2002). - Συνολικός χρόνος προϋπηρεσίας: **12 μήνες**

6. ΔΙΔΑΚΤΙΚΗ ΠΡΟΫΠΗΡΕΣΙΑ – ΜΕΤΑΠΤΥΧΙΑΚΟ ΕΠΙΠΕΔΟ

Διδάσκων και υπεύθυνος του μαθήματος '*Developing Research Project and Thesis Writing*' στο μεταπτυχιακό πρόγραμμα σπουδών 'Management of Water Resources in the Mediterranean' του Τμήματος Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης (ακαδημαικό έτος 2013-2014).

Διδάσκων και υπεύθυνος του μαθήματος '*Ερευνητική Μεθοδολογία*' στο μεταπτυχιακό πρόγραμμα σπουδών 'Σχεδιασμός και Διαχείριση Αστικού Πρασίνου' του Τμήματος Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης (ακαδημαικό έτος 2015-2016).

Διδάσκων και υπεύθυνος του μαθήματος '*Σχεδιασμός και Συντήρηση Έργων Ξύλου στο Αστικό Πράσινο*' στο μεταπτυχιακό πρόγραμμα σπουδών 'Σχεδιασμός και Διαχείριση Αστικού Πρασίνου' του Τμήματος Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης (ακαδημαικό έτος 2015-2016).

Διδάσκων και υπεύθυνος του μαθήματος '*Ερευνητική Μεθοδολογία*' στο μεταπτυχιακό πρόγραμμα σπουδών 'Σχεδιασμός και Διαχείριση Αστικού Πρασίνου' του Τμήματος Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης (ακαδημαικό έτος 2016-2017).

Διδάσκων και υπεύθυνος του μαθήματος ‘*Σχεδιασμός και Συντήρηση Έργων Ξύλου στο Αστικό Πράσινο*’ στο μεταπτυχιακό πρόγραμμα σπουδών ‘Σχεδιασμός και Διαχείριση Αστικού Πρασίνου’ του Τμήματος Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης (ακαδημαικό έτος 2016-2017).

Διδάσκων και υπεύθυνος του μαθήματος ‘*Ερευνητική Μεθοδολογία*’ στο μεταπτυχιακό πρόγραμμα σπουδών ‘Σχεδιασμός και Διαχείριση Αστικού Πρασίνου’ του Τμήματος Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης (ακαδημαικό έτος 2017-2018).

Διδάσκων και υπεύθυνος του μαθήματος ‘*Σχεδιασμός και Συντήρηση Έργων Ξύλου στο Αστικό Πράσινο*’ στο μεταπτυχιακό πρόγραμμα σπουδών ‘Σχεδιασμός και Διαχείριση Αστικού Πρασίνου’ του Τμήματος Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης (ακαδημαικό έτος 2017-2018).

Διδάσκων του μαθήματος ‘*Ερευνητική Μεθοδολογία*’ στο Διιδρυματικό μεταπτυχιακό πρόγραμμα σπουδών ‘Σχεδιασμός και Διαχείριση Αστικού Πρασίνου’ του Τμήματος Δασολογίας και Διαχείρισης Φυσικού Περιβάλλοντος του ΑΠΘ και του Τμήματος Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης (ακαδημαικό έτος 2018-2019).

Διδάσκων και υπεύθυνος του μαθήματος ‘*Σχεδιασμός και Συντήρηση Έργων Ξύλου στο Αστικό Πράσινο*’ στο Διιδρυματικό μεταπτυχιακό πρόγραμμα σπουδών ‘Σχεδιασμός και Διαχείριση Αστικού Πρασίνου’ του Τμήματος Δασολογίας και Διαχείρισης Φυσικού Περιβάλλοντος του ΑΠΘ και του Τμήματος Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης (ακαδημαικό έτος 2018-2019).

Διδάσκων του μαθήματος ‘*Νανοτεχνολογία-Νανουλικά/module Νανοτεχνολογία ξύλου*’ στο μεταπτυχιακό πρόγραμμα σπουδών ‘Νανοτεχνολογία’ του Τμήματος Χημείας του Διεθνούς Πανεπιστημίου της Ελλάδος (ακαδημαικό έτος 2018-2019).

Διδάσκων του μαθήματος ‘*Ερευνητικές Μέθοδοι/module Βιβλιογραφική Ανασκόπηση-Συγγραφή Ερευνητικής Εργασίας*’ στο μεταπτυχιακό πρόγραμμα σπουδών ‘Νανοτεχνολογία’ του Τμήματος Χημείας του Διεθνούς Πανεπιστημίου της Ελλάδος (ακαδημαικό έτος 2018-2019).

Διδάσκων του μαθήματος ‘*Νανοτεχνολογία-Νανουλικά/module Νανοτεχνολογία ξύλου*’ στο μεταπτυχιακό πρόγραμμα σπουδών ‘Νανοτεχνολογία’ του Τμήματος Χημείας του Διεθνούς Πανεπιστημίου της Ελλάδος (ακαδημαικό έτος 2019-2020).

Διδάσκων του μαθήματος ‘*Νερό-Ενέργεια-Τροφή ως Ενιαίο Σύμπλοκο*’ στο μεταπτυχιακό πρόγραμμα σπουδών ‘Άνθρωπος & Νερό’ του Τμήματος Δασολογίας και Διαχείρισης Φυσικού Περιβάλλοντος του Διεθνούς Πανεπιστημίου της Ελλάδος (ακαδημαικό έτος 2019-2020).

Διδάσκων του μαθήματος ‘*Νερό-Ενέργεια-Τροφή ως Ενιαίο Σύμπλοκο*’ στο μεταπτυχιακό πρόγραμμα σπουδών ‘Άνθρωπος & Νερό’ του Τμήματος Δασολογίας και Διαχείρισης Φυσικού Περιβάλλοντος του Διεθνούς Πανεπιστημίου της Ελλάδος (ακαδημαικό έτος 2020-2021).

7. ΔΙΟΙΚΗΤΙΚΗ ΠΡΟΫΠΗΡΕΣΙΑ

Προϊστάμενος του Γραφείου Διασύνδεσης του Παραρτήματος Δράμας (Τμήματα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος και Αρχιτεκτονικής Τοπίου) του ΤΕΙ ΑΜΘ. **(01-01-2007 μέχρι 30-06-2008).**

Αναπληρωτής Διευθυντής του Α' Τομέα Μαθημάτων ''Έργων Φυσικού Περιβάλλοντος' του Τμήματος Δασοπονίας και Διαχείρισης Φυσικού Περιβάλλοντος του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης, τα ακαδημαϊκά έτη 2013-2014 και 2014-2015.

Αναπληρωτής Προϊστάμενος του Τμήματος Δασοπονίας και Διαχείρισης Φυσικού Περιβάλλοντος, του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης, (13-2-2013 μέχρι 31-8-2013).

Διευθυντής του Α' Τομέα Μαθημάτων Έργων Φυσικού Περιβάλλοντος' του Τμήματος Δασοπονίας και Διαχείρισης Φυσικού Περιβάλλοντος τ του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης, από 01-11-2015 μέχρι 31-08-2016 και από 01-09-2016 μέχρι 30-11-2017 (ακαδημαϊκά έτη 2015-2016 και 2016-2017).

Μέλος της Συντονιστικής Επιτροπής του Προγράμματος Μεταπτυχιακών Σπουδών με τίτλο «Σχεδιασμός και Διαχείριση Αστικού Πρασίνου». Τεχνολογικό Εκπαιδευτικό Ίδρυμα Ανατολικής Μακεδονίας-Θράκης Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος. (ακαδημαϊκά έτη 2015-2018).

Πρόεδρος του Τμήματος Δασοπονίας και Διαχείρισης Φυσικού Περιβάλλοντος του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης, από 01-12-2017 μέχρι 06-05-2019.

Πρόεδρος του Τμήματος Δασολογίας και Φυσικού Περιβάλλοντος της Σχολής Γεωτεχνικών Επιστημών του Διεθνούς Πανεπιστημίου της Ελλάδος (ΔΙ.ΠΑ.Ε), από 01-12-2017 μέχρι 31-08-2019.

Πρόεδρος του Τμήματος Δασολογίας και Φυσικού Περιβάλλοντος της Σχολής Γεωτεχνικών Επιστημών του Διεθνούς Πανεπιστημίου της Ελλάδος (ΔΙ.ΠΑ.Ε), από 01-09-2019 μέχρι 31-08-2021.

Πρόεδρος του Τμήματος Δασολογίας και Φυσικού Περιβάλλοντος της Σχολής Γεωτεχνικών Επιστημών του Διεθνούς Πανεπιστημίου της Ελλάδος (ΔΙ.ΠΑ.Ε), από 01-09-2021 μέχρι 31-08-2023.

Κοσμήτορας της Σχολής Τεχνολογίας Γεωπονίας και Τεχνολογίας Τροφίμων και Διατροφής του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης, για το ακαδημαϊκό έτος 2017-2018.

Αναπληρωτής Κοσμήτορας της Σχολής Τεχνολογίας Γεωπονίας και Τεχνολογίας Τροφίμων και Διατροφής του ΤΕΙ Ανατολικής Μακεδονίας-Θράκης, για το ακαδημαϊκό έτος 2018-2019.

Διευθυντής του Προγράμματος Μεταπτυχιακών Σπουδών με τίτλο «Σχεδιασμός και Διαχείριση Αστικού Πρασίνου» του Τμήματος Δασολογίας &

Φυσικού Περιβάλλοντος του Διεθνούς Πανεπιστημίου της Ελλάδος.. (11-04-2019 έως 31-12-2020).

Αναπληρωτής Κοσμήτορας της Σχολής Γεωτεχνικών Επιστημών του Διεθνούς Πανεπιστημίου της Ελλάδος (ΔΙ.ΠΑ.Ε), για το ακαδημαϊκό έτος 2021-2022.

Πρόεδρος του Τμήματος Δασολογίας και Φυσικού Περιβάλλοντος της Σχολής Γεωτεχνικών Επιστημών του Διεθνούς Πανεπιστημίου της Ελλάδος (ΔΙ.ΠΑ.Ε), από 01-09-2024 μέχρι 12-03-2024.

Πρόεδρος του Τμήματος Δασολογίας και Φυσικού Περιβάλλοντος της Σχολής Επιστημών Γεωπονίας και Δασολογίας του Δημοκριτείου Πανεπιστημίου Θράκης (Δ.Π.Θ.), από 13-03-2014 μέχρι 31-08-2025.

8. ΕΠΙΣΤΗΜΟΝΙΚΑ / ΕΡΕΥΝΗΤΙΚΑ ΕΝΔΙΑΦΕΡΟΝΤΑ

* Ανακύκλωση παλαιού ξύλου και προϊόντων ξύλου
* Βιολογική ανθεκτικότητα του ξύλου
* Δομή ξύλου
* Έλεγχος και πιστοποίηση μοριοσανίδων και ινοσανίδων
* Θερμική τροποποίηση του ξύλου
* Συγκόλληση ξύλου και συγκολλητικές ουσίες
* Συντήρηση ξύλου και προϊόντων ξύλου
* Συγκομιδή ξύλου και άλλων δασικών προϊόντων
* Συνθετικά υλικά ξύλου και πλαστικού
* Τεχνολογία παραγωγής αντικολλητών, μοριοσανίδας, MDF και OSB
* Τεχνολογία παραγωγής σανίδων από γεωργικά υπολείμματα
* Τεχνολογία παραγωγής επίπλων
* Φυσικές και χημικές ιδιότητες ξύλου
* Χημική τεχνολογία ξύλου
* Χημική τροποποίηση και συντήρηση του ξύλου.
* Νανοτεχνολογία και επιστήμη ξύλου

9. ΠΡΟΣΘΕΤΑ ΠΡΟΣΟΝΤΑ

Η/Υ: Άριστη γνώση χειρισμού Η/Υ – Άριστη γνώση νέων τεχνολογιών & Internet

Πιστοποιητικό χρήσης στα ακόλουθα πακέτα: (i) '*Quattro 8 Spreadsheet Package*' (ii) '*Minitab 13 Statistics Package*' (iii) '*Access 97 Database Package*'. University of Wales Bangor, Information Services, Computing Laboratory.

Λειτουργικά συστήματα : *DOS (Windows, Excel, Word), Macintosh*

Στατιστικά συστήματα : *SPSS, ORIGIN, MINITAB*

Ξένη γλώσσα: Αγγλικά (άπταιστα).

10. ΕΠΙΣΤΗΜΟΝΙΚΟ & ΕΡΕΥΝΗΤΙΚΟ ΕΡΓΟ

(Συνοπτικά)

Το συνολικό επιστημονικό και ερευνητικό έργο χωρίζεται στα εξής μέρη:

(Α)	**Δημοσιεύσεις σε διεθνή περιοδικά με κρίση και citation index (indexed in Scopus)**	**(119)**
(Β)	**Δημοσιεύσεις σε διεθνή περιοδικά με κρίση**	**(10)**
(Γ)	**Δημοσιεύσεις σε ελληνικά περιοδικά με κρίση**	**(2)**
(Δ)	**Παρουσιάσεις σε διεθνή συνέδρια με κρίση**	**(49)**
(Ε)	**Δημοσιεύσεις σε διεθνή περιοδικά χωρίς κρίση**	**(9)**
(ΣΤ)	**Βιβλία / Κεφάλαια σε βιβλία**	**(5)**
(Ζ)	**Προσκεκλημένα άρθρα – ομιλίες**	**(2)**
(Η)	**Δημοσιεύσεις σε ελληνικά περιοδικά χωρίς κρίση**	**(5)**
(Θ)	**Διατριβές**	**(3)**

11. ΔΙΕΘΝΗΣ ΑΝΑΓΝΩΡΙΣΗ ΕΠΙΣΤΗΜΟΝΙΚΟΥ ΕΡΓΟΥ

(Συνοπτικά)

Σύμφωνα με το διεθνές **Journal Citation Index** (έως 02/2023, **www.scopus.com** , **www.scholar.google.gr**) οι διεθνείς βιβλιογραφικές ετεροαναφορές στο έργο του Δρ. Αντώνιου Ν. Παπαδόπουλου είναι συνολικά ***χίλιες εννιακόσιες τριάντα μία*** **(1975).**

Δείτε μέρος (Ι), οι οποίες κατανέμονται ως εξής:

- **1246** σε περιοδικά με citation index
- **52** σε ξενόγλωσσα βιβλία,
- **15** σε ελληνικά βιβλία
- **446** σε περιοδικά χωρίς citation index, πρακτικά συνεδρίων, διατριβές και διπλώματα ευρεσιτεχνίας

Σύμφωνα με το διεθνές **Journal Citation Index** (έως 02/2023, www.scopus.com, www.scholar.google.com) ο συνολικός αριθμός ***impact factor*** των εργασιών του Δρ. Αντώνιου Ν. Παπαδόπουλου είναι συνολικά **221.86** και ο ***h index*** είναι **25.**

Επίσης ο Δρ. Αντώνιος Ν. Παπαδόπουλος έχει προσκληθεί να κρίνει **396** επιστημονικές εργασίες σε **134** διαφορετικα επιστημονικού κύρους διεθνή περιοδικά. Από αυτές οι **<u>267</u>** είναι σε **<u>92</u>** διεθνούς κύρους ξενόλωσσα περιοδικά με **impact factor (SCI).**

12. ΣΥΓΓΡΑΦΗ ΔΙΔΑΚΤΙΚΩΝ ΣΗΜΕΙΩΣΕΩΝ

- Διδακτικές Σημειώσεις ‘*Χημικής Τεχνολογίας ξύλου’* (2005) Τεχνολογικό Εκπαιδευτικό Ίδρυμα Λάρισας, Παράρτημα Καρδίτσας, Τμήμα Σχεδιασμού & Τεχνολογίας Ξύλου και Επίπλου.

- Διδακτικές Σημειώσεις ‘*Επιστήμης & Τεχνολογίας Ξύλου’* (2012). Τεχνολογικό Εκπαιδευτικό Ίδρυμα Καβάλας, Παράρτημα Δράμας, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος.

- Διδακτικές Σημειώσεις ‘*Συγκομιδής Δασικών Προϊόντων*’ (2012). Τεχνολογικό Εκπαιδευτικό Ίδρυμα Καβάλας, Παράρτημα Δράμας, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος.

- Διδακτικές Σημειώσεις ‘*Σχεδιασμός & Συντήρηση Έργων Ξύλου στο Αστικό Πράσινο*’ (2016). ΠΜΣ ‘Σχεδιασμός & Διαχείριση Αστικού Πρασίνου’, Τεχνολογικό Εκπαιδευτικό Ίδρυμα Καβάλας, Παράρτημα Δράμας, Τμήμα Δασοπονίας & Διαχείρισης Φυσικού Περιβάλλοντος.

13. ΑΞΙΟΛΟΓΗΤΗΣ –ΚΡΙΤΗΣ ΕΡΓΑΣΙΩΝ

(Συνοπτικά)

Συνοπτικά

1. Academic Journal of Scientific Research
2. Advancement in Science and Technology Research/ASTR
3. Advancement in Scientific and Engineering Research/ASER
4. Advances in Forestry Letters'
5. Advances in Research
6. African Journal of Agricultural Research
7. African Journal of Biotechnology
8. African Journal of Engineering Research
9. African Journal of Food Science and Technology
10. African Journal of Microbiology Research
11. African Journal of Plant Science
12. Agricultural Science Research Journal
13. Annals of Systems Biology
14. Applied Sciences
15. Arabian Journal of Chemistry
16. Archeological Science Journal
17. Asian Journal of Agricultural Extension, Economics & Sociology
18. Basic Research Journal of Agricultural Science and Review
19. Basic Research Journal of Engineering Innovation
20. Biochemistry and Biotechnology Research

21. Bioresource Technology
22. BioResources
23. British Journal of Applied Science & Technology
24. Buildings
25. Catalysts
26. Cellulose
27. Cellulose Chemistry and Technology
28. CERNE
29. Chemical Science and Biomolecular Engineering
30. Coatings
31. Comprehnesive Research Journal of Agricultural Science
32. Construction and Building Materials
33. Current Analytical Chemistry
34. Current Journal of Applied Science and Technology
35. Energies
36. Environmental Engineering and Management Journal
37. Excellent World Journal of Agricultural Science
38. European Journal of wood and wood Products' (Holz als Roh-und Werkstoff'
39. Fire and Materials
40. Forestry Studies in China
41. Forests
42. Forests Products Journal
43. Frontiers in Chemistry
44. Herald Journal of Marketing and Business Management
45. Holzforschung

46. i Forest
47. Industrial and Engineering Chemistry Research
48. Industrial Crops and Products
49. Insects
50. Intercontinental Journal of Bio-Agricultural Science
51. International Biodeterioration & Biodegradation
52. International Journal of Agricultural Economics and Extension
53. International Journal of Agricultural Policy and Research
54. International Journal of Applied Microbiology and Biotechnology Research
55. International Journal of Ecology and Development Research
56. International Journal of Ecology and Ecosolution
57. International Journal of Educational Policy Research and Review
58. International Journal of Entomology and Nematology
59. International Journal of Food Research (IJFR)
60. International Journal of Forestry and Wood Science
61. International Journal of Molecular Sciences
62. International Journal of Physical Sciences
63. International Journal of Public and Environmental Health
64. International Journal of Journalism and Mass Communication
65. International Research Journal of Microbiology
66. International Research Journal of Agricultural and Food Sciences
67. International Research Journal of Chemistry and Chemical Sciences
68. International Research Journal of Public and Environmental Heath
69. International Scientific Research and Review
70. International Scientific Research and Innovative Studies

71. Issues in Biological Sciences and Pharmaceutical Research
72. Issues in Business Management and Economics
73. Issues in Scientific Researsch
74. Journal Environmental Biology
75. Journal of Advances in Biology & Biotechnology
76. Journal of Agricultural Science and Food Technology
77. Journal of Agricultural Science and Technology
78. Journal of Biobased Materials and Bioenergy
79. Journal of Business and Economic Management
80. Journal of Chemical Engineering and Materials Science
81. Journal of Chemistry
82. Journal of Civil Engineering and Construction Technology
83. Journal of Civil Engineering and Environmental Sciences
84. Journal of Composite Materials
85. Journal of Composite Science
86. Journal of Construction
87. Journal of Ecology and the Natural Environment
88. Journal of Forestry Research
89. Journal of Forestry Science
90. Journal of Fungi
91. Journal of Horticulture and Forestry
92. Journal of Materials: Design and Applications
93. Journal of Materials Science Research and Reviews
94. Journal of Medical and Biological Science Research
95. Journal of Metals, Materials and Minerals
96. Journal of Nanotechnology and Nanomedicine

97. Journal of Natural Fibers

98. Journal of Petroleum and Gas Engineering

99. Journal of Petroleum Technology and Alternative Fuels

100. Journal of Polymers and the Environment

101. Journal of Physical Science and Enviromental Studies

102. Journal of Renewable Energy'

103. Journal of Renewable Materials

104. Journal of Research in Environmental Science and Toxicology

105. Journal of Scientific Research and Reports

106. Journal of the Indian Academy of Wood Science

107. Journal of Tropical Forest Science

108. Journal of Wood Chemistry and Technology

109. Journal of Nano and Biomaterials

110. Maderas: Ciencia y Technologia

111. Materials

112. Materials Express

113. Merit Research Journal of Agricultural Science and Soil Sciences

114. Merit Research Journal of Enironmental Science and Toxicology

115. Merit Research Journal of Medicine and Medical Sciences

116. Molecules

117. Nanomaterials

118. NET Journal of Agricultural Science

119. NET Journal of Social Sciences

120. Numerical Heat Transfer – An International Journal of Computation and Methodology

121. Open Journal of Composite Materials

122. Open Journal of Bioinformatics and Biostatistics
123. Physical Sciences Research International (PSRI)
124. Polymer and PolymersComposites
125. Polymers
126. RCA Advances'
127. Scientific Research Essays
128. SN Applied Sciences
129. Sustainability
130. Thermochimica Acta
131. Waste and Biomass Valorization
132. Water
133. Wood Material Science and Engineering
134. Wood Science and Technology

14. ΑΛΛΕΣ ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΔΡΑΣΤΗΡΙΟΤΗΤΕΣ

<u>15. ΑΝΑΛΥΣΗ ΕΠΙΣΤΗΜΟΝΙΚΟΥ ΕΡΓΟΥ</u>

(Α) Δημοσιεύσεις σε διεθνή περιοδικά με κρίση και citation index

(A1) **Papadopoulos A.N**. and C.A.S. Hill (2001). Urea formaldehyde and PMDI isocyanate resin for particleboard: Property comparison and the effect of selected process variables on their bonding efficiency. *Journal of the Institute of Wood Science 15(5): 278-283.*

(A2) Hill C.A.S and **A.N. Papadopoulos** (2001). A review of methods used to determine the size of the cell wall microvoids of wood. *Journal of the Institute of Wood Science 15(6):337-345.*

(A3) **Papadopoulos A.N**., Hill C.A.S., Traboulay E. and J.R.B Hague (2002). Isocyanate resins for particleboard: PMDI *vs* EMDI. *Holz als Roh-und Werkstoff 60(2):81-83.*

(A4) Hill C.A.S and **A.N. Papadopoulos** (2002). The pyridine catalysed acylation of sapwood and phenolic model compounds with carboxylic acid anhydrides. Determination of activation energies and entropy of activation. *Holzforschung 56(2): 150-156.*

(A5) **Papadopoulos A.N**. and E. Traboulay (2002). Dimensional stability of OSB made from acetylated fir strands. *Holz als Roh-und Werkstoff 60(2):84-87.*

(A6) **Papadopoulos A.N.** and C.A.S. Hill (2002). The biological effectiveness of wood modified with linear chain carboxylic acid anhydrides against *Coniophora puteana*. *Holz als Roh-und Werkstoff 60(5):329-332.*

(A7) **Papadopoulos A.N.,** E. Traboulay and C.A.S. Hill (2002). One layer Experimental Particleboard from Coconut Chips -(*Cocos nucifera L.*). *Holz als Roh-und Werkstoff 60(6):394-396.*

(A8) **Papadopoulos A.N.,** C.A.S Hill and A. Gkaraveli (2003). Determination of surface area and pore volume of holocellulose and chemically modified wood flour using the nitrogen adsorption technique. *Holz als Roh-und Werkstoff 61(6):453-456.*

(A9) **Papadopoulos A.N**. and C.A.S Hill (2003). The sorption of water vapour by anhydride modified softwood. *Wood Science and Technology* 37(3-4):*221-231.*

(A10) **Papadopoulos A.N**. and J.R.B. Hague (2003). The potential for using flax (*Linum usitatissimun)* shiv as a lignocellulosic raw material for particleboard. *Industrial Crops and Products 17(2):143-147.*

(A11) **Papadopoulos A.N**. and A. Gkaraveli (2003). Dimensional stabilization and strength of particleboard by chemical modification with propionic anhydride. *Holz als Roh-und Werkstoff 61(2):142-144.*

(A12) **Papadopoulos A.N**. and C.A.S Hill (2003). The effect of process variables upon the bonding efficiency of EMDI bonded particleboards. *Journal of the Institute of Wood Science 16(3):179-181.*

(A13) Hill C.A.S and **A.N. Papadopoulos** (2004). Chemical modification employed as a means of probing the cell wall micropore of pine sapwood. *Wood Science and Technology 37(6):475-488.*

(A14) **Papadopoulos A.N**., C.A.S Hill and A. Gkaraveli (2004). Analysis of the swelling behaviour of chemically modified softwood: A novel approach. *Holz als Roh-und Werkstoff* 62(2*):107-112.*

(A15) **Papadopoulos A.N,** Hill C.A.S., A. Gkaraveli , Ntalos G., and S. Karastergiou. (2004). Bamboo chips (*Bambusa vulgaris*) as an alternative lignocellulosic raw material for particleboard manufacture**.** *Holz als Roh-und Werkstoff 62(1):36-39.*

(A16) **Papadopoulos A.N**, and G.A. Ntalos (2004). The effect of wood defects on chemical modification with acetic anhydride**.** *Holz als Roh-und Werkstoff 62(5):395-396.*

(A17) **Papadopoulos A.N.** (2004). Dimensional stability and decay resistance against *Coniophora puteana* of Scots pine sapwood due to reaction with propionic anhydride. *Journal of the Institute of Wood Science 16(4):211-214.*

(A18) Kakaras I. and **A.N. Papadopoulos** (2004). The effects of drying temperature of wood chips upon the internal bond strength of particleboard. *Journal of the Institute of Wood Science 16(5):277-279.*

(A19) **Papadopoulos A.N.** (2005). Moisture adsorption isotherms of two esterified Greek hardwoods. *Holz als Roh-und Werkstoff 63(2):123-128.*

(A20) **Papadopoulos A.N,** Avramidis S. and D. Elustondo (2005). The sorption of water vapour by chemically modified softwood: Analysis using various sorption models. *Wood Science and Technology 39(2): 99-111.*

(A21) **Papadopoulos A.N.** (2005). An investigation of the cell wall ultrastructure of the sapwood of the ten Greek wood species by means of chemical modification. *Holz als Roh-und Werkstoff 63(6):437-441.*

(A22) Ntalos G.A. and **A.N. Papadopoulos** (2005). Noise emission levels in Greek wood and furniture processing industry. *Journal of the Institute of Wood Science 17(2): 99-103.*

(A23) **Papadopoulos A.N,** Ntalos G.A. and K. Soutsas (2006). Bonding behaviour of chemically modified wood particles for board production. *Holz als Roh-und Werkstoff 64(1):21-23.*

(A24) **Papadopoulos A.N**. (2006). Pyridine-catalyst acetylation of pine wood: influence of mature sapwood *vs* juvenile wood. *Holz als Roh-und Werkstoff 64(2):134-136***.**

(A25) **Papadopoulos A.N**. (2006). Decay resistance of acetylated OSB in ground stake test. *Holz als Roh-und Werkstoff 64(3): 245-246***.**

(A26) **Papadopoulos A.N.**, G.A. Ntalos and I.A Kakaras (2006). Mechanical and physical properties of cement-bonded OSB. *Holz als Roh-und Werkstoff 64(6):517-518.*

(A27) Ntalos G.A. and **A.N. Papadopoulos**. (2006). Determination of key board properties based on cylindrical specimens**.** *Journal of the Institute of Wood Science 17(3):146-147.*

(A28) **Papadopoulos A.N**. (2007). Natural durability in ground stake test of propionylated particleboards. *Holz als Roh-und Werkstoff 65(2):171-172.*

(A29) **Papadopoulos A.N**. (2007). An investigation of the suitability of some Greek wood species in wood-cement composites manufacture. *Holz als Roh-und Werkstoff 65(3):245-246.*

(A30) **Papadopoulos A.N.** (2007). Experimental particleboard made from wood bark mixtures and bonded with EMDI resin**.** *Journal of the Institute of Wood Science 17(4):223-224.*

(A31) **Papadopoulos A.N.**, P. Duquesnoy, S.M. Cragg and A.J. Pitman (2008). The resistance of wood modified with linear chain carboxylic acid anhydrides to attack by the marine wood borer *Limnoria quadripunctata* Hothius *International Biodeterioration & Biodegradation 61(2):199-202.*

(A32) **Papadopoulos A.N.,** D. Avtzis and N. Avtzis (2008). The biological effectiveness of wood modified with linear chain carboxylic acid anhydrides against the subterranean termites *Reticulitermes flavipes. Holz als Roh-und Werkstoff 66(4):249-252.*

(A33) **Papadopoulos A.N.** (2008). The effect of acetylation on bending strength of finger jointed beech wood (*Fagus sylvatica* L.). *Holz als Roh-und Werkstoff 66(4):309-310.*

(A34) **Papadopoulos A.N.** (2008). The sorption of water vapour of wood modified with isopropyl glycidyl ether. *Wood Research 53(2): 39-44.*

(A35) **Papadopoulos A.N.** (2008). Natural durability and performance of hornbeam cement bonded particleboard. *Maderas. Ciencia y Tecnologia 10(2): 93-98.*

(A36) **Papadopoulos A.N**. (2008). Performance of cement bonded boards made from maple particles**.** *Holz als Roh-und Werkstoff 66(5):385-387.*

(A37) **Papadopoulos A.N.** (2008). Mechanical properties and decay resistance of hornbeam cement bonded particleboard. *Advances in Materials Scienceand Engineering*. Article ID 379749, 4 pages. Doi:10.1155/2008/379749.

(A38) **Papadopoulos A.N.** and G.J. Goroyias (2008). Performance of CCB (Chromium-Copper-Boron) and creosote treated fence posts after 18 years of exposure in Greece. *Journal of the Institute of Wood Science 18(1): 19-23.*

(A39) **Papadopoulos A.N**. (2009). Laboratory-made cement - bonded OSB with negligible swelling: fact or fantasy? *European Journal of Wood and Wood Products 67(1):117-118.*

(A40) **Papadopoulos A.N**. (2009). Decay resistance in ground stake test of acetylated OSB after six years of testing *European Journal of Wood and Wood Products 67(3):365-366.*

(A41) **Papadopoulos A.N**. (2009). Physical – mechanical properties and durability against basidiomycetes of particleboards made from cement and *C. betulus* L. wood particles. *Wood Research 54(2):95-100.*

(A42) **Papadopoulos A.N.**, Gkaraveli A, and T. Merou. (2009). Social trends of the people of the region of Eastern Macedonia and Thrace – Greece- about the potential of using biofuels from forest products residues. *The Environmentalist 29:333-335.*

(A43) **Papadopoulos A.N.** (2009). Decay Resistance of Cement Bonded Oriented Strand Board. *Journal of the Institute of Wood Science 18(2):*109-111.

(A44) **Papadopoulos A.N,** Gkaraveli A. and T. Merou. (2009). Utilization of biofuels from forest products residues in the periphery of Eastern Macedonia and Thrace – Greece. *Journal of the Institute of Wood Science 19(1):44-47.*

(A45) Skarvelis M. and **Papadopoulos A.N**. (2009). Classification of forest products in Greece: The case of wood flooring**.** *Journal of the Institute of Wood Science 19(2):104-108.*

(A46) Mantanis G.I and **A.N. Papadopoulos** (2010). The sorption of water vapour of wood treated with a nanotechnology compound *Wood Science and Technology 44:515-522.*

(A47) Mantanis G.I and **A.N. Papadopoulos** (2010). Reducing the thickness swelling of wood based panels by applying a nanotechnology compound *European Journal of Wood and Wood Products 68(2):237-239.*

(A48) **Papadopoulos A.N**. and G. Pougioula (2010). Mechanical behaviour of pine wood chemically modified with a homologous series of linear chain carboxylic acid anhydrides. *BioResource Technology 101(15):6147-6150.*

(A49) **Papadopoulos A.N**., Militz H. and A. Pfeffer (2010). The biological behaviours of pine wood chemically modified with linear chain carboxylic acid anhydrides against soft rot fungi. *International Biodeterioration & Biodegradation 64(5):409-412.*

(A50) **Papadopoulos A.N**., Tountziarakis P. and G. Pougioula (2010). Fire resistance of two panel products made from chemically modified raw material. *Maderas. Ciencia y Tecnologia 12 (1):53-55.*

(A51) **Papadopoulos A.N.** (2010). Durability of particleboards made from wood particles chemically modified with propionic anhydride: Results after six years in ground stake-test. *European Journal of Wood and Wood Products 68(3):353-354.*

(A52) **Papadopoulos A.N.** (2010). Chemical modification of solid wood and wood raw materials for composites production with linear chain carboxylic acid anhydrides: a brief Review. *Bioresources 5(1): 499-506.*

(A53) **Papadopoulos A.N.** (2010). Wood-straw composites bonded with various UF:EMDI formulations: The effect of fortification level. *Journal of the Indian Academy of Wood Science 7(1-2):54-57.*

(A54) **Papadopoulos A.N**. and P.Tountziarakis (2011). The effect of acetylation on the Janka hardeness of pine wood. *European Journal of Wood and Wood Products 69(3):499-500*

(A55) **Papadopoulos A.N**., Militz H. and A. Pfeffer (2011). Durability of pine wood modified with a series of linear chain carboxylic acid anhydrides against soft rot fungi. *Wood Research 56(2):147-156.*

(A56) **Papadopoulos A.N.** (2011). Sorption studies of chemically modified elm wood with acetic or maleic anhydride. *Journal of the Indian Academy of Wood Science 8(1):32-36.*

(A57) **Papadopoulos A.N**. and P.Tountziarakis (2012). Toughness of pine wood chemically modified with acetic anhydride. *European Journal of Wood and Wood Products 70:399-400*

(A58) **Papadopoulos A.N**. (2012). Natural durability of acetylated OSB in ground stake test:total decay after 102 months of testing. *European Journal of Wood and Wood Products 70:397*

(A59) **Papadopoulos A.N**. (2012). Sorption of acetylated pine wood decayed by brown rot, soft rot and white rot: different fungi – different behaviours *Wood Science and Technology 46:919-926*

(A60) Mantanis G., Terzi E., Kartal S.N. and A.N. **Papadopoulos A.N.** (2014). Evaluation of mold, decay and termite resistance of pine wood treated with zinc and copper based nanocompounds.*International Biodeterioration & Biodegradation 90:140-144*

(A61) **Papadopoulos A.N**. (2017). Moisture adsorption isotherms of yew wood (*Taxus baccata* L.). *European Journal of Wood and Wood Products 75:839-840*

(A62) **Papadopoulos A.N**. (2018). Banana chips (*Musa acuminate*) as an alternative lignocellulosic raw material for particleboard manufacture. *Maderas. Ciencia y Tecnologia 20(3):395-402.*

(A63) **Papadopoulos A.N**., Kyzas G.Z. and A.C. Mitropoulos (2019). Lignocellulosic composites from acetylated sunflower stalks. *Applied Sciences 9(4), 646; doi:10.3390/app9040646.*

(A64) **Papadopoulos A.N**., Bikiaris, D.N., Mitropoulos A.C. and G.Z. Kyzas (2019). Nanomaterials and chemical modification technologies for enhanced wood properties: A review. *Nanomaterials 9, 646; doi:10.3390/nano9040646.*

(A65) **Papadopoulos A.N.,** and G.Z. Kyzas (2019). Nanotechnology and wood science. *Interface Science and Technology 30:199-216.*

(A66) Bayani, S., Taghiyari H.R. and **A.N. Papadopoulos** (2019). Physical and Mechanical Properties of Thermally-Modified Beech Wood Impregnated with Silver Nano-Suspension and Their Relationship with the Crystallinity of Cellulose. *Polymers*, *11, 1538*; *doi:10.3390/polym11101538.*

(A67) Taghiyari H.R., Esmailpour A. and **A.N. Papadopoulos** (2019). Paint pull-off strenghth and permeability in nanosilver-impregnated and heat treated beech wood. *Coatings*, *9, 723*; *doi:10.3390/coatings9110723.*

(A68) Hassani V., Taghiyari H.R., Schmidt O., Maleki S. and **A.N. Papadopoulos** (2019). Mechanical and physical properties of Oriented Strand Lumber (OSL): The effect of fortification level of nanowollastonite on UF resin. *Polymers*, *11, 1884*; *doi:10.3390/polym11111884.*

(A69) Esmailpour A., Taghiyari H.R., Najafabadi R.M., Kalantari A. and **A.N. Papadopoulos** (2019). Fluid flow in cotton textile: Effects of wollastonite nano-suspension and *Aspergillus niger* fungus. *Processes 7, 901; doi:10.3390/pr7120901.*

(A70) **Papadopoulos A.N** and Taghiyari H.R. (2019). Innovative wood surface treatments based on nanotechnology. *Coatings 9, 866; doi.org/10.3390/coatings9120866.*

(A71) **Papadopoulos A.N.** (2020). Advances in Wood Composites. *Polymers, 12, 48; doi:10.3390/polym12010048.*

(A72) Esmailpour A., Majidi R., Taghiyari H.R., Ganjkhani M., Mohseni , M. and **A.N. Papadopoulos** (2020). Improving fire retardancy of beech wood by graphene. *Polymers, 12, 303; doi:10.3390/polym12020303.*

(A73) Karastergiou S., Foti D., Filippou V. and **A.N. Papadopoulos** (2020). Enhancement of bending strength properties of two wood species reinforced with two types of carbon fiber fabrics (CFF) and two layouts. *International Wood Products Journal 11(2):64-69.*

(A74) Taghiyari H.R., Hosseini G., Tarmian A. and **A.N. Papadopoulos** (2020). Fluid flow in nanosilver-impregnated heat-treated beech wood in different mediums. *Applied Sciences, 10, 1919, doi:10.3390/app10061919*

(A75) **Papadopoulos A.N.,** Foti D. and G.Z. Kyzas (2020). Sorption behavior of water vapor of wood treated by chitosanpolymer *European Journal of Wood and Wood Products 78:483-491.*

(A76) Taghiyari H.R., Soltani A., Esmailpour A., Hassani V., Gholipour, H. and **A.N. Papadopoulos** (2020**).** Improving Thermal

Conductivity Coefficient in Oriented Strand Lumber (OSL) using Sepiolite. *Nanomaterials*, 10, 599; *doi:10.3390/nano10040599*

(A77) Taghiyari, H.R., Majidi, R., Esmailpour, A., Samadi, Y.S., Jahangiri, A. and **A.N. Papadopoulos** (2020). Engineering Composites Made from Wood and Chicken Feather Bonded with UF resin Fortified with Wollastonite: A Novel Approach. *Polymers, 12, 857; doi:10.3390/polym12040857*

(A78) Taghiyari, H.R., Bayani, S., Miltz, H. and **A.N. Papadopoulos** (2020). Heat treatment of oine wood: Possible effect of impregnation with silver nanosuspension. *Forests, 11, 466; doi:10.3390/f11040466.*

(A79) Pizzi, A., **Papadopoulos, A.N.** and Policardi F. (2020). Wood composites and their polymer binders. *Polymers, 12, 1115; doi:10.3390/polym12051115.*

(A80) Taghiyari , H.R., Esmailpour, A., Majidi, R., Morrell, J.J., Mohammad, M., Militz, H. and **A.N. Papadopoulos** (2020). Potential ue of wollastonite as a filler in UF resin based Medium-Density Fiberboard (MDF). *Polymers 12, 1435; doi.org/10.3390/polym12071435.*

(A81) **Papadopoulos A.N.** (2020). Advances in Wood Composites II. *Polymers, 12, 1552; doi:10.3390/polym12071552.*

(A82) Mantanis, G., Lykidis, C. and **Papadopoulos A.N.** (2020). Durability of Accoya wood in ground stake testing after 10 years exposure in Greece. *Polymers, 12, 1638; doi:10.3390/polym12081638.*

(A83) Taghiyari , H.R., Hosseini, S.B., Ghahri, S., Ghofrani, M. and **A.N. Papadopoulos** (2020). Formaldehyde emission in micron-sized wollastonite-treated plywood bonded with soy flour and urea formaldehyde resin. *Applied Sciences 10, 6709; doi.org/10.3390/app10196709.*

(A84) Kyzas, G.Z. and **A.N. Papadopoulos** (2020). Modern applications of lignocellulosic materials. *Advances in Materilas Science Research* 40:1-45

(A85) **Papadopoulos A.N.** (2021). Advances in Wood Composites III. *Polymers, 13, 163; doi:10.3390/polym13010163.*

(A86) Taghiyari, H.R., Majidi, R., Arsalan, M.G., Moradiyan, A., Militz, H., Ntalos, G. and A.N. Papadopoulos (2021). Penetration of different liquids in wood based composites: The effect of adsorption energy. *Forests 12, 63.; https://doi.org/10.3390/f12010063.*

(A87) Rammou, E., Mitani, A., Ntalos, G., Koutsianitis, D., Taghiyari, H.R. and **A.N. Papadopoulos** (2021). The potential use of seaweed (*Posidonia oceanica*) as an alternative lignocellulosic raw material for wood composites manufacture. *Coatings 11, 69; https://doi.org/10.3390/coatings11010069.*

(A88) Ghahri, S., Chen, X., Pizzi, A., Hajihassani, R. and **A.N. Papadopoulos** (2021). Natural Tannins as New Cross-linking Materials for Soy-based Adhesives. *Polymers, 13, 595; doi:10.3390/polym13040595.*

(A89) Antov, P., Kristak, L., Reh, R., Sanov, V. and **A.N. Papadopoulos** (2021). Eco-Friendly Fiberboard Panels from Recycled Fibers

Bonded with Calcium Lignosulfonate. *Polymers, 13, 639; doi:10.3390/polym13040639*.

(A90) Taghiyari, H.R., Tajvidi, M., Soltani, A., Esmailpour, A., Khodadoosti, G., Jafarzadeh, H., Militz, H. and **A. N. Papadopoulos** (2021). Improving fire retardancy of unheated and heat-treated fir wood by nano-sepiolite. *European Journal of Wood and Wood Products 78:483-491*.

(A91) Koutsianitis, D., Ninikas, K., Mitani, A., Ntalos, G., Miltiadis, N., Vasilios, A., Taghiyari, H.R., **Papadopoulos, A.N**. (2021). Thermal transmittance, dimensional stability, and mechanical properties of a three-layer laminated wood made from fir and meranti and its potential application for wood-frame windows. *Coatings 11,* 304.

(A92) Taghiyari , H.R., Morrell, J.J. and **A.N. Papadopoulos** (2021). Wollastonite to improve fire properties in medium-density fiberboard made from wood and chicken feather fibers. *Applied Sciences 11, 3070*.

(A93) Taghiyari, H.R., Abassi, H., Militz, H., and **A.N. Papadopoulos** (2021). Fluid fow of polar and less polar liquids through modified poplar wood. *Forests 12, 482*.

(A94) Taghiyari, H.R., Militz, H., Antov, P., and **A.N. Papadopoulos** (2021). Effects of wollastonite on fire properties of particleboard made from wood and chicken feather fibers. *Coatings 11,* 518.

(A95) Aristri, M.A., Lubis, M.A.R., Yadav, S.M., Antov, P., **Papadopoulos, A.N.**, Pizzi, A., Fatriasari, W., Ismayati, M., Iswanto, A.H. (2021). Recent developments in lignin- and tannin-

based non-isocyanate polyurethane resins for wood adhesives—A review. *Applied Sciences 11*, 4242.

(A96) Ninikas, K., Mitani, A., Koutsianitis, D., Ntalos, G., Taghiyari, H.R., **Papadopoulos, A.N**. (2021). Thermal and mechanical properties of green insulation composites made from *cannabis* and bark residues. *Journal Composites Science 5*, 132.

(A97) Antov, P., Savov, V., Trichkov, N., Krišťák, Ľ., Réh, R., **Papadopoulos, A.N.,** Taghiyari, H.R., Pizzi, A., Kunecová, D., Pachikova, M. (2021). Properties of High-Density Fiberboard Bonded with Urea–Formaldehyde Resin and Ammonium Lignosulfonate as a Bio-Based Additive. *Polymers* 13(16):2775.

(A98) Aristri, Manggar A., Muhammad A.R. Lubis, Apri H. Iswanto, Widya Fatriasari, Rita K. Sari, Petar Antov, Milada Gajtanska, **A.N Papadopoulos** and A. Pizzi. (2021). Bio-Based Polyurethane Resins Derived from Tannin: Source, Synthesis, Characterisation, and Application. *Forests 12 (11): 1516*.

(A99) Nazerian, Morteza, Fateme Naderi, Ali Partovinia, **A.N. Papadopoulos**, and Hamed Younesi-Kordkheili. (2021). Modeling the Bending Strength of MDF Faced, Polyurethane Foam-Cored Sandwich Panels Using Response Surface Methodology (RSM) and Artificial Neural Network (ANN). *Forests 12 (11): 1514*.

(A100) Nazerian, M., Naderi, F., Partovinia, A., **Papadopoulos, A.N.** and Younesi-Kordkheili, H. (2022). Developing ANFIS-based models to predict bending strength of polyurethane foam-cored sandwich panels. *Part L: Journal of Materials: Design and Applications 236(1):3-22.*

(A101) Taghiyari, H.R., Esmailpour, A., Majidi, R., Hassani, H., Mirzaei, R.A., Bibalan, O.F. and **A. N. Papadopoulos** (2022). The effect of silver and copper nanoparticles as resin fillers on less- studied properties of UF based particleboards. *Wood Material Science & Engineering* 17(5):317-327.

(A102) Ngofa, O.N., Liakos, E., **Papadopoulos, A.N.** and G.Z. Kyzas (2022). Activated carbon from bamboo and banana wood fibers as adsorbent materials for the removal of oil samples. *Biointerface Research in Applied Chemistry 12(2):2701-2714.*

(A103) Foti, D., Voulgaridou, E., Karastergiou, S., Taghiyari, H.R. and **Papadopoulos, A.N.** (2022). Physical and Mechanical Properties of Eco-friendly Composites made from Wood Dust and Recycled Polystyrene. *Journal of Renewable Materials 10(1):75-88.*

(A104) Lubis, M.A.R., Labib, A., Sudarmanto, Akbar, F., Nuryawan, A., Antov, P., Kristak, L., **Papadopoulos, A.N.,** Pizzi, A. (2022). Influence of Lignin Content and Pressing Time on Plywood Properties Bonded with Cold-Setting Adhesive Based on Poly (Vinyl Alcohol), Lignin, and Hexamine. *Polymers 14*, 2111.

(A105) Nazerian, M., Karimi, J., Torshizi, H.J., **Papadopoulos, A.N.,** Hamedi, S., Vatankhah, E. (2022). An Improved Optimization Model to Predict the MOR of Glulam Prepared by UF-Oxidized Starch Adhesive: A Hybrid Artificial Neural Network-Modified Genetic Algorithm Optimization Approach. *Materials 15*, 9074.

(A106) Nazerian, M., Kashi, H.R., Rudi, H., **Papadopoulos, A.N.,** Vatankhah, E., Foti, D., Kermaniyan, H. (2022). Comparison of the Estimation Ability of the Tensile Index of Paper Impregnated by UF-Modified Starch Adhesive Using ANFIS and MLR. *Journal Composites Science 6*, 341.

(A107) Nazerian, M., Akbarzade, M., Ghorbanezdad, P., **Papadopoulos, A.N**., Vatankhah, E., Foti, D., Koosha, M. (2022). Optimal Modified Starch Content in UF Resin for Glulam Based on Bonding Strength Using Artificial Neural Network. *Journal Composites Science 6*, 279.

(A108) Dafni, F., Karastergiou, S., **Papadopoulos, A.N.** (2022). Cold Water Immersion Pretreatment of Post-Consuming Particleboards for Wood Chips Recovery by the Hydromechanical Process. *Journal Composites Science 6*, 105.

(A109) Ninikas, K., Tallaros, P., Mitani, A., Koutsianitis, D., Ntalos, G., Taghiyari, H.R., **Papadopoulos, A.N.** (2022). Thermal Behavior of a Light Timber-Frame Wall vs. a Theoretical Simulation with Various Insulation Materials. *Journal Composites Science 6*, 22.

(A110) Čabalová, I., Výbohová, E., Igaz, R., Kristak, L., Kačík, F., Antov, P., and **A.N. Papadopoulos** (2022). Effect of oxidizing thermal modification on the chemical properties and thermal conductivity of Norway spruce (*Picea abies* L.) wood. *Wood Material Science & Engineering* 17(5):366-375.

(A111) Kristak, L., Antov, P., Bekhta, P., Lubis, M.A.R., Iswanto, A.H., Reh, R., Sedliacik, J., Savov, V., Taghiyari, H.R., **Papadopoulos, A.N.,** Pizzi, A. and A. Hejna (2022). Recent progress in ultra-low formaldehyde emitting adhesive systems and formaldehyde scavengers in wood-based panels: a review. *Wood Material Science & Engineering*, DOI: 10.1080/17480272.2022.2056080.

(A112) Nazerian, M., Akbarzadeh, M., **Papadopoulos, A.N.** (2023). Comparative Analysis of ANN-MLP, ANFIS-ACO_R and MLR Modeling Approaches for Estimation of Bending Strength of Glulam. *Journal Composites Science 7*, 57.

(A113) **Papadopoulos, A.N.** (2023). Nanotechnology and wood science. *Nanomaterials 13, 691.*

(A114) Nazerian, M., Naderi, F. and **Papadopoulos, A.N.** (2023). Performance evaluation of the improved ANFIS approach using the ACOR, PSO, DE and GA for predicting the bonding strength of Glulam adhered by the modified soy protein-MUF resin adhesive. *Journal Composites Science 7*, 93.

(A115) Nazerian, M., Naderi, F. and **Papadopoulos, A.N.** (2023). Application of the artificial neural network to predict the bending strength of the engineered laminated wood produced using the hydrolyzed soy protein-melamine urea formaldehyde copolymer adhesive. *Journal Composites Science 7*, 206.

(A116) Masssijaya, S.Y., M.A.R. Lubis , R.C., Nisa, Nurhamyah, Y., Nugroho, P., Antov, A., Hua, L.S.., **A.N. Papadopoulo**s, Kusumah, S.S. and Karlinasari, L. (2023). Utilization of Spent Coffee Grounds as a Sustainable Resource for The Synthesis of Bioplastic Composites with Polylactic Acid, Starch, and Sucrose. *Journal Composites Science 7,* 512.

(A117) Aristri, M.A., Sari, K.R., M.A.R., Lubis, Laksana, R.P.B., Antov, P., Iswanto, H.A., Mardawati, E., Lee, S.U., Savov, V., Kristak, L., and **A.N. Papadopoulos** (2023). Eco-Friendly tannin-based non-isocyanate polyurethane resins for the modification of ramie (*Boehmeria nivea* L.) fibers. *Polymers*, *15*, 1492.

(A118) Anggini, A.W., M.A.R., Lubis, Sari, K.R., **A.N. Papadopoulos,** Antov, P., Iswanto, H.A., Lee, S.U., Mardawati, E., Kristak, L., and I. Juliana (2023). Cohesion and adhesion performance of tannin-glyoxal adhesives at different formulations and hardener types for bonding particleboard made of areca (*Areca catechu*) leaf sheath. *Polymers*, *15*, 3425.

(A119) Maulana, S., Wibowo, E.S., Mardawati, H.,Iswanto, H.A., **A.N. Papadopoulos** and M.A.R., Lubis (2024). Environmentally friendly, sustainable, and high-performance bio-polyurethane adhesives derived from vegetable oils – A critical review. *Polymers*, *16*, 1613.

→ **Συνολικές δημοσιεύσεις: εκατόν δέκα εννέα (119)**

(B) Δημοσιεύσεις σε διεθνή περιοδικά με κρίση

(B1) **Papadopoulos, A.N.** (2001). Swelling, cell wall porosity and chemical modification of wood. *Journal of the Institute of Wood Science 15(6):347.*

(B2) Ntalos GA, **Papadopoulos AN,** Tantos VA and IG Chouliaras (2003). Treatment of MSW landfill leachate by electrochemical oxidation. *Journal of International Research Publications* Bulgaria, Science Invest LTD., branch Bourgas, Vol. IV, Issue Technomat & Infotel – Matarials, Methods and Technology, pp 1-5.

(B3) **Papadopoulos A.N.** (2006). Decay resistance of cement bonded Oriented Strand Board. *Bioresources 1(1): 62-66.*

(B4) **Papadopoulos A.N.** (2006). Chemical modification of pine wood with propionic anhydride: Effect on decay resistance and sorption of water vapour. *Bioresources 1(1): 67-74.*

(B5) **Papadopoulos A.N.** (2006). Property comparisons and bonding efficiency of UF and PMDI bonded particleboards as affected by key process variables. *Bioresources 1(2):201-208.*

(B6) **Papadopoulos A.N**., Takos I and D. Emmanouloudis. (2007). The sorption of water vapour of elm wood chemically modified with acetic or maleic anhydride. *Journal of International Research Publications* Bulgaria, Science Invest LTD., branch Bourgas, Vol. 1, Issue Technomat & Infotel – Materials, Methods and Technology, pp 115-123.

(B7) **Papadopoulos A.N**. (2007). The application of various resin systems in the manufacture of wood-straw composites. *Journal of International Research Publications* Bulgaria, Science Invest LTD., branch Bourgas, Vol. 2, Issue Technomat & Infotel – Materials, Methods -and Technology, pp 98-103.

(B8) **Papadopoulos A.N**. (2007). Physical-mechanical properties and decay resistance of *Acer platanoides L.* cement bonded particleboards. *Journal of International Research Publications* Bulgaria, Science Invest LTD., branch Bourgas, Vol. 2, Issue Technomat & Infotel – Materials, Methods -and Technology, pp 81-87.

(B9) **Papadopoulos A.N. and G.I. Mantanis** (2012). Vapour sorption studies of Belmadur wood. *Advances in Forestry Letters 1(1):1-6.*

(B10) **Papadopoulos A.N.,** Mantanis G.I., Katsinikas K. and M. Michael (2013). Formaldehyde in indoor air of new apartments in Drama, Greece. *Advances in Forestry Letters 1(1):1-6.*

→ **Συνολικές δημοσιεύσεις: δέκα (10)**

(Γ) Δημοσιεύσεις σε ελληνικά περιοδικά με κρίση

(Γ1) **Παπαδόπουλος Α.Ν.**, Σ.Π. Καραστεργίου, Νταλός Γ.Α. και Γ.Ι. Μαντάνης (2004). Θερμική τροποποίηση του ξύλου: Μια νέα τεχνική για ξύλο με βελτιωμένες ιδιότητες. *Γεωτεχνικά Επιστημονικά Θέματα Σειρά ΙΙ, 15(1): 53-60.*

(Γ2) **Παπαδόπουλος Α.Ν.** (2008). Μηχανικές – υγροσκοπικές ιδιότητες και φυσική ανθεκτικότητα σύνθετης πειραματικής πλάκας από τσιμέντο και ξυλοτεμαχίδια σφενδάμου (*Acer platanoides* L.). *Γεωτεχνικά Επιστημονικά Θέματα Σειρά ΙΙ, 19(2): 24-30.*

→ **<u>Συνολικές δημοσιεύσεις: δύο (2)</u>**

(Δ) Παρουσιάσεις σε διεθνή συνέδρια με κρίση

(Δ1) **Papadopoulos A.N**. (2000). Urea formaldehyde and isocyanate resins: Property comparisons. *Proceedings of the 4th European Panel Products Symposium*. Llandudno, Wales, U.K. pp: 279-283.

(Δ2) **Papadopoulos A.N.** (2001). Bonding efficiency of UF and EMDI bonded particleboards as affected by mat moisture and wax content. *Proceedings of the 5th European Panel Products Symposium*. Llandudno, Wales, U.K. pp: 277-279.

(Δ3) Kakaras J., **Papadopoulos A.N**., Goroyias G., Hale M.D. and M.C. Breese (2001). The effect of 18 years exposure on toughness of treated pine fence posts in Greece. *Proceedings of the 5th European Panel Products Symposium*. Llandudno, Wales, U.K. pp: 298-302.

(Δ4) **Papadopoulos A.N**., C.A.S Hill and M.D. Hale (2001). Efficacy of linear chain linear chain carboxylic acid anhydrides as wood protection chemicals. *Proceedings of the 5th European Panel Products Symposium*. Llandudno, Wales, U.K. pp: 288-292.

(Δ5) **Papadopoulos A.N**. and C.A.S Hill (2001). The biological effectiveness of wood modified with linear chain carboxylic acid anhydrides against brown rot fungi. *Proceedings of the International Conference: FOREST RESEARCH: a challenge for an integrated European approach*. Thessaloniki, Greece, pp: 811-816.

(Δ6) **Papadopoulos A.N**., M.D. Hale and C.A.S Hill (2002). Efficacy of linear chain carboxylic acid anhydrides as wood protection chemicals. *International Research Group on Wood Preservation.* Cardiff, Wales, U.K. (Document No. IRG/WP 02-30295).

(Δ7) Kakaras J., Goroyias G., **Papadopoulos A.N**. and M.D. Hale. (2002). Observation on the performance of CCB and creosote treated fence posts after 18 years of exposure in Greece. *International Research Group on Wood Preservation.* Cardiff, Wales, U.K. (Document No. IRG/WP 02-30288).

(Δ8) **Papadopoulos A.N**. and J. Kakaras (2002). Bonding efficiency of UF and EMDI bonded particleboards as affected by mat moisture and wax content. *Proceedings of the 4th International Wood and Natural Fibre Composites Symposium.* Kassel, Germany. pp: 47:1-47:3.

(Δ9) **Papadopoulos A.N.** and J.A. Kakaras (2002). Bonding efficiency of UF and EMDI bonded particleboards as affected by platen temperature. *Proceedings of the 6th European Panel Products Symposium.* Llandudno, Wales, U.K. pp: 1-3.

(Δ10) Kakaras A.J. and **A.N. Papadopoulos** (2002). The effect of drying temperature of wood chips on the internal bond strength of particleboard. *Proceedings of the 6th European Panel Products Symposium.* Llandudno, Wales, U.K. pp: 18-20.

(Δ11) **Papadopoulos A.N**. and G. Ntalos (2002). EMDI isocyanate resin for particleboard: The effect of process variables on its bonding efficiency. *Proceedings of the International Symposium* on *Wood based Materials-Wood Composites and Chemistry.*

Proceedings: Symposium Wood kplus- Cost action E13 Workshop, Vienna, Austria. pp: 41-44.

(Δ12) Hill C.A.S., M.D. Hale, M.R. Farahani, S. Forster, E.D. Suttie, D.L. Jones, and **A.N. Papadopoulos** (2003). Decay of Anhydride Modified Wood. *Proceedings of the 1st European Conference on Wood Modification.* Ghent, Belgium. Pp: 143-152.

(Δ13) Ntalos, G., **Papadopoulos A.N**., Karastergiou, S., Mantanis, G. and J. Kakaras (2003). Dimensional stability and decay resistance against *Coniophora puteana* of Scots pine sapwood due to reaction with propionic anhydride. *Bulgarian Academy of Sciences, Forest Research Institute. Proceedings of Scientific papers.* Sofia, Bulgaria. Pp: 269-274.

(Δ14) Ntalos G., **Papadopoulos A.N**, Tantos V. and J. Chouliaras (2003). The potential using of flax and vine pruning chips as alternative lignocellulosic raw materials for particleboard manufacture. In: *Proceedings of the 5th International Symposium Technomat & Infotel*, Bourgas, Bulgaria. Pp: 145-149.

(Δ15) **Papadopoulos, A.N.** (2004). Dimensional stabilisation and strength of OSB by chemical modification with acetic anhydride. *Proceedings of the 8th World Conference on Timber Engineering*. Lathi, Finland. Pp: 5400: 23-25.

(Δ16) **Παπαδόπουλος Α.Ν.**, Καραστεργίου Σ.Π., Νταλός Γ.Α., Μαντάνης Γ.Ι. και Ι.Α. Κακαράς (2004). Θερμικά τροποποιημένη ξυλεία στην Ευρώπη: Υφιστάμενη κατάσταση-προοπτικές. *Πρακτικά 1ου Πανελληνίου Περιβαλλοντικού Συνεδρίου*. Ορεστιάδα, σελ: 418-424.

(Δ17) **Παπαδόπουλος Α.Ν.**, C.A.S. Hill και Σ.Π. Καραστεργίου (2004). Νέες τεχνολογίες στον τομέα των συνθετικών υλικών. *Πρακτικά 1ου Πανελληνίου Περιβαλλοντικού Συνεδρίου.* Ορεστιάδα, σελ: 721-725.

(Δ18) Καραστεργίου Σ.Π., Κακαράς, Ι.Α., Ράμμου Α. και **Παπαδόπουλος Α.Ν.** (2004). Υφιστάμενη κατάσταση και προοπτικές των επιχειρήσεων ξύλου-επίπλου στην περιοχή Τρικάλων- Καρδίτσας-Καλαμπάκας. *Πρακτικά 1ου Πανελληνίου Περιβαλλοντικού Συνεδρίου.* Ορεστιάδα, σελ: 729-739.

(Δ19) Καραστεργίου Σ., Βασιλείου Β., Μπαρμπούτης Ι. και **Παπαδόπουλος Α.Ν.** (2004). Μελέτη της αντοχής της κατά μήκος συγκόλλησης με δακτυλοειδής συνδέσεις (finger joint) ξυλείας οξιάς μικρών διαστάσεων για την παραγωγή επικολλητής ξυλείας. *Πρακτικά 1ου Πανελληνίου Περιβαλλοντικού Συνεδρίου.* Ορεστιάδα, σελ: 443-454.

(Δ20) Kakaras I., **Papadopoulos A.N**. and G. Goroyias (2004). Performance of fence posts treated with CCB and creosote after 18 years exposure in Greece. *Proceedings of the Uluslararasi Bor-Sempozymu.* Eskisehir, Turkey pp: 373-376.

(Δ21) Νταλός Γ.Α. και **Παπαδόπουλος Α.Ν**. (2005). Η συμβολή της τεχνολογίας σύνθετων συγκολλημένων προιόντων με μίξη ξύλου και πλαστικού στην προστασία του περιβάλλοντος. *Πρακτικά 12ου Πανελληνίου Δασολογικού Συνεδρίου.* Δράμα, σελ: 371:377.

(Δ22) **Papadopoulos, A.N.** (2005). Moisture adsorption behaviour of two acetylated Greek hardwoods. *Proceedings of the 2nd European*

Conference on Wood Modification. Gottingen, Germany pp: 155-158.

(Δ23) **Papadopoulos A.N.**, T. Merou, V Kazana and M. Lazaridou (2006). The potential for using Coconut Chips (*Cocos nucifera L.*) as a raw lignocellulosic material for composite production. *Proceedings of the 6^{th} International Wood and Natural Fibre Composites Symposium.* Kassel, Germany pp: P 12.1 – 12.3.

(Δ24) **Papadopoulos A.N.**, CAS Hill, Gkaraveli A, and T. Merou. (2006). The potential for using bamboo Chips (*Bambusa vulgaris.*) as a lignocellulosic raw material for composite manufacture. *Proceedings of the 2^{nd} International Wood Conference on Environmentally-Compatible Forest Products.* Oporto, Portugal, pp:461-464.

(Δ25) Ntalos G.A. and **A.N. Papadopoulos** (2006). Mechanical and physical properties of cement bonded OSB**.** *International Conference for Wood Resources and panel properties* Valenciα, Spain. Pp:315-319.

(Δ26) **Papadopoulos, A.N**. (2006). A new environmental friendly technology for the production of decay resistant and dimensional stable strandboard (OSB). *Proceedings of the International Conference on "Sustainable Management and Development of Mountainous and Island Areas",* Naxos, Greece. Pp: 20-23 (Volume II).

(Δ27) Gkaraveli A., Emmanouloudis D. and **Papadopoulos, A.N**. (2006). GIS Applications in Management and Mapping of Natural Ecosystems. *Proceedings of the International Conference on*

"Sustainable Management and Development of Mountainous and Island Areas" Naxos, Greece.". Pp: 234-240 (Volume II).

(Δ28) Ntalos G.A. and **A.N. Papadopoulos** (2007). OSB cement bonded structural panels**.** *International Conference on Practical Solutions for Furniture & Structural Bonding*. Cost Action E34 Larnaka, Cyprus. Pp: 95-97.

(Δ29) Gkaraveli A., Takos I., Merou T. and **A.N. Papadopoulos** (2007). Forest ecology and mapping of natural ecosystems using GIS and spatial data. *Proceedings of the 16th International Ecology and Safety Symposium Burgas, Bulgaria***.** Pp: 20-26.

(Δ30) **Papadopoulos, A.N**. and G. Pougioula (2007). Composites made of 50:50 wood: straw mixture and bonded with various UF: EMDI formulations. *Proceedings of the First International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE), Skiathos, Greece*.. Pp:2122:2126.

(Δ31) **Papadopoulos, A.N**. (2007). Laboratory production of decay resistant and dimensionally stable one layer particleboard by chemical modification with propionic anhydride. *Proceedings of the International Panel Products Symposium*, Cardiff, Wales, U.K. Pp: 225-229.

(Δ32) Skarvelis M and **A.N. Papadopoulos** (2007). Visual grading in flooring sector in Greece. *Conference on Quality control for wood and wood products*. Cost Action E53, Warsaw, Poland. Pp: 127-131.

(Δ33) Σκαρβέλης Μ. και **Α.Ν. Παπαδόπουλος** (2007). Ποιοτική ταξινόμηση δασικών προϊόντων στην Ελλάδα: Η περίπτωση του

ξύλινου δαπέδου. *Πρακτικά 13ου Πανελληνίου Δασολογικού Συνεδρίου.* Καστοριά, σελ: 230-236.

(Δ34) **Παπαδόπουλος Α.Ν.**, Πουγιούλα Γ., Τσεκούρα Δ. και Χ. Χασιωτάκη (2007). Μελέτη καταλληλότητας χρήσης τεμαχιδίων ξύλου σε μίξη με τσιμέντο ως πρώτη ύλη για την κατασκευή μοριοπλακών. *Πρακτικά 13ου Πανελληνίου Δασολογικού Συνεδρίου.* Καστοριά, σελ: 207-211.

(Δ35) **Papadopoulos A.N**. and G. Ntalos (2007). The effect of chemical modification on bonding efficiency of raw material for particleboard manufacture. *Proceedings of the 5th COST E34 International Conference on Bonding of modified wood.* Cost Action E34, Ljubljana, Slovenia. Pp: 57-60.

(Δ36) Gkaraveli A., Williams J.H. and **A.N. Papadopoulos** (2007). Identifying optimal locations for native woodland expansion and restoration: a case study of the Snowdonia National Park (UK). *Proceedings of the International Conference on Forest and Woodland History 'woodland cultures in time and space: tales from the past, messages for the future'.* Thessaloniki , Greece Pp: 19.

(Δ37) Gkaraveli A., Williams J.H. and **A.N. Papadopoulos** (2007). Recent changes in woodlands of the Snowdonia National Park (UK): driving forces and a spatial analysis. *Proceedings of the International Conference on Forest and Woodland History 'woodland cultures in time and space: tales from the past, messages for the future'.* Thessaloniki , Greece Pp: 57.

(Δ38) **Papadopoulos A.N** (2008). The effect of various wood species on bonding with cement. *Proceedings of the Final COST E34 Inernational Conference on Enhancing Bond-line Performance.* Cost Action E34, Sopron, Hungary. Pp:141-143.

(Δ39) **Papadopoulos A.N** and I.A. Kakaras (2008). Life cycle assessment and performance of posts treated with water borne preservatives and oils. *2nd International Workshop on Geoenvironment and Geotechnics – GEOENV 2008*, Milos Greece, Pp: 183-186.

(Δ40) **Papadopoulos A.N.,** A. Gkaraveli and T. Merou (2008). Utilisation of biofuels from forest products residues in the Periphery of Eastern Macedonia and Thrace – Greece**.** *Proceedings of the 17th International Ecology and Safety Symposium Burgas, Bulgaria*. Pp: 248-255.

(Δ41) **Papadopoulos A.N.,** S. Mirkou and B. Verga (2008). Noise emission levels in two sawmills in Eastern Greece. *Proceedings of the 17th International Ecology and Safety Symposium Burgas, Bulgaria*. Pp: 233-238**.**

(Δ42) **Papadopoulos A.N**. (2008). New developments in eco-composites. *Proceedings of the 17th International Ecology and Safety Symposium Burgas, Bulgaria***.** Pp: 239-247.

(Δ43) **Papadopoulos A.N.** (2008). Treatment of veneer logs for veneer production: a practical manual. *Proceedings of the 17th International Ecology and Safety Symposium Burgas, Bulgaria.* Pp: 256-263.

(Δ44) **Papadopoulos A.N.**, Karastergiou S. and G. Ntalos. (2008). Improvement of properties of selected plant fibres through chemical modification with acetic anhydride. *Proceedings of the 17th International Wood and Natural Fibre Composites Symposium.* Kassel, Germany pp: P 49.

(Δ45) **Παπαδόπουλος Α.Ν**. (2009). Χρήση χημικών ουσιών για τη βελτίωση βασικών ιδιοτήτων του ξύλου ως υλικού. *3ο Συνέδριο Πράσινης Χημείας & Βιώσιμης Ανάπτυξης.* Θεσσαλονίκη, σελ.

(Δ46) Μαντάνης Γ.Ι και **Α.Ν. Παπαδόπουλος**. (2009). Βελτίωση της διόγκωσης ξυλοπλακών μετά από επιφανειακό χειρισμό με νέο σκεύασμα νανοτεχνολογίας. *Πρακτικά 14ου Πανελληνίου Δασολογικού Συνεδρίου.* Πάτρα, σελ: 679-684.

(Δ47) Makrogianni, O.N., Zantiras, S.S., **Papadopoulos, A.N.** and G.Z. Kyzas (2019). Lignocellulosic materials for oil-spills clean-up. *5th Distance education e-learning Summer School on Wastewater and Biosolids Management, (WWSS19), Patra, Greece, 22-27 July 2019.*

(Δ48) Foti, D., Voulgaridou, E., Karastergiou, S. **Antonios N. Papadopoulos** (2020). Value-added Wood Composites Made from Waste Polystyrene as a Binder: a Review (2020). The First International Conference on "Green" Polymer Materials 2020 (CGPM 2020), 05-25 November on line. (*doi:10.3390/CGPM2020-07166*).

(Δ49) Foti, D., Voulgaridou, E., Karastergiou, S. **Antonios N. Papadopoulos** (2020). Παραγωγή και ιδιότητες πειραματικών μοριοπλακών από πριονίδι και ανακυκλωμένο πολυστυρένιο (EPS).

Πρακτικά 20ου Πανελληνίου Δασολογικού Συνεδρίου. Τρίκαλα, σελ: 679-684.

→ **Συνολικές διεθνείς παρουσιάσεις: σαράντα εννέα (49)**

(Ε) Δημοσιεύσεις σε ξενόγλωσσα περιοδικά χωρίς κρίση

(E1) **Papadopoulos A.N**. (2000). UF *vs* PMDI: Property comparisons. *The Alternate Panel Report* 1(8): 3-5.

(E2) **Papadopoulos A.N**. (2000). Composites made of 50:50 wood: straw mixture and bonded with UF: EMDI resins. *The Alternate Panel Report* 1(10): 3-4.

(E3) **Papadopoulos A.N**. (2000). Urea formaldehyde and EMDI resin. The effect of process variables. *The Alternate Panel Report* 1(11): 3-7.

(E4) **Papadopoulos A.N**. (2001). Experimental particleboard made from wood- bark mixtures and bonded with EMDI resin. *The Alternate Panel Report* 2(4): 4-6.

(E5) **Papadopoulos A.N**. (2001). Composites made of wood: flax mixtures bonded with UF resins. *The Alternate Panel Report* 2(8): 6-8.

(E6) **Papadopoulos A.N.** (2002). Composites made from Coconut Chips -(*Cocos nucifera L.*) and bonded with EMDI resin. *The Bio Products Journal* 3(7): 3-11.

(E7) **Papadopoulos A.N**. (2002). Products from non wood sources. *The Bio Products Journal* 3(8):3-12.

(E8) **Papadopoulos A.N**. (2002). Chemical modification of wood. Part 1: An introductory approach. *The Bio Products Journal* 3(9):11-13.

(E9) **Papadopoulos A.N**. (2002). Chemical modification of wood. Part 2: Definition, requirements, process parameters and proofs of bonding. *The Bio Products Journal* 3(10):4-5.

→ **Συνολικές δημοσιεύσεις: εννέα (9)**

(ΣΤ) Κεφάλαια σε βιβλία

(ΣΤ1) Ntalos G.A., Cruz P.J.S., Manikova D., Ohlmeyer M., Pacheko J. **Papadopoulos A.N.**, Pequeno J., Pizzi A., Properzi M. and M. Sernek (2008). Bonding to non-wood materials and modified wood. In: *Core document of the COST Action E34 "Bonding of Timber".*University of Natural Resources and Applied Life Sciences, Vienna. Pp: 189-196. ISSN 1681-2808.

(ΣΤ2) **Papadopoulos A.N.** and G.Z. Kyzas (2019). Nanotechnology and Wood Science. In: Kyzas G.Z. and A.C. Mitropoulos (Eds) '*Advanced low-cost separation techniques in interface science*'. Chapter 9, Elsevier, ISBN 978-012-81-4178-6, London, UK. Pp: 199-216.

(ΣΤ3) Kyzas G.Z. and **A.N. Papadopoulos** (2020). Modern Applications of Lignocellulosic Biomaterials. In *Advances in Materials Science Research (Volume 40).* Maryann C. Wythers (Editor), Nova Science Publishers, ISBN: 978-1-53617-145-7. Pp:1-45.

(ΣΤ4) **Papadopoulos A.N.** (2020). Advances in Wood Composites. Antonios N. Papadopoulos (Editor), MDPI Publishers, ISBN 978-3-03928-584-6 (Pbk), ISBN 978-3-03928-585-3 (PDF). Pp:1-212.

(ΣΤ5) **Papadopoulos A.N.** (2020). Advances in Wood Composites II Antonios N. Papadopoulos (Editor), MDPI Publishers, ISBN 978-3-03943-521-0 (Pbk), ISBN 978-3-03943-522-7 (PDF). Pp:1-224.

→ **Συνολικές δημοσιεύσεις: πέντε (5)**

(Ζ) Προσκεκλημένες ομιλίες - άρθρα

(Ζ1) **Papadopoulos, A.N**. (2007). Laboratory production of decay resistant and dimensionally stable one layer particleboard by chemical modification with propionic anhydride. *Proceedings of the International Panel Products Symposium*, Cardiff, Wales, U.K. Pp: 225-229.

(Ζ2) **Papadopoulos, A.N**. and G. Mantanis (2011). Surface treatment technologies applied to wood surfaces. *Furniture Design and Manufacturing (FDM) Asia – Solid wood and panel technology. May-June issue, pp: 36-39.*

→ **Συνολικές δημοσιεύσεις: δύο (2)**

(H) Δημοσιεύσεις σε ελληνικά κλαδικά περιοδικά χωρίς κρίση

(H1) **Παπαδόπουλος Α.Ν.** και Ι.Α. Κακαράς (2003). Θερμική τροποποίηση του ξύλου: Μια νέα τεχνική για ξύλο με βελτιωμένες ιδιότητες. *Ξύλο – Έπιπλο.* 223: 54-60.

(H2) Μαντάνης Γ.Ι και **Παπαδόπουλος Α.Ν.** (2005). Thermowood – Θερμικά τροποποιημένο ξύλο. *Επιπλέον. Τεύχος 17:94-96*

(H3) Μαντάνης Γ.Ι και **Παπαδόπουλος Α.Ν.** (2009). Kebony®: η πιο πιο κατάλληλη πρώτη ύλη για ξύλινα κουφώματα στη χώρα μας; *Επιπλέον. Τεύχος 39(4): 100-102.*

(H4) Μαντάνης Γ.Ι και **Παπαδόπουλος Α.Ν.** (2009). Plato®Wood: καινοτόμος τεχνολογία για βελτιωμένη ξυλεία *Επιπλέον. Τεύχος 40(6):100-102.*

(H5) **Παπαδόπουλος Α.Ν** και Γ.Ι Μαντάνης (2009). Accoya®Wood: καινοτόμος τεχνολογία για βελτιωμένη ξυλεία *Επιπλέον. Τεύχος 43:100-104.*

→ **Συνολικές δημοσιεύσεις: πέντε (5)**

(Θ) Διατριβές

(Θ1) **Παπαδόπουλος Α.Ν**. Τροφική Συμπεριφορά του Λευκοπελαργού στη Μακεδονία και Θράκη. Προπτυχιακή Διατριβή, Τεχνολογικό Εκπαιδευτικό Ίδρυμα Δράμας, Παράρτημα Καβάλας, Τμήμα Δασοπονίας

(Θ2) **Papadopoulos A.N.** The effect of selected process variables on the mechanical properties and dimensional stability of particleboard. M.Sc. Thesis. School of Agricultural and Forest Sciences, University of Wales, Bangor.

(Θ3) **Papadopoulos A.N.** Swelling, cell wall porosity and chemical modification of wood. Ph.D. Thesis. School of Agricultural and Forest Sciences, University of Wales, Bangor.

→ **Συνολικές δημοσιεύσεις: τρεις (3)**

16. ΔΙΕΘΝΗΣ ΑΝΑΓΝΩΡΙΣΗ ΕΠΙΣΤΗΜΟΝΙΚΟΥ ΕΡΓΟΥ

(Αναλυτικά)

Α: Ετεροαναφορές σε περιοδικά

Για την εργασία μου με τίτλο: A review of methods used to determine the size of the cell wall microvoids of wood. Journal of the Institute of Wood Science 15(6):337-345 72 βιβλιογραφικές αναφορές

1. Hill, CAS (2002). How does the chemical modification of wood provide protection against decay fungi? *Workshop COST Action E22 'Environmental friendly optimisation of wood protection'*. Finland Pp: 1-8.
2. Schwarze FWMR and M. Spycher (2005). Resistance of thermo-hygro-mechanically densified wood to colonisation and degradation by brown-rot fungi. *Holzforschung 59 (3): 358-363.*
3. Lehtonen LK and TJ Dyer (2005). Light-scattering coefficient as a measure of specific surface area in mechanical pulp laboratory sheets. *Paperi ja Puu/Paper and Timber 87 (8): 517-524.*

4. Skyba O. and S. Schwarze (2005). Resistance of thermo-hydro-machanically densified wood to colonisation and degradation by brown rot fungi. *Proceedings of the 2nd European Conference on Wood Modification.* Gottingen, Germany. Pp: 61-64.

5. Almeida Gianna (2006). Influence de la structure du bois sur ses properties physico-machaniquesa des teneurs en humidite elevees. *Doctorat en sciences (Ph.D) Dissertation,* Universite of Laval.

6. Weigenand O. (2006). Wood modification with different types of silicon compounds. *Ph.D Thesis,* Georg-August Universitat Gottingen, Germany.

7. Almeida, G. (2006). Influence de la structure du bois sur ses propriertes physic-mechaniques a des teneurs en humidite elevees. *Philosophiae doctor (Ph.D) Thesis*, university of Laval, Spain.

8 Jeremic D, Cooper P and P Brodersen (2007). Penetration of poly (ethylene glycol) into wood cell walls of red pine . *Holzforschung 61 (3):272-278.*

9. Weigenand O, Militz M, Tingaut P, Sèbe G, de Jeso B and M Carsten (2007). Penetration of amino-silicone micro- and macro-emulsions into Scots pine sapwood and the effect on water-related properties. *Holzforschung 61 (1): 51-59.*

10 Schwarze F.W.M.R. (2007). Wood decay under the microscope. *Fungal Biology Reviews 21 (4): 133-170.*

11. Mai C, Weigenatd O, Ghosh S and H. Militz (2007). Effects of wood treatment with amino-silicone emulsions on different material properties. *Proceedings of the 3rd European Conference on Wood Modification.* Cardiff, Wales. Pp: 105-113.

12. Jungnikl K, Paris O, Fratzl P and I. Burgert (2008). The implication of chemical extraction treatments on the cell wall nanostructure of softwood. *Cellulose 15:407-418.*

13. Ding WP, Koubaa A, Chaala A, Belem T and C. Krause (2008). Relationship between wood porosity, wood density and methyl methacrylate impregnation rate. *Wood Material Science and Engineering 3(1-2):62-70.*

14. Pfriem A., Zauer M. and A. Wagenfuhr (2009). Alteration of the pore structure of spruce (*Picea abies* (L.) Karst.) and maple (*Acer pseudoplatanus* L.) due to thermal treatment as determined by helium pycnometry and mercury intrusion porosimetry. *Holzforschung 63(1): 94-98.*

15. Dieste A., Krause A., Mai C., Sebe G., Grelier S. and H. Militz (2009). Modification of *Fagus sylvatica* L. with 1,3-dimethylol-4,5- dihydroxy ethylene urea (DMDHEU). Part 2: Pore size distribution determined by differential scanning calorimetry. *Holzforschung 63(1): 89-93.*

16. Verma P., Junga U., Militz H. and C. Mai (2009). Protection mechanisms of DMDHEU treated wood against white and brown rot fungi. *Holzforschung 63(3): 371-378.*

17. Ding P.W.D. (2009). Study of physical and mechanical properties of hardened hybrid poplar wood. *Doctorate Thesis, Universite du quebec en Abitibi-Temiscamingue.*

18. Hill CAS., Norton A. and G. Newman (2009). The water vapor sorption behavior of natural fibers. *Journal of Applied Polymer Science 112: 1524-1537.*

19 Hill CAS., Norton A. and G. Newman (2010). The water vapor sorption behaviour of flax fibres – Analysis using the parallel expodential kinetics and

determination of the activation energies of sorption. *Journal of Applied Polymer Science 116(4):2166-2173.*

20. Lee MJ and P. Cooper (2010). Alkyl dimethyl benzyl ammonium chloride adsorption mechanism of wood. *Cellulose 17:1127-1135.*

21. Xie Y., Hill CAS., Sun D., Jalaludin Z., Wang O. and C. Mai (2011). Effects of dynamic aging (hydrolysis and condensation) behavior of organofunctional silanes in the aqueous solution on their penetrability into the cell walls of wood. *BioResources 6(3): 2323-2339.*

22. Wanj J., Muckopadhyahy P. and P. Morris (2011). Wood sorption, capillary condensation and their implications for building envelopes of wood construction. *Proceeding of the 13th Canadian Conference on Building Science and Technology*. Winnipeg, Manitoba, Canada. Pp. 1-13.

23. Lee, L.M. (2011). Adsorption of alkaline copper quat components in wood-mechanisms and influencing factors. *Ph.D Thesis*, Yniversity of Toronto, Canada.

24. Mahr M.S., Hubert T., Schartel B., Baht H., Sabel M. And H. Militz (2012). Fire retardancy effects in single and double layered sol-gel derived TiO2 ans SiO2 wood composites. *Journal Sol.-Gel Science Technology 64:452-464.*

25. Unger B., Bucker M., Reinsch S., Hubert T. (2013). Chemical aspects of wood modification by sol-gel-derived silica. *Wood Science and Technology 47:83-104.*

26. Ishak M.R., Leman Z., Sapuan S.M., Rahman M.Z.A. and U.M.K. Anwar (2013). Impregnation modification of sugar palm fibers with phenol formaldehyde and unsaturated polyester. *Fibers and Polymers 14(2): 250-257.*

27. Grigsby W.J., Kroese H. and E.A. Dunningham (2013). Characterisation of pore size distributions in variously dried *Pinus radiata*: analysis by thermoporosity. *Wood Science and Technology* 47(4):737-747.

28. Yilgor N., Dogu D., Moore R., Terzi E. and S.N. Kartal (2013). Evaluation of fungal deterioration in *Liquidampar orientalis* Mill heartwood by FT-IR and light microscopy. *BioResources 8(2):2805-2826.*

29. Ghosh S.C, Militz H. and C. Mai (2013). Modification of Pinus sylvestris wood with quat and amino silicones of different chain lengths. *Holzforschung 67(4): 421-427.*

30. Pries M., Wagner R., Kaesler K., Militz H. and C. Mai (2013). Effect of short chain silicones bearing different functional groups on the resistance of pine and beech against decay fungi. *Holzforschung 67(4): 447-454.*

31. Pries M. (2013). Treatment of solid wood with silanes, polydimethylsiloxanes and silica sols. *Ph.D Thesis, George-August University, Gottingen, Germany.*

32. Bucker M., Jager C., Pfeifer D. and B. Unger (2014). Evidence of Si-O-C in cellulosic materials modified by sol-gel-derived silica. *Wood Science and Technology 48(5):1033-1047.*

33. Wang J., Mukhopadhyaya P. and P. Mprris (2014). Sorption and capillary condensation in wood and the moisture content of red pine. *Journal of Building Physics 37(4):327-347.*

34. Popescu C.M., Hill C.A.S., Anthony R. and G. Ormondroyd (2014). Equilibrium and dynamic vapour sorption properties of biochar derived from apple wood. *Polymer Degradation and Stability* 49(5):2362-2371.

35. Lee S., Lum W., Zaidon A. and M. Maminski (2015). Microstructural, mechanical and physical properties of post heat treated melamine-fortified

urea formaldehyde-bonded particleboard. *European Journal of Wood and Wood Products 73(5):607-616.*

36. Popescu C., Hill CAS, Anthony R., Ormondroyd G. and S. Curling (2015). Equilibrium and dynamic vapour sorption properties of biochar derived from apple wood. *Polymer Degradation and Stability 111:263-268.*

37. Donaldson L., Krose H., Hill S. and R. Franich (2015). Detection of wood cell wall porosity using small carbohydrate molecules and confocal fluorescence microscopy. *Journal of Microscopy 1:1-9.*

38. Biziks V., Bicke S. and H. Militz (2015). Penetration of phenol formaldehyde resion into beech wood studied by light microscopy. *The International Research Group on Wood Protection.* Chile, IRG/WP 15-20558.

39. Parmak E.D.S. (2016). Fabrication of microstructured polymers by a simple biotemplate embossing method and their characterization. *Materials Testing 58(3):246-251.*

40. Biziks V., Bicke S. and H. Militz (2016). Decay resistance of beech wood and plywood treated with different type of PF resins. *The International Research Group on Wood Protection.* Portugal, IRG/WP 15-20558.

41. Huang P., Chang W., Ansell M., John C and A. Shea (2017). Porosity estimation of *Phyloostachs edulis* by computed tomography and backscattered electron imaging. *Wood Science and Technology* 51(1):11-27.

42. Kielman B.C., Militz H. and C. Mai (2016), The effect of combined melamine resin colouring-agent modification on water related properties of

43. Skyba O. (2008). Durability and physical properties of thermo-hygro-mechanically densified wood. *Ph.D Thesis*, ETH Zurich, University.

44. Jeremic D., Goacher R., Yan R., Karunakaran C. and E. Master (2014). Direct and up close views of plant cell walls show a leading role for lignin-modifying enzymes on ensuing xylanases. *Biotechnology for biofuels DOI10.1186, pages 1-12.*

45. Fourmentin M. (2015). Impact de la repartition et des transferts deau sur les proprieties des materiaux de construction a base de chaux formuless. *Ph.D Thesis*, Universite Paris, France.

46. Lehtonen L.K. (2004). Elucidating the nature of bonding in mechanical pulps. *Ph.D Thesis,* Institute of Papera Science and Technology, Atlanta, Georgia, USA.

47. Belhadef W. (2016). Developpment de granules energetiques ameliorees a base de bouleau blanc et de grains de canola. *Ph.D Thesis, Universite du Quebec en Abitibi, Canada.*

48. Aigner N. (2016). A mesoscale model of the S2 secondary wood cell wall. *Ph.D Thesis*, University ETH, Zurich.

49. Duarte S., L. Pin, Carlos A. and R. Perre (2017). Alteration of physic-mechanical characteristics endocarp by isothermal pyrolysis in the range of 250 to 550 ^{o}C. *Journal of Analytical and Applied Pyrolysis 126:88-98.*

50. Yelle D. (2017). Solution state NMR analysis of hydroxymethylated resorcinol cured in the presence of crude milled wood lignin from Acer saccarum. *Journal of Applied Polymer Science DOI 10 1002/APP 45398.*

51. Fu Q. (2018). Wood nanotechnologies for transparency, fire retardancy and liquid separation. *Ph.D Thesis*, KTH Royal Institute of Technology, Stockholm, Sweden.

52. Segmehl J., Lauria A., Keplinger T. and I. Burgert (2018). Trackinh of short distance transport pathways in biological tissues by ultra-small nanoparticles. *Frontiers in Chemistry, volume 6, article 28, pp 1-9.*

53. Shi J. and S. Avramidis (2018). Dried cell wall nanopore configuration of Douglas fir, western red cedar and aspen heartwoods. *Wood Science and Technology 52:1025-1037.*

54. Shabir (Mahr) Muhammad (2017). Wood modification with titania and silica based precursors. *Ph.D. Thesis*, University of Gottingen, Germany.

55. Delannoy G., Marceau S. and F. Farcas (2018). Aging of hemp shiv used for concrete. *Materials and Design* 160: *752-762.*

56. Donaldson LA, Cairns M. and S. Hill (2018). Comparison of micropore distribution in cell walls of softwood and hardwood xylem. *Plant Physiology 178:1142-1153.*

57. Kruyeniski J., Ferreira P. and M. Area (2019). Physical and chemical characteristics of pretreated slash pine sawdust influence its enzymatic hydrolysis. *Industrial Crops and Products 130:528-536.*

58. Giacomozzi D., Joustimo O. and S. Zelinka (2019). The processing of *pinus radiate*: pore size distribution changes in the cell wall structure studied by pressure plate technique and mercury intrusion porosimetry. *BioResources 14(2):2827-2841.*

59. Ahmad M.R., Chen B., Haque A., and S.F. Shah (2019). Development of a sustainable and innovant hydrothermal bio-composite featuring the enhanced mechanical properties. *Journal of Cleaner Production*

60. Broda M., Curling S., Spear m. and C.A.S. Hill (20190. Effect of methytrimethoxylane impregnation on the cell wall porosity and water vapour

sorption of archeological waterlogged oak. *Wood Science and Technology 53:703-726.*

61. Ahmad M., Haque M. and S. Farasra (2019). Develoment of a sustainable and innovant hydrothermal bio-composite featuring the enhanced mechanical properties. *Journal of Cleaner Production*

62. Ringman R., Bech G. and A. Pilgard (2009). The importance of moisture for brown rot degradation of modified wood: A critical discussion. *Forests 10, 55, doi:10.3390.*

63. Balfas S. (2019). Use of organic resins for wood modification. *International Conference on Forest Products*. 359, doi:10.1008/1755-1345/359/1/012001.

64. Jakes, J. Hunt C., Zelinka S., Ciesielski P. and N. Plaza (2019). Effects of moisture on diffusion in unmodified wood cell walls: a phenomelogiocal polymer science approach. *Forests, 10, 1084.*

65. Alfeiri, P.V., Mohamed C S. and G. Canosa (2019). Wood protection against biotic and abiotic deterioration by the use of silane/nanoparticle system. 4th congreso Latinoamericano de Estructuras de Maderas. CÓDIGO: 4609791.

66. Yang, D., Wei, K., Li, J., Peng, G. and M. Tyree (2020). Inferring the role of pit menbarnes in solute transport from solute exclusion studies in living conifer systems. *Journal of Experimental Botany*

67. Kirker, G., Brischke, C., Passarini, l. and S. Zelinka (2020). Salt damage in wood controlled laboratory exposures and mechanical property measurements. *Wood and Fiber Science 52(1):44-52.*

68. Zhao, Z., Zhang, M., Liu, W. and Li. Q. (2020). Measurement of pore sixed microporous-mesoporous materials by time-domain nuclear magnetic resonance. *BioResources 15(1):1407-1418.*

69. Donaldson L. (2019). Wood cell wall ultrastructure: The key to understanding wood properties and behavior. *International Association of Wood Anatomists 40(4):645-672.*

70. Nopens, M., Sazama U. and M. Froba (2020). Determination of mesopores in the wood cell wall at dry and wet state. *Scientific Reports 10:9543.*

71. Bjorklund, J., Fonti, M., Fonti, P., Bulce, J. and G. Arx (2021). Cell wall dimensions reign supreme: cell wall composition is irrelevant for the temperature signal of latewood density-blue intensity in Scots pine. *Dendrochronologia 65:125785.*

72. Biziks, V., Bicke, S., Koch, G. and H. Militz (2021). Effect of phenol formaldehyde resion oligomer size on the decay resistance of beech wood. *Holzforschung*

Για την εργασία μου με τίτλο: The pyridine catalysed acylation of sapwood and phenolic model compounds with carboxylic acid anhydrides. Determination of activation energies and entropy of activation. Holzforschung 56(2): 150-156 20 βιβλιογραφικές αναφορές

1. Minato K and Y Ito (2004). Analysis of the factors influencing the acetylation rate of wood. *Journal of Wood Science 50 (6):519-523.*

2. Minato K., Shimizu R. and S. Kawaguchi (2007). Contribution of lignin to the reactivity of wood in chemical modifications I: Influence of delignification on acetylation . *Journal of Wood Science 53 (3):218-222.*

3. Padney KK. and T. Vuorinen (2007). Kinetic studies on etherification of some lignin model compounds. *Proceedings of the 3rd European Conference on Wood Modification.* Cardiff, Wales. Pp: 57-64.

4. Pandey K.K. and T. Vuorinen (2008). Study of kinetics of reaction of lignin model compounds with propylene oxide. *Holzforshung 62(2):169-175.*

5. Obataya E and K. Minato (2009). Potassium acetate-catalysed acetylation of wood: reaction rates at low temperatures. *Wood Science and Technology 43:405-413.*

6. Peydecastaing J. (2008). Chemical modification of wood by mixed anhydrides. *Ph.D Thesis.* Universite de Toulouse, France.

7. Pignolet M.O. (2008). Optimisation de la durabilite de bois d' oeuvre (classe d' emploi 4) a l ;aide d ; anhydrides alkenyles succiniques d ; origine vegetale. *Ph.D Thesis.* Universite de Toulouse, France.

8. Hill C.A.S., S.F. Curling, J.H. Kwon and V. Marty (2009). Decay resistance of acetylated and hexanoylated hardwood and softwood species exposed to *Coniophora puteana*. *Holzforshung 63(5):619-625.*

9. Ysambertt F., Gonzalez T., Delgado N., Bravo B., Chavez G., Caceres A., Marqez N. and J. Bullon (2009). Propiedades tensoactivas de la lignin extraida del locor negro modificada por reacciones asistidas por microndas. *Revista Cubana de Quimica 21(3):65-75*

10. Hill C.A.S., Keating B., Jalaludin Z and E. Mahrdt (2012). Arheological description of the water vapour sorption kinetics behavior of wood invoking a

model using a canonical assembly of Kelvin-voigt elements and a possible link with sorption hysteresis. *Holzforshung 66(1):35-47***.**

11. Dunningham E.A. (2012). Kinetic studies of the acetylation reaction of small *Pinus radiate* blocks. *European Journal of Wood and Wood Products 70:857-863.*

12. Doczekalska B., Bartkowiak M. and R. Zakrzewski (2014). Esterification of willow wood with cyclic acid anhydrides. *Wood Research 59(1):85-96.*

13. Sadeghifar H., Dickerson J.P. and D. Argyropoulos (2014). Quantitative P NMR analysis of solid wood offers an insight into the acetylation of its components. *Carbohydrate Polymers 113:552-560.*

14. Vaiya A.A., Gaugler M. and D.A. Smith (2016). Green route to modification of wood waste, cellulose and hemicelluloses using reactive extraction. *Carbohydrate Polymers 136:1238-1250.*

15. Chauhman G. Pant K and k. Nigam (2015). Conceptual mechanism and kinetic studies of chelating agent assisted metal extraction process from spent catalyst. *Journal of Industrial and engineering Chemistry 27:373-383.*

16. Shahmirzadi A.N., Ghorbani M. and S.M. Aminisaab (2016). Determination the optical conditions of poplar wood treatment with maleic anhydride and physical characteristics of the product. *Journal of Wood and Forest science Technology 23(3):175-186.*

17. Mustapha E.A. (2013). Etuda de la composition climique les champignons lignivores. *Ph.D Thesis,* Universite Mohammed V, Agdal

18. Delagado N., Ysambertt F and G. Marquez (2015). Esterificacion asistida por micrroondas de lignin de pino con anhydrides succinicos. *Revista Iberoamericana de Polimeros 16(1):28-42.*

19. Zepic V., Poljansek I. and A. Hancic (2015). Effect of drying pretreatment on the acetylation of nanofibrillated cellolose. *BioResources 10(4):8148-8167.*

20. Katrakov I.B., Markin V. and P. Kolosv (2018). Bifunctional synthetic bindings as alternative for the benzformaldehyde production of wood plate materials. *Khimiva Rastitel'nogo Syr'ya 3:251-260.*

Για την εργασία μου με τίτλο: Isocyanate resins for particleboard: PMDI vs EMDI. Holz als Roh-und Werkstoff 60(2):81-83 50 βιβλιογραφικές αναφορές

1. Hsu,Wu-Hsiung E (2004). Application of aqueous emulsifiable isocyanate adhesives for wood based composites. *China Forest Products Industry 31(2): 3-6.*

2. Hu H, Liu H, Zhao J and Li (2006). Investigation of Adhesion Performance of AqueousPolymer Latex Modified by Polymeric Methylene Diisocyanate. *The Journal of Adhesion 82:93–114.*

3. Li-Ting, Lin (2006). Properties of low formaldehyde emission and fire resistant particleboard made from recycled wood waste chips. *M.Sc thesis,* National Taiwan University, School of Biological Resources and Agricultural College.

4. Inari N., Petrissans M. and P Gerardin (2007). Chemical reactivity of heat-treated wood. *Wood Science and Technology 41 (2): 157-168.*

5. Gruver., T.M., Brown N.R, Cionni J.S., Mc Cracken T.S., Nicola W.J. and T. Takah (2008). Effects of selected wood species and moisture content

on PMDI resin application and panel properties. *Wood and Fiber Science 40(2):242-247.*

6. Zhenhua G., Jiyou G. and L. Zhiguo (2008). The study on the competing reaction of isocyanate with alcohol and water at room temperature. *China Wood Science Research.* 07-31-08, pp: 1-9.

7. Gao Z.H., Gu J.Y and Z.Z. Geng (2008). Quantitative analysis of the isocyanate-wood reacted resultants. Gaofenzi Cailiao Kexue Yu Gongcheng/Polymeric Materials Science and Engineering 24 (11):130-133.

8 Kowaluk G. and D. Fuczek (2009). PVAc glue as a binding agent in particleboards. *Drewno-Wood 52:17-24.*

9. Abdolzadeh H., Doosthoseini K., Enayati A. And A.N. Karimi (2009). The effects of acetylated poplar particles on mechanical and physical properties of three and single layer particleboards. *Journal of the Iranian Natural Res. 61(4):963-973.*

10. Mao, A. (2009). An investigation of using pyrolysis bio-oil as part of the binder system for wood-based composites. M.Sc Thesis, Mississippi State University, USA.

11. Cao Y. (2010). Characterisation of PF/PVAC adhesive wood interaction and its effect on wood strand composites performance. *M.Sc Thesis,* Washington State University, USA.

12. Atta-Obeng E. (2011). Chracterisation of phenol adhesive and adhesive wood particle composites reinforced with nicrocrystalline cellulose. *M.Sc Thesis, Auburn University, USA.*

13. Amazio P., Avella M., Ericco M.E., Gentile G., Balducci F., Gnaccarini A., Motaralla J. and M. Belanche (2011). Low formaldehyde emission

particleboard panels realized through a new acrlic binder. *Journal of Applied Polymer Science 122(4):2779-2788.*

14. Atta-Obeng E, Via B.K. and O. Fasina (2012). Effect of microcrystalline cellulose species and particle size on mechanical and physical properties of particleboard. *Wood and Fiber Science* 44(2):1-9.

15. Sterley M., Trey S., Lundevall A. and S. Olsson (2012). Influence of cure conditions on the properties of a one-component moisture-cured polyurethane adhesive in the context of green gluing of wood. *Journal of Applied Polymer Science 126:E296-E303.*

16. Rachtanapum P., Sattayarak T. and Ketsamak N. (2012). Correlation of density and properties of particleboard from coffee waste and urea formaldehyde and polymeric diphenyl diisocyantes. *Journal of Composite Materials 46(15):1839-1850.*

17. Spiridon I., Darie R.N., Bodirlau R., Teaca CA. and F. Doroftei (2013). Polypropylene-based composites reinforced by toluene diisocyanate modified wood. *Journal of Cmposite Materials 47:3451-3464.*

18. Bertolini M., Lahr F.A.R., do Nascimento M.F. and J.A.M. Agneli (2013). Accelerated artificial aging of particleboards from residues of CCB treated *Pinus sp*. And Castor Oil resin. *Materials Research 16(2):293-303.*

19. Chauhan M., Gupta M., Singh B., Bhattacharyya S.K., Singh A.K. and V.K. Gupta (2013). Pretreatment of pine needles/wood particles and their composites with isocyanate prepolymer adhesive. *Polymer Engineering and Science (DOI 10.1002).*

20. Dettmer J. (2013). Properties comparison of north American manufactured particleboard and medium density fiberboard. Ph.D Thesis, *University of British Columbia, Canada.*

21. Lampert N.S. (2014). Quantification of resin efficiency in wood composite panels. *M.Sc Thesis*, Oregon state University, USA.

22. Trcicki O. and Beer M. (2014). Effectiveness of asymmetrical veneering with hardwood species of varying shrinkage and porosity. *Drvna Industrija 65(2):139-142.*

23. Nascimento M., Bertolini M., Panzera T., Christoforo A. and R. Lahr (2015). OSB panels made with wood species from the Brazilian northeast coatinga. *Ambiente Construido 15(1): 41-48.*

24. Olenska S., Smardzewski J. and P. Beer (2016). The stiffness of one-sided, assymetricallly veneered composites. *BioResources 11(4):9386-9399.*

25. Gupta M., Chauhan M. and b. Singh (2010). Studies on biocomposites based on pine needless and isocyanate adhesives. *Journal of Biobased Materials and Bioenergy 4(4):353-362.*

26. Olenska S., Pawl T., Mariusz M. and B. Piort (2014). Effectiveness of asymmetrical veneering with jardwood species of varying shrinkage and porosity. *Wood Research 65(2):139-142.*

27. Meng X., Shen Y., X. Li and C. Fei (2010). Preparation and application of water based isocyanates cross linker composite adhesives. *China Adhesives 19(8):31-34*

28. Mateu, A.M (2015). Tableros de posidonia oceanic y particulas de Madera de pino gallego. *Ph.D Thesis*, Universitad de Alicante, Brasil.

29. Leoine E. (2013). Synthese d adhesives de panneaux composites eb bois. Doctorat en sciences du bois, University of Laval, Canada.

30. Younesi-Kordkheili H., Pizzi A. And A. Mohhamed (2017). Improving the properties of ionic liquid treated lignin urea formaldehyde resins by a

small adhesion of isocyanate for wood adhesive. *The Journal of Adhesion, pp 1-14.*

31. Gadhave R., Mahanwar P. and P. Gadekar (2017). Factor affecting gel time process ability of urea formaldehyde resin based wood adhesives. *Open Journal of Polymer Chemistry 7:33-42.*

32. Salem M., Bohm M and R. Nasser (2017). Measuring the formaldehyde content from different types of OSB manufactured with different thickness and glued with different resins. *Drvna Industria 68(2):173-178.*

33. Jang J., Lee M., Kang E and S. Lee (2017). Characteristics of low density fiberboards for insulation material with different adhesives. *Journal of Korean Wood Science and Technology 45(3):360-367.*

34. Chen H. and N. Yan (2018). Application of western red cedar tree bark as a functional filler in pMDI wood adhesives. *Industrial Crops and Products 113:1-9.*

35. Thongkanluang T. and P. Kahawong (2018). Physical and mechanical properties of fiberboards from oil palm empty fruit bumch fibers mixed with water hyacinth fibers. *SNRU Journal of Science and Technology 10(1):52-57.*

36. Salem M.Z., Bohm M. and W.A. Elgat (2018). Some physic-mechanical characteristics of uncoated OSB ECO-products made from Scots pine and bonded with pMDI resin. *BioResources 13(1):1814-1828.*

37. Nakanishi E. and H. Savastano (2018). Formaldehyde free particleboards using natural latex as the polymeric binder. *Journal of Cleaner Production 195:1259-1269.*

38. Peters F., Gelker M., Militz H., Ohms G. and W. Viol (2018). Decrease of the syrface pH of maple and the production of nitrate by three pulsed dielectric barrier discharges. *Wood Science and Technology 52:1495-1510.*

39. Zhang C, Li Y and B. Zhao (2018). Behaviour of water pMDI emulsion adhesive on bonding wood substrates with varied surface properties. *Industrial & Engineering Chemistry Research 57, 48:16318-16326.*

40. Jabbari M, Tatari A. And m. Ghaflari (2018). Effect of faces type and thickness on mechanical properties of sandwich panels. *Iranian journal of Wood and Paper Industries 5(1):92-99.*

41. Chen H, Sandeep S, Nair S, Chauman P. and N, Yan (2018). Lignin containing cellulose nanofibril application in pMDI wood adhesives for drastically improved gap-filling properties with robust bondline interfaces. *Chemical Engineering Journal 360:393-401.*

42. Nakanishi E (2018). Estudo de biofilmes funcionais como revestimento instalacao agroindustrial. *Ph.d Thesis*, Universidade de Sao Paulo, Brasil.

43. Hafidz M., Mohd A. and M. Zulkifli (2018). Mechanical properties and formaldehyde emission rubberwood particleboard using emulsified EMDI binder at different pree factor continuous press. *International Journal of Engineering & Technology 7:335-338.*

44. Solt P. and H. Van Herwingen (2019). Technological performance of formaldehyde free adhesive alternatives for particleboard industry. *Adhesion & Adhesives 94:99-131.*

45. Zeleniuc O. And A. Fotin (2019). Influence of adhesive type and content on properties of particleboard made from sunflower husks. *BioResources 14(3):7316-7331.*

46. Hosseinpourpia H. and S. Adamopoulos (2019). Properties of medium density fiberboards bonded with dextrin based wood adhesive. *Wood Research 64(2):185-194.*

47. Hemmila V., Adampoulos S., Hosseinpourpia H. and S.A. Ahmed (2019). Ammonium lignosulfonate adhesives for particleboards with pMDI and furfuryl alcohol as crosslinkers. *Polymers 11, 1633*.

48. Nuryawan A. and E.M. Alamsyah (2019). Thermal stability of isocyanate as particlebiard's adhesive investigated by TGA. *IOP Conf Series: Earth and Environmental Science 374, 012004.*

49. Luo P., Yang C., Li M. and Y. Wang (2020). Manufacture of thin rice straw particleboards bonded with various polymeric methanel diphenyl diisocyante /urea formaldehyde resin mixtures. Bioresources 15(1):935-944.

50. Zeleniuc, O., Brenci, m. Cosereanu C. and A. Fotin (2019). Influence of adhesive type and content on the properties of particleboard made from sunflower husks. *BioResources 14(3):7316-7331.*

Για την εργασία μου με τίτλο: Dimensional stability of OSB made from acetylated fir strands. Holz als Roh-und Werkstoff 60(2):84-87 37 βιβλιογραφικές αναφορές

1. Badel E, Letang JM, Peix G and D Babot (2003). Quantitative microtomography: Measurement of density distribution in glass wool and local evolution during a one-dimensional compressive load. *Measurement Science and Technology* 14 (4):410-420.

2. Mohebby B. (2004) Acetylation of wood and lignocellulosic materials. *2nd Conference on Azad University and Khorasan Wood Industries; 11-14th May; Mashad: P. 19/1-19/18. (In Persian language).*

3. Rosilei A. Garcia (2005). Amelioration de la stabilite dimensionnele des panneaux de fibre de bois MDF par traitements physico-chimiques. *Doctorat en sciences (Ph.D) Dissertation,* Universite of Laval, Spain.

4. Yilidz UC, Dizman E, Kalaycioglou H, Yilidz S, Temiz A and ED Gezer (2005). The effects of chemical modification on the physical and mechanical properties of particleboards produced from Alder and Spruce chips. *Proceedings of the 2nd European Conference on Wood modification.* Gottingen, Germany, Pp:116-124.

5. Ozkaya K, Ilce AC, Burdurlu E ans S Aslan (2007). The effect of potassium carbonate, borax and wolmanit on the burning characteristics of oriented strand board (OSB). *Construction and Building Materials* 21(7):1457-1462.

6. Gu, J, Shao L., Lei D. and J. Zhan (2007). Research progress in the dimensional stability on fibreboard. *Forestry Machinery and Wood-working equipment* 36(2): 11-16.

7. Stefke B., Windeisen, E., Schwanninger, M., and B. Hinterstoisser (2008). Determination of the weight percentage gain and of the acetyl group content of acetylated wood by means of different infrared spectroscopic methods. *Analytical Chemistry* 80 (4):1272-1279.

8. Evans, P. D. Evans and I. Cullis (2008). Effect of sanding and coatingwithUV-cured finishes on the surface roughness, dimensional stability and fire resistance of oriented strandboard. *Holz als roh und Werkstoff 66:191-199.*

9. Traboulay E. (2008). The search for renewable non wood fibers- Implications for Trinidad and Tobacco. *USC Journal of Research 1:26-46.*

10. Heller, JJP (2009). The influence of hot water extraction on physical and mechanical properties of OSB. *Ph. D Thesis,* The University of Maine.

11. Hung K.E. (2009). Effects of acetylated bamboo particle on mechanical and weathering properties of bamboo plastic composites. *Ph.D Thesis*. National Chung Hsing University, Taiwan, Department of Forestry.

12 Wu Jyh-Horng (2010). Dimensional stability by chemical modification of wood. *Lecture Notes*. National Chung Hsing University, Taiwan, Department of Forestry.

13 Tomak E.D. and U.C. Yilitz (2010). Chemical modification of wood. *Ulusal Karadeniz Ormanclik Kongresi, Sayfa*. Pp: 1681-1690.

14. Mirski R. and A. Derkowski (2010). Bending strength of OSB subjected to boiling test. *Annals of Warsaw University of Life Sciences-SGGW Forestry and Wood Technology 71:515-518*.

15. Nwankwere E.T., Omolaoye J.A., Nwadiogbu J.O. and B.Y. Nale (2011). Thermal and dimensional stability of NBS-catalysed acetylated rice husks. *Der Chemica Sinica* 2*(1):189-196*.

16. Hidayat W., Sya M., Purwawansga H., Iswanto A. and F. Febrianto (2011). Effect of wood species and layer structure on physical and mechanical properties of strand board. *J. Illmu. Dan Technologi Kaya Tropics 9(2):134-140*.

17. Febrianto F., Hidayat S.W., Bakar E.S., Kwon G., Kwon J., Hong S. and N. Kim (2012). Properties of oriented strand board made from Betung bamboo (*Dendrocalamus asper*) (Schultes. F) Backer ex Heyne). *Wood Science and Technology 46(1-3):53-62*.

18. Wan H., Wang X. and k. Groves (2012). Manufacturing high strength and dimensional stable strand panels via optimizing panel manufacture

conditions. *Proceedings of International Conference on Biobase Material Science and Engineering, BMSE 2012, pp:2452-245.*

19. Salari A., Tabarsa T., Khazaeian A. and Saraeian A. (2013). Improving some of applied properties of oriented strand board (OSB) made from underutilized low quality paulownia (*Paulownia fortunie*) wood employing nano-SiO_2. *Industrial Crops and Products* 42:1-9

20. Pirayesh H., Khanjanzadeh H. and A. Salari (2013). Effect of using walnut/almond shells on the physical, mechanical and formaldehyde emission of particleboard. *Composites: Part B. 45(1):858-863.*

21. Salari A., Tabarsa T., Khazaeian A. and A. Saraeian (2012). Effect of nanoclay on some applied properties of oriented strand board (OSB) made from underutilized low quality paulownia wood. *Journal of Wood Science 58:513-524.*

22. Iswanto A., Fatriaasari W., Yunianti A., Zailani A. and F. Febrianto (2013). Physical and mechanical properties of OSB prepared from acetylated wood strands. *J. Ilmu dan Teknologi Kayu Tropics 11(2):184-191.*

23. Lahtela V., Hamalainen K. and T. Karki (2013). The effects of preservatives on the properties of wood after modification. *Baltic Forestry 20(1):189-203.*

24. Neyses B. (2015). Development of a wood based modular furniture system. *Master Thesis*, Lulea University, Sweden.

25. Bufalino L., Correa A. and V. Pizzol (2015). Alternative compositions of oriented strand boards made with commercial wood produced in Brazil. *Maderas: Ciencia y technologia 17(1):105-116.*

26. Bavaneghi F. and M. Ghorbani (2016). Mechanical behavior and springback of acetylated particleboard made in different press times. *Wood Material Science and Engineering 11(1):57-61.*

27. Hidayat W., Carolina A. and F. Febrianto (2013). Physical, mechanical and durability properties of OSB prepared from CCB treated fast growing tree species strands. *J. Ilmu dan Teknologi Kayu Tropics 11(1):55-61.*

28. Hidayat W. (2009). Preparation and properties enhancement of OSB made from tropoical fast growing tree species. *M.Sc Thesis*, National Chiayi University

29. Esen R., Yapici F. and H. Yorur (2013). The effects of press time and press temperature on the screw strength properties of OSB manufactured from scots pine. *Pro Ligno 9(4):456-459.*

30. Kokandeh M.G. (2013). The effect of acetylation on heat transfer mechanism during hot pressing and mechanical properties of wood based composites. *Lignocellulose 2(1):307-315.*

31. Agyen K. (2013). The use of bonded sawdust as a substitute material for carving. *M.Sc Thesis*,University of Kumasi.

32. Istek A., Tunc H. and I. Ozlusoylu (2016). Determination of some physical and mechanical properties of OSB produced from silane treated strands. *Journal of Bartin Faculty of Forestry 18(2):1-8.*

33. Iswanto A., Hermanto S. and T. Sucipto (2017). The effect of particle immersing in acetic acid solution on dimensional stability and strenghth properties of particleboard. *IOP Conference Series: Earth and Environmental Science 126(2018) 012017.*

34. Onyekwere O., Igboanugo A. and T.B. Adeleke (2019). Optimisation of acetylation parameters for reduced moisture absorption of bamboo fibre using

taguchi experimental design and genetic algorithm optimization tools. *Nigerian Journal of Technology 38:(1):104-111.*

35. Lotter B. and P. Evans (2019). Sprayable hot melt waxes as water repellents for OSB. *International Wood Products Journal*

36. Pipíška, T., Paril, P., Cermak, P., Domeny, j., Kral, p. and F. Kamke (2020). Effect of chemical and thermal modification, and material replacement on strand board properties. *European Journal of Wood and Wood Products* (2020)

37. Zeleniuc O., Dumitrescu A. and V. Ciobamu (2020). Properties evaluation by thickness and type of OSB manufactured in continuous press line. *BioResources 15(3):5829-5842.*

Για την εργασία μου με τίτλο: The biological effectiveness of wood modified with linear chain carboxylic acid anhydrides against Coniophora puteana. Holz als Roh-und Werkstoff 60(5):329-332

105 βιβλιογραφικές αναφορές

1. Hill CAS (2002). How does the chemical modification of wood provide protection against decay fungi? *Workshop COST Action E22 'Environmental friendly optimisation of wood protection'* Finland Pp: 1-8.

2. Mohebby B. (2003). Biological attack of acetylated wood. *Ph.D Thesis,* Georg-August Universitat Gottingen, Germany.

3. Hill CAS, M. D. Hale, and Simon C. Forster (2004). Investigations of the role of cell wall moisture content and micropore blocking in the decay protection mechanism of anhydride modified wood. *Final Workshop COST*

Action E22 'Environmental friendly optimisation of wood protection'. Lisboa, Portugal Pp: 1-8.

4. Jones D and N. Howard (2004). Improvements in the biological durability of UK grown timbers by various wood modification techniques. Final *Workshop COST Action E22 'Environmental friendly optimisation of wood protection'.* Lisboa, Portugal, Pp: 1-10.

5. Hill CAS (2005). Acetylated wood: The science behind the material. *Proceedings of the 2nd European Conference on Wood Modification.* Gottingen, Germany. Pp:1-15.

6. Hill CAS, Forster SC, Farahami MRM, Hale MD, Ormondroyd GA and GR Williams (2005). An investigation of cell wall micropore blocking as a possible mechanism for the decay resistance of anhydride modified wood. *International Biodeterioration & Biodegradation* 55: 69–76.

7. Verma P, Mai C, Krause A. and H. Militz (2005). Studies on the resistance of DMDHEU treated wood against white rot and brown rot fungi. *International Research Group on Wood Preservation,* Bangalore, India. (Document No. IRG/WP 05-10566).

8. Hill CAS, Ormondroyd G, Karim S, Forster S, Jones D, Suttie E and N. Howard (2005). The decay resistance of anhydride modified wood: A study of the mechanisms. *Proceedings of the 2nd European Conference on Wood Modification.* Gottengen, Germany. Pp:100-107.

9. Donath S, Militz H and C. Mai (2006). Treatment of wood with aminofunctional silanes for protection against wood destroying fungi. *Holzforshung* 60(2):210-216.

10. Hill CAS, Michael D. Hale, Graham A. Ormondroyd, Jin H. Kwon and Simon C. Forster (2006). Decay resistance of anhydride-modified Corsican

pine sapwood exposed to the brown rot fungus *Coniophora puteana. Holzforschung* 60 (6): 625-629.

11. Krause A. (2006). Holzmodifizierung mit N-Methylolvernetzen. *Ph.D Thesis,* Georg-August Universitat Gottingen, Germany.

12. Dizman E., Yilidz U., Yilidz S., Aslan M. and A. Temiz (2006). Biological resistance of acetylated spruce particleboards against to brown rot fungi (*Coniophora puteana*). *Kafkas Universitesi, Artvin Orman Fakultesi Dergisi 7(2):106-115.*

13 Hill CAS, Kwon JE, Hale MD, Ormondroyd G, Suttie E and N Howard (2007). The decay resistance of anhydride modified wood. *Proceedings of the 3rd European Conference on Wood Modification.* Cardiff, Wales. Pp: 33-40.

14. Jebrane M. and G. Sebe (2007). A novel route to wood modification by transesterification with vinyl esters. *Proceedings of the 3rd European Conference on Wood Modification.* Cardiff, Wales. Pp: 65-70.

15. Weigenard O., Humar M., Daniel G., Militz H. and C. Mai (2008). Decay resistance of wood treated with amino-silicone compounds. *Holzforschung* 62 (1): 112-118.

16. Hill, CAS (2008). The reduction in the fibre saturation point of wood due to chemical modification using anhydrides reagents: a reappraisal. *Holzforschung 62: 423-428.*

17. Verma P., Dyckmans Y, Militz H and C. Mai (2008). Determination of fungal activity in modified wood by means of micro-calorimetry and determination of total esterase activity. *Applied Microbial and Cell Physiology 80:125-133.*

18. Ghosh S.C., Militz H. and C. Mai (2008). Decay resistance of treated wood with functionalised commercial silicones. *BioResources 3(4): 1303-1314.*

19. Reich S., Elsabbagh A. and L. Steuernagel (2008). Improvement of fibre-matrix adhesion of natural fibres by chemical treatment. *Macromolecular Symposia 262(1): 170-181.*

20. Christensen V. (2008). Industrialisering af modifecerent trae. *Teknisk Report*. Danish Teknologisk Institut, Pp 1-98.

21. Pignolet M.O. (2008). Optimisation de la durabilite de bois d' oeuvre (classe d' emploi 4) a l ;aide d ; anhydrides alkenyles succiniques d ; origine vegetale. *Ph.D Thesis*. Universite de Toulouse, Frnace.

22. Verma P., Junga U., Militz H. and C. Mai (2009). Protection mechanisms of DMDHEU treated wood against white and brown rot fungi. *Holzforschung 63(3): 371-378.*

23. Padney, K.K., Jayashree A. and H.C. Nagaveni (2009). Study of dimensional stability, decay resistance and light stability of phenylisothiocyanate modified rubberwood. *BioResources 4(1): 247-267.*

24. Ghosh S.C., Militz H. and C. Mai (2009). The efficacy of commercial silicones against blue stain and mouldi fungi in wood. *European Journal of Wood and Wood Products 67:159-167.*

25. Hill C.A.S., S.F. Curling, J.H. Kwon and V. Marty (2009). Decay resistance of acetylated and hexanoylated hardwood and softwood species exposed to *Coniophora puteana*. *Holzforshung* 63(5):619-625.

26. Rowell, R.M., Ibach, R.E., McSweeny J. and T. Nilsson (2009). Understanding decay resistance, dimensional stability and strenghth changes

in heat treated and acetylated wood. *Proceedings of the 4th European Conference on Wood Modification*. Stokholm, Sweeden. Pp: 489-503.

27. Schnabel, T. (2009). Holzoberflachen-Klassfizierung, Modellbildung und Umweltismulation von optischen Eigenschaften. *Ph. Thesis,* Technische Universitat Munchen, Gremany.

28. Hill, CAS (2009). Why does acetylation protect wood from microbiological attack? *Wood Material Science and Engineering 4(1):37-45.*

29. Rowell RM, Ibach RE, McSweeny J and T. Nilsson (2009). Understanding decay resistance, dimensional stability and strength changes in heat-treted and acetylated wood. *Wood Material Science and Engineering 4(1):14-22.*

30 Zaihan J, Hill CAS and S. Curling (2009). Moisture adsorption isotherms of wood studied using a dynamic vapour sorption apparatus. *Internation Research Group on Wood Preservation.* WP 09-20398, Beijing, China.

31. Alfredsen G. and M. Westin (2009). Durability of modified wood – Laboratory vs field performance. *Proceedings of the 4th European Conference on Wood Modification.* Stockholm, Sweden. Pp: 33-40.

32. Hung K.E. (2009). Effects of acetylated bamboo particle on mechanical and weathering properties of bamboo plastic composites. *Ph.D Thesis*, National Chung Hsing University, Taiwan.

33. Verma P. and C. Mai (2010). Hydrolysis of cellulose and wood powder treated with DMDHEU by a hydrolase enzyme complex, Fenton's reagent, and in liquid culture of *Trametes versicolor. Holzforschung 64:69-75.*

34 Khalil Abdul H.P.S., Bhat I.A. and K.B. Awang (2010). Preliminary study of enhanced properties and biological resistance of chemically modified *Acacia ssp*. *Bioresources* 5(4):2720-2737.

35. Pfeffer A., Dieste A., Mai C. and H. Militz (2011). Effects of water glass and DMDHEM treatment on the colonization of wood by *Aureobasisium pollulans*. *European Journal of Wood and Wood Products 69:303-309.*

36 Pholosi A., Ofomaja A.E. and E.B. Naidoo (2013). Effect of chemical extractives on the biosorptive properties of pine cone powder: influence on lead (ii) removal mechanism. *Journal of Saudi Chemical Society 17(1):77-86.*

37. Febrianto F., Hidayat S.W., Bakar E.S., Kwon G., Kwon J., Hong S. and N. Kim (2012). Properties of oriented strand board made from Betung bamboo (*Dendrocalamus asper*) (Schultes. F) Backer ex Heyne). *Wood Science and Technology 46(1-3):53-62.*

38. Hung K.C., Chen Y.L. and W. Jyh-Horng (2012). Natural weatrhering propertiew of acetylated bamboo plastic composites. *Polymer Degradation and Stability 97:1680-1685.*

39. Mahr M.S., Hubert T., Stephan I. and H. Militz (2013). Decay protection of wood against brown rot fungi bybtitanium alkoxide impregnations. *International Biodeterioration & Biodegradation 77:56-62.*

40. Pries M., Wagner R., Kaesler K., Militz H and C. Mai (2013). Acetylation of wood in combination with polysiloxanes to improve water-related and mechanical properties of wood. *Wood Science and Technology 47:685-699.*

41. Thybring E.E. (2013). The decay resistance of modified wood influenced by moisture exclusion and swelling reduction. *International Biodeterioration & Biodegradation 82:87-95.*

42. Giudice C.A., Alfieri P.V. and G. Canosa (2013). Decay resistance and dimensional stability of *Araucaria angustifolia* using siloxanes synthesized by sol-gel process. *International Biodeterioration & Biodegradation 83:166-170.*

43. Pries M. (2013). Treatment of solid wood with silanes, polydimethylsiloxanes and silica sols. *Ph.D Thesis, George-August University, Gottingen, Germany.*

44. Ringman R., Pilgard A. and K. Richter (2014). Effect of wood modification on gene expression during incipient *Postia placenta* decay. *International Biodeterioration & Biodegradation 86:86-91.*

45. Pries M., Wagner R., Kaesler K., Militz H. and C. Mai (2013). Effect of short chain silicones bearing different functional groups on the resistance of pine and beech against decay fungi. *Holzforschung 67(4): 447-454.*

46. Alfredsen G., Flaete P. and H. Militz (2013). Decay resistance of acetic anhydride modified wood: A review. *International Wood Products Journal 4(3): 137-143.*

47. Popescu C.M, Hill C.A.S., Curling S., Ormondroyd G. and Y. Xie (2014). The water vapour sorption of acetylated birch wood: how acetylation affects the sorption isotherm and accessible hydroxyl contents. *Journal of Materials Science 49:2362-2371.*

48. Lekounougou S. and D. Kocaefe (2014). Impact of thermal modification on bioresistance of North American wood species against wood-rotting basidiomycete fungi. *Wood Material Science and Engineering 9(2):67-75.*

49. Ringman R., Pilgard A., Brishke C. and K. Richter (2014). Mode of action of brown rot decay resistance in modified wood: *A review. Holzforschung 68(2):239-246.*

50. Alfredsen G., Ringman R., Pilgard A. and C.G. Fossdal (2014). New insight regarding mode of action of brown rot decay of modified wood based on DNA and gene expression studies: a review. *International Wood and Wood Products Journal 6(1):5-7.*

51. Ringman R., Pilgard A., Alfredsen G., Goodbell B. and K. Richter (2014). Possible targets of wood modification in brown rot degradation. *The International Research Group on Wood Protection. 45th IRG annual meeting*, St George Utah, USA.

52. Hague J., Bongers F., Imamura Y., Alexander J. and M. Roberts (2014). The performance of Accoya and Tricoya against attack by subterranean termites. *Proceedings of the 10th Pacific-Termite Research Group Conference, S2:3.*

53. Gu X., Liu L., You C., Cheng C and J. Yao (2015). Chemical modification of poplar wood in gas and liquid phase acetylation. *Wood Research 60(2):247-254.*

54. Giudice C.A., Alfieri P.V. and G. Canosa (2015). Siloxanos sintetizados *in situ* por el proceso sol gel para el control del ataque fungilo en maderas de araucaria angustifolia. *3rd Congresso Iberoamericano y XI Jornada, Technicas de restauracion y conservacion del patrimonio. Topic 3-No 6.*

55. Tomak E.D. and A. Temiz (2015). Effect of chemical modification on water absorption, dimensional stability and biological durability of wood. *Journal of Faculty of Engineering and Architecture of Gazi University, 29(4):769-776.*

56. Ringman R., Pilgard A. and K. Richter (2015). In vitro oxidative and enzymatic degradation of modified wood. *Interbational Journal of Wood and Wood Products 6(1):36-39.*

57. Xie Y., Xiao Z. and C. Mai (2015). Degradation of chemically modified scots pine with fenton reagent. *Holzforschung 69(2):153-161.*

58. Kocaefe D., Huang X. and Y. Kocaefe (2015). Dimensional stabilization of wood. *Current Forestry Reports 1(3):151-161.*

59. Bongers F., Kutnik M., Paulmier I., Alexander J. and H. Militz (2015). Termite and insect resistance of acetylated wood. *The International Research Group on Wood Protection.* Chile, IRG/WP 14-40703.

60. Zelinka S., Ringman R., Pilgrad A., Thybring E., Jakes J. and k. Richter (2015). The role of chemical transport in the decay resistance of modified wood. *In M. Hughes, L. Rauktari, T. Uimonen, H . Militz and B. Junge (eds). Proceedings of the 8th European Conference on Wood modification. Alto University, Finland, pp:35-43.*

61. Hosseinpourpria R. and C. Mai (2016). Mode of action of brown rot decay resistance of acetylated wood: resistance to Fenton's reagent. *Wood Science and Technology 50(2):413-426.*

62. Ghordani M. and F. Bavaneghi (2016). Effect of press cycle time on application behavior of board made from chemically modified particles. *Drvna Industrija 67(1):25-31.*

63. Zelinka S., Ringman R., Pilgrad A., Thybring E., Jakes J. and K. Richter (2016). The role of chemical transport in the brown rot decay resistance of modified wood. *International Wood Products Journal 7(2):66-70.*

64. Oldertroen K., Kittikun A., Phongraiht S., Riyajan S. and S. Teanpaisal (2016). Treatment of rubberwood with maleic anhydride to prevent moulds. *Journal of Forest Science 62(7):314-321.*

65. Badel E., Letang J., Peix G. and D. Badot (2003). Quantitative microtomography: measurement of density distribution in glass wool and local evolution during a one dimensional compressive road. *Meas. Sci. Technology 14:410-420.*

66. Jebrane, M. (2009). Fonctionnal chimique du bois par transesterification des esters d 'enol. *Ph.D Thesis*, L'Universite Bordeaux.

67. Ashaduzzaman M. (2014). Physico-mechanical and decay resistance properties of bio-resin modified wood. *Ph.D Thesis*, University of Wales, Bangor.

68. Ghosh S., Dyckmans J., Militz H. and C. Mai (2012). Effect of quat and amino silicones on fungal colonization and decay of wood. *Holzforschung 66:1009-1015.*

69. Namyslo J., Kaufmann D., Mai C. and H. Militz (2014). Chemical improvement of surfaces. *Holzforschung 69:595-601.*

70. Dimensional stability and fungal durability of acetylated wood. Drewno 59:139-450.

71. Mantanis G. (2017). Chemical modification of wood by acetylation or furfurylation: A review of the present scaled-up technologies. *BioResources 12(2):4478-4479.*

72. Fodor F., Nemeth R., Lankveld C. and T. Hofmann (2017). Effect of acetylation on the chemical composition of hornbeam in relation with the physical and mechanical properties. *Wood Material Science and Engineering 13:271-278.*

73. Hassan N., Hamid N. and S. Ujang (2017). Decay resistance of acetic, propionic and butyric anhydrides modified rubberwood against brown rot. *BioResources 12(3):4527-4546.*

74. Ringman R., Pilgard A., Brischke C. and K. Richter (2017). Incipient rot decay in modified wood: patterns of mass loss, structural integrity, moisture and acetyl content in high resolution. *International Wood Products Journal 8:172-182.*

75. Beck G., Strohbusch S., Larnoy E., Militz H. and CAS Hill (2018). Accessibility of hydroxyl groups in anhydride modified wood as measured by deuterium exchange saponification. *Holzforschung 72:17-23.*

76. Passarini L., Zelinka L.S., Glass S.V. and C.G. Hunt (2018). Effect of weight percent gain and experimental method on fiber saturation point of acetylated wood determined by differential scanning calorimetry. *Wood Science and Technology 51(6): 1291-1305*

77. Bech G., Thybring E., Thygesen L. and C. Hill (2018). Characterisation of moisture in acetylated and propionylated radiate pine using low-field nuclear magnetic resonance relaxometry. *Holzforshung 72:225-233.*

78. Sanderg D., Kutnar A. and G. Mantanis (2017). Wood modification technologies a review. *I Forest – Biogeosciences and Forestry 10:895-908.*

79. Marfo E., Wereko E. and K. Larbi (2018). Chemical modification of the tropical species to improve its durability. *Journal of Wood Chemistry and Technology 38(1):51-56.*

80. Umit C., Tomak E., Yilitz S. and E. Gezer (2007). The effects of chemical modification on the biological properties of alder and spruce particleboards. *International Research Grooup on Wood Preservation, IRG/WP07-40363, Wyoming, USA.*

81. Mantanis G. and H.T. Sahin (2017). Modification of wood by chemical processes: a review. *International Symposium on new horizons in Forestry, Instabul, Turkey, pp:272-280.*

82. Dizman E. and A. Temiz (2006). Biological resistance of acetylated spruce particleboards against brown rot. Kafkas Universitesi, Artvin Orman *Facultesi Degrisi 7(2):106-115.*

83. Hisham H., Nuraishan H. and Z. Fitri (2018). Decay resistance of acetic, propionic and butyric anhydrides modified rubberwoo against white rot. *Journal of Tropical Forest Science 30(2):163-174.*

84. Peeters K., Larnoy E., Kutnar A. and C. Hill (2018). An examination of the potential for the use of the maillard reaction to modify wood. *International Journal of Wood and Wood Products 9:108-114.*

85. Thybring E. and L. Rauktari (2018). Moisture in modified wood and its relevance for fungal decay. *i Forest 11:418-422.*

86. Peeters K., Kutnar A., Tavzes C., Pecnik J. and C. Hill 92018). The maillard reaction for wood modification: The influence of reagent concentrations, reaction temperature and soaking time on the leachability and cell wall penetration of reagents. *9th European Conference on Wood Modification, Arnhem, Netherlands.*

87. Nakamura A.P.D. (2018). Propriedades de panel biocomposito e acido citric como adesivo. *M.Sc. Thesis, Universidade de Brasilia.*

88. Beck G., Thybring E. and L. Thygesen (2018). Brown rot fungal degradation and de-acetylation of acetylated wood. *International Biodeterioration & Biodegradation 135:62-70.*

89. Beck G., Hegnar O., Fossdal G. and G. Alfredsen (2018). Acetylation of *Pinus radiate* delays hydrolytic depolymerisation by the brown rot fungus *R. palcenta*. *International Biodeterioration & Biodegradation 135:39-52.*

90. Hunt C., Zelinka S. and J. Jakes (2018). Acetylation increases relative humidity threshold for ion transport in wood cell walls. A means to understanding decay resistance. *International Biodeterioration & Biodegradation 133:230-237.*

91. Peeters K, Larnoy E, Kutnar A and CAS Hill (2018). An examination of the potential for the use of the Mailard reaction to modify wood. *International Wood products Journal 9(3):108-114.*

92. Huang X, Kocaefe D, Kocaefe Y and A Pickete (2018). Combined effect of acetylation and heat treatment on physical, mechanical and biological behavior of jack pine wood. *European Journal of Wood and Wood Products 76:525-540.*

93. Kusumah S.S. (2017). Development of particleboard made from swet sorghum bagasse and citric acid. *Ph.D Thesis*, Kyoto University, Japan.

94. Ringman R., Bech G. and A. Pilgard (2009). The importance of moisture for brown rot degradation of modified wood: A critical discussion. *Forests 10, 55, doi:10.3390.*

95. Hasegawa Y., Morri M., Koda K. and Y. Uraki (2019). Effect of vapor phase surface acetylation of Japanese cedar wood on fungal degradation and dimensional stability. *Journal of Wood Chemistry and Technology 40:1-14.*

96. Kolle M., Ringman R. and A. Pilgard (2019). Initial *Rhodonia placenta* gene expression in acetylated wood: Group-wise upregulation of non-enzymatic oxidative wood degradation genes depending on the treatment level. *Forests* 10, 1117.

97. Kaldum C., Softje M., Namyslo J. and D. Kaufmann. Chemical improvement of surfaces. Part 5: surfactants as structural lead for wood hydrophobisation-covalent modification with p-alkylated benzoates. *Holzforschung*.

98. Marfo ED. and D.A. Darkwa (2019). Evaluating the dependence on dimensional stability of chemically modified Celtis milbraedtii. UDS International Journal of Development (UDSUD) 6(3):7-16.

99. Ringman R., Pilgard A. and K. Richter (2020). Brown rot gene expression and regulation in acetylated and furfurylated wood: a complex picture. *Holzforshung*

100. Taghiyari H., Esmailpour A., Adamopoulos S., Zereshki K. and R. Hosseinpourpia (2020). Shear strength of heat treated solod wood bonded with polyvinyl acetate reinforced by nanowollastonite. *Wood Research 65(2): 183-194.*

101. Teaca, c. and F. Tanasa (2020). Wood surface modification- classic and modern approaches in wood chemical treatment by esterification reactions. *Coatings 10, 629.*

102. Yang, T., Thybring, E. and l. Thygesen (2020). Effects of changes in biopolymer composition on moisture in acetylated wood. *Forests 11, 719.*

103. Gaitan-Alvarez, J., Berrocal, A., Mantanis, G., Moya, R. and F. Araya (2020). Acetylation of tropical hardwood species from forest plantations in Costa Rica: an FTIR spectroscopioc analysis. Journal of Wood Science 66:49.

104. Grace, A., Yekken, O. and O.S. Olalekan (2020). Decay resistance of the acetylated tropical hardwood species. *Journal of Forest and Environmental Science 36(2): 225-232.*

105. Adebawo, F., Ogunsanwo, O, and O.S. Olalekan. Decay resistance of the acetylated tropical hardwood species. *Journal of Forest and Environmental Science 36(3):225-232.*

Για την εργασία μου με τίτλο: One layer Experimental Particleboard from Coconut Chips -(Cocos nucifera L.). Holz als Roh-und Werkstoff 60(6):394-396 28 βιβλιογραφικές αναφορές

1. Zheng Y, Pan Z, Zhang R, Jenkins BM and S. Blunk (2006). Properties of medium-density particleboard from saline Athel wood. *ASAE: The Society for engineering in agricultural, food and biological systems*. Paper number: 056128.

2. Zheng Y, Pan Z, Zhang R, Jenkins BM and S. Blunk (2006). Properties of medium-density particleboard from saline Athel wood. *Industrial Crops and Products* 23 (2006) 318–326.

3. Hu H, Liu H, Zhao J, Li J (2006). Investigation of Adhesion Performance of AqueousPolymer Latex Modified by Polymeric Methylene Diisocyanate. *The Journal of Adhesion* 82:93–114.

4. Pan Z, Zheng Y, Zhang R and B.M. Jenkins (2007). Physical properties of thin particleboard made from saline eucalyptus. *Industrial Crops and Products* 26 (2): 185-194.

5. Zheng Y, Pan Z, Zhang R, Jenkins BM and S. Blunk (2007). Particleboard quality characteristics of saline jose tall wheatgrass and chemical treatment effect. *Bioresources Technology* 23 98(6):1304-1310.

6. Arslan M.B., Karakus B. and E. Guntekin (2007). Tarimsal atiklardan lif ve yomga levha uretimi. *ZKU Bartin Orman Fakultesi Dergisi Yil 9(12): 54-62.*

7. Karakus B. (2007). Cesitli bitkisel sera atiklarinin yonga levha uretiminde degerlendirilmesi. *Ph.D Thesis,* T.C Suleyman Demirel Universitesi, Turkey.

8. Arslan, M.B. (2008). Orman ve tarimsal atiklardan uretilen kompozit levhalarda yuzey kimyasal ozelliklerinin arastirilmasi. *Ph.D Thesis,* T.C Suleyman Demirel Universitesi, Turkey.

9. Guntekin E. and B. Karakus (2008). Feasibility of using eggplant (*Solannm melongena*) stalks in the production of experimental particleboard. *Industrial Crops and Products* 27 (3): 354-358

10. Erakhrumen A.A, Areghan S.E., Ogunleye M.B., Larinde S.L. and O. O. Odeyale (2008). Selected physico-mechanical properties of cement-bonded particleboard made from pine sawdust-coir mixture. *Scientific Research and Essay* 3(5): 197-203.

11. Cuk N., Kunover m. and S. Medved (2011). Properties of particleboards made by using an adhesive with added liquefied wood. Materiali in technologije 45(3): 241-245.

12 Cuk N. and M. Kubaver (2012). Liquefaction of wood using ultrasound and production of particleboards using adhesive mixtures with added liquefied wood. *Les wood 64:116-122.*

13. Muller C., Schwarz U. and V. Thole (2012). Zur nutzung von agrar-reststoffen in der holzwerkstoffindustrie. *European Journal of Wood and Wood Products* 70:587-594.

14. Rachtanapum P., Sattayarak T. and Ketsamak N. (2012). Correlation of density and properties of particleboard from coffee waste and urea formaldehyde and polymeric diphenyl diisocyantes. *Journal of Composite Materials 46:1839-1850.*

15. Das.A.K., Billha M., Shmas I. and O. Hannan (2012). Physical and mechanical properties of bamboo wastage cement bonded board. *Journal of the Indian Academy of Wood Science 9(2):170-175.*

16. Nazerian, M. (2013). The lamination influence on properties of agro-based particleboard. *Wood Material and Science Engineering 8(2):129-138.*

17. Dziurka D. and R. Mirski (2013). Lightweight boards from wood and rape straw particles. *Drewno 56: 19-29.*

18. Ghosh R.K., Rahman A., Das A.K., Rama R. and I. Shams (2015). Introducing *Areca catechu* as a raw material of cement bonded board through determining the properties of *Areca catechu* cement bobded board. *Journal of the Indian Academy of Wood Science 12(2):99-103.*

19. Boruszewski P., Borysiuk P., Maminski M. and J. Czehowska (2016). Mat compression measurements during low density particleboard manufacturing. *BioResources 11(3):6909-6919.*

20. Sahin H. and M. Arslan (2013). Properties of orchad pruning and suitability for composite production. *Science and Engineering of Composite Materials 20(4):337-342.*

21. Ghalehno M.D., Nazerian M. and A. Bayatkascholi (2013). Experimental particleboard from bagasse and industrial wood particles. *International Journal of Agricultural and Crop Sciences 5(15):1626-1631.*

22. Taha I., Elkafaly M. and H. Mously (2016). Potential of utilizing tomato stalk as raw material for particleboards. *Ain Shams Engineering Journal 9:1457-1464.*

23. Kahar S., Masri M. and M. Mohamed (2017). The morphology and mechanical study on neolamarckia cadamba and endospermum diadenum in wood composite for particleboard application. *25th Scientific Conference of the Microscopy Society, Malaysia.*

24. Sam-Brew S. and G.D. Smith (2017). Flax shive and hemp hurd residues as alternative raw material for particleboard production. *BioResources 12(3):5715-5735.*

25. Kahar S., Masri M. and W. Samsi (2018). Effect of urea formaldehyde to the mechanical properties of particleboard fron meolamarchia cadamba and edospermum diadenum. Internation Journal of Current Science, Engineering and Technology.

26. Ramezanpour M, Tabei A, and M. Madinipour (2018). Effect of board density, resin percentage and pressing temperature on particleboard properties made from mixing of poplar wood slab, citrus branches and twigs of beech. *Wood Research 63(4):669-682.*

27. Taha I., Elkafafy M. and H. Mously (2018). Potential of utilizing tomato stalks as raw material for particleboards. *Ain Shmas Engineering Journal 9:1457-1464.*

28. Rana M., Islam N., Nath A. and M. Shams (2020). Influence of chemical additive on the physical and mechanical properties of cement-bonded composite panels made from jute stick. *Journal of Building Engineering*

Για την εργασία μου με τίτλο: The potential for using flax (Linum usitatissimun) shiv as a lignocellulosic raw material for particleboard. Industrial Crops and Products 17(2):143-147 82 βιβλιογραφικές αναφορές

1. Kymalainen H R (2004). Quality of Linum usitstissimum and Cannabis sativa during the production chain of fibre raw material for thermal insulations. *Academic dissertation,* University of Helsinki, Department of Agricultural Engineering and Household Technology.

2. Pasila Antti (2004). The dry-line method in bast fibre production. *Academic Disseretation.* University of Helsinki, Faculty of Agriculture and Forestry, Department of Agricultural Engineering and Household Technology.

3. Batalla, L, Nunez A and NE Marcovich (2005). Particleboards from Peanut-Shell Flour. *Journal of Applied Polymer Science* 97:916–923.

4. Guru M, Tekeli S. and I. Bilici (2006). Manufacturing of urea–formaldehyde-based composite particleboard from almond shell. *Materials and Design* 27: 1148–1151.

5. Kalaycıoglu H and G. Nemli (2006). Producing composite particleboard from kenaf (*Hibiscus cannabinus* L.) stalks. *Industrial Crops and Products* 24: 177–180.

6. Lubi C.M. and E.T. Thachil (2007). Particleboard from cashew nut shell liquid. *Polymers and Polymer Composites* 15 (1):75-82.

7. Mary L.C. and E.T. Thachil (2007). Particleboard from cashew nut shell liquid. *Polymer-Plastics Technology and Engineering* 46 (4): 393-400.

8. Nemli G. and A. Aydin (2007). Evaluation of the physical and mechanical properties of particleboard made from the needle litter of Pinus pinaster Ait. *Industrial Crops and Products* 26 (3): 252-258.

9. Taramian A., Doosthoseeini K., Mirshrokraii S.A. and M. Faezipour (2007). Particleboard manufacturing: An innovative way to recycle paper sludge. *Waste Management* 27 (12): 1739-1746.

10. Kim J.W. and G. Mazza (2007). Mass transfer during pressurized low-polarity water extraction of phenolics and carbohydrates from flax shives. *Industrial and Engineering Chemistry Research* 46 (22): 7221-7230.

11. Arslan M.B., Karakus B. and E. Guntekin (2007). Tarimsal atiklardan lif ve yomga levha uretimi. *ZKU Bartin Orman Fakultesi Dergisi Yil 9(12): 5462.*

12. Gamage N. (2007). Economical particleboard production using hardwood sawmill residues. *Ph.D Thesis*. RMIT University, Australia.

13. Guru M., Atar M. and R. Yildrim (2008). Production of polymer matrix composite particleboard from walnut shell and improvement of its requirements. *Materials and Design* 29 (1): 284-287.

14 Nemli G., Yilitz S. and E.D. Gezer (2008). The potential for using the needle litter of scotch pine (*Pinus sylvestris L.*) as a raw material for particleboard manufacture. *Bioresource Technology* 99(14):6054-6058.

15. Nemli G., Demirel S., Gumuskaya E., Aslan, M. and A. Cengiz (2009). Feasibility of incorporating waste grass chips (*Lolium perenne* L.) in particleboard manufacture. *Waste Management* 29: 1129-1131.

16. Kim S., Kim H.Y and J.C. Park (2009). Application of recycled paper sludge and biomass materials in manufacture of green composite pallet. *Resources, Conservation and Recycling* 53(2):674-679.

17 Guru M., Aruntas Y., Tuzun F.N. and I. Bilici (2009). Processing of urea formaldehyde-based particleboard from hazelnut shell and improvement of its fire and water resistance. *Fire and Materials 33:413-419.*

18. Guru M., Shahin M., Tekeli S. and H. Tokgoz (2009). Production of polymer matrix composite particleboard from pistachio shells and improvement of its fire resistance by fly ash. *High Temperature Materials and Processes 28(3):191-195.*

19. Jhala A.J. and L.M. Hall (2010). Flax (*Linum usitatissimum* L.): Current uses and future applications. *Austarlian Journal of Basic and Applied Sciences 4(9):4304-4312.*

20. Jhala A.J. (2010). Environmental biosafety of genetically engineered crops: flax (*Linum usitatissimum* L.) as a model sysyem. *Ph.D Thesis*, Department of Agricultural, Food and Nutritional science, University of Alberat, Australia.

21. Naughton A. and M. Fan (2010). The application of biocomposites in the construction industry. *World Conference on Timber Engineering, pp:1-6.*

22. Gralehno M.D., Nazerian M. and A. Bayatkashkooli (2011). Influence of utilisation of bagasse in surface layer on bonding strength of three-layered particleboard. *European Journal of Wood and Wood Products* 69:533-535.

23. Gralehno M.D., Madhouchi M., Tabarsa T. and M. Nazerian (2011). The manufacture of particleboards using mixture of reed (surface layer) and commercial species. *European Journal of Wood and Wood Products 69(3):341-344*

24. Ortuno T.G., Rodriguez J.A., Ferrandez-Garcia M.T., Ferrandez-Villena M. and C.E. Ferrandez-Garcia (2011). Evaluation of the physical and mechanical properties of particleboard made from giant reed (*Arundo Donax* L.). *Bioresources 6(1):477-486.*

25 Tabarsa T., Ashori A. and M. Gholamzadeh (2011). Evaluation of surface roughness and mechanical properties of particleboard panels made from bagasse. *Composites, Part B: Engineering 42:1330-1335.*

26 Pirayesh H., Khazaeian A., Khanjanzadeh H. and A. Bahrinejad (2011). Optimum condition of manufacturing wood-based composite from mixture of wood particles/walnut and almond shells. *Key Engineering Materials 471-472: 91-96.*

27. Cuk N., Kunover m. and S. Medved (2011). Properties of particleboards made by using an adhesive with added liquefied wood. Materiali in technologije 45(3): 241-245.

28. Islam M., Alam M. and M. Hannan (2012). Multiresponse optimization based on statistical response surface methodology and desirability function for the production of particleboard. *Composites Part B 43:861-868.*

29 Muller C., Schwarz U. and V. Thole (2012). Zur nutzung von agrar-reststoffen in der holzwerkstoffindustrie. *European Journal of Wood and Wood Products* 70:587-594.

30. Pirayesh H., Khazaeian A. and T. Tabarsa (2012). The potential for using walnut (Juglans regia L.) shell as a raw material for wood-based particleboard manufacturing. *Composites: Part B. 3276-3280.*

31. Pirayesh H., Khanjanzadeh H. and A. Salari (2012). Effect of using walnut/almond shells on the physical, mechanical and formaldehyde emission of particleboard. *Composites: Part B. 45(1):858-863.*

32. Ghalehno M.D. and M. Nazeriasn (2012). Physical and mechanical properties of particleboard from rosell (*Hibiscus sabdariffa*) stalks and eucalyptus (*Eucalyptus camaldulensis*) wood particles. *Wood Material and Science Engineering 7(1):25-29.*

33. Nikvash N., Kharazipour A. and M. Euring (2012). Effects of wheat protein as a biological binder in the manufacture of particleboard using a mixture of canola, hemp, bagasse and commercial wood. *Forest Products Journal 62(1):49-57.*

34. Nasser R.A.S. (2012). Physical and mechanical properties of three layered particleboard manufactured from the tree pruning of seven wood species. *World Applied Sciences Journal 19(5):741-753.*

35. Ozen E., Efe H., Goktas O., Kasal A. and M. Yeniocak (2013). Bending moment capacity of L-type furniture corner joints constructed of particleboard produced from vine prunings residues. *African Journal of Agricultural Research* 8(16):1442-1448.

36. Teli M.D. and S.P. Valia (2013). Acetylation of jute fiber to improve oil absorbency. *Fibers and Polymers 14(6):915-919.*

37. Aghakhami M., Enayati S.H., Nadalizabeth H. and H. Pirayesh (2013). The potential for using the sycamore leaves in manufacturing particleboard. *International Journal of Environmental Science and Technology 5: 25-32.*

38. Esquena J. and J. Vilasau (2013). Formulation, characterization and property control of paraffin emulsions. *Emulsion Formation and Stability 169-197.*

39. Sahin H.T. and M.B. Arslan (2013). Properties of orchard pruning and suitability for composite production. *Science and Engineering of Composite Materials 20(4):337-342.*

40. Pirayesh H., Moghadam I. and A.H. Tichi (2013). Some physico-mechanical properties of medium density fiberboards based on mixed hardwood particles and chopped sycamore leaves bonded with MDI resin. *Journal of the Indian Academy of Wood Science 10(2):155-159.*

41. Aghakhami M., Enayati S.H., Nadalizabeh H. and H. Pirayesh (2014). The potential for using the sycamore leaves in manufacturing particleboard. *International Journal of Environmental science and Technology 11(2):417-422.*

42. Khanjanzadeh H., Pirayesh H. and S. Sepahvand (2014). Influence of walnut shell as filler on mechanical and physical properties of MDF improves by nano-SiO2. *Journal of the Indian Academy of Wood Science 11(1):15-20.*

43. Yeniocak M., Goktas Y.M., Erdil O., Ozen E and M.H. Alma (2014). Investigating the use of vine pruning stalks as raw material for particleboard manufacturing. *Wood Research 59(1):167-176.*

44. Guru M., Karabulut A., Aydin M. and I. Bilici (2015). Processing of fireproof and high temperature durable particleboard from rice husk. *High Temperature Materials and Processes 34(6):509-604.*

45. Guruler H., Balli S., Yeniocak M., and O. Goktas (2015). Estimation the properties of particleboards manufactured from vine prunnings using artificial neural networks. *Mugla Journal of Science and Technology 1(1):24-33.*

46. Mohareb A., Hassanin A., Badr A., Hassan A. and R. Farag (2015). Novel composite sandwich structure from green materials: maechanical, physical and biological evaluation. *Journal of Applied Polymer Science, DOI 42253.*

47. Papadopoulou E, Bikiaris D., Chysafis K. and V. Gronberg (2105). Value-added industrial products from bast fiber crops. *Industrial Crops and Products 68:116-125.*

48. Keskin H., Kucuktuvek M. and M. Guru (2015). The potential of poppy husk for manufacturing wood based particleboards. *Construction and Building Materials 95:224-231.*

49. Pirayesh H., Moradpour P. and S. Sephvand (2015). Particleboard from wood particles and sycamore leaves: physic-mechanical properties. *Engineering in Agriculture, Environment and Food. 8(1):38-43*

50. Paridah M., Juliana A., Zaidon A. and H.P.S. Abdul Khalil (2015). Nonwood based composites. *Curr Forestry Rep 1:221-238.*

51. Sam-Brew S. and G.D. Smith (2015). Flax and hemp fiber reinforced particleboard. *Industrial Crops and Products 77:940-948.*

52. Singh V.K. (2015). Mechanical behavior of walnut shell properties reinforced biocomposite. *Science and Engineering of Composite Materials 22(4):383-390.*

53. Teli M.D. and S.P. Valia (2015). Modification of biomaterials fro functional application. *Cellulose Chemistry and Technology 49(1):3-6.*

54. Kusumah S., Unemura K. and K. Kanayama (2016). Utilisation of sweet sorghum bagasse and citric acid for manufacturing of particleboard. *Industrial Crops and Products 84:34-42.*

55. Bharath K. and S. Basavarajappa (2016). Applications of biocomposite materials based on natural fibers from renewable resources. A review. *Science and Engineering of Composite Materials 23(2): 123-133.*

56. Nasser, A.R., Salem M., Al-Mefarrej and I.Atrf (2016). Use of tree pruning wastes for manufacturing of wood reinforved cement composites. *Cement and Concrete Composites 72:246-256.*

57. Arslan M. and H. Sahin (2016). Properties of particleboards from poppy stalks. *Journal of Advances in Biology and Biotechnology 6(2):1-6.*

58. Wong K.K. (2012). Optimising resin consumption, pressing time and density of particleboard made of mixes of hardwood sawmill residue and custom flaked softwood. *Ph.D Thesis, RMIT University.*

59. Parvin S. (2014). Physico-mechanical properties of chemically treated jute fibre reinforced plastic composites. *M.Phil Thesis*, University of Dhaka, Bangladesh.

60. Kargarfard A. (2013). The effect of cotton stalk storage time on physical and mechanical properties of produced particleboard. *Journal of Natural Environment, Iranian Journal of Natural Resources 65(4:453-460.*

61. Mateu, A.M (2015). Tableros de posidonia oceanic y particulas de Madera de pino gallego. *Ph.D Thesis*, Universitad de Alicante, Brasil.

62. Dukarska D., Czarnecki R., Dziurka D. and R. Mirski (2017). Construction particleboards made from rapeseed straw glued with hybrid pMDI/PF resin. *European Journal of Wood and Wood Products 75:175-184.*

63. Lenormand H., Gle P. and N. Leblanc (2017). Inestigation of the acoustical and thermal properties of sunflower particleboards. *Acta Acoustica united with Acustica 103:149-157.*

64. Sahin A., Tasdemir H., Karabulut A. and M. Guru (2017). Mechanical and thermal properties of particleboard manufactured from waste peachnut shell with glass powder. *Arabian Journal for Science and Engineering pp:1-10.*

65. Arslan B. and H.T. Sahin (2014). A study on alternative raw material source for giant reed. *Journal of Natural and Applied Science 18(3):90-96.*

66. Ayrilmis N., Karimi M. and H. Ashtiani (2017). Technological properties of cement bonded composite board produced with the main veins of oil palm particles. *BioResources 12(2):3583-3600.*

67. Astari L., Prasetiyo K. and S. Kusumah (2016). Bulk density, particle distribution and moisture content of particleboard from cotton stalk. *The 6th International Symposium for Sustianable Humanosphare*, Science School, Bogor.

68. Sam-Brew S. and G.D. Smith (2017). Flax shive and hemp hurd residues as alternative raw material for particleboard production. *BioResources 12(3):5715-5735.*

69. Cabral M.R., Fiorelli J., Cravo J.C.M. and H. Savastano (2017). Particleboard with shavings of pinus ssp and sisal fiber. *Scientia Forestalis/Forest Sciences 45(114)*

70. Bekhta P., Salca E and R. Kozak (2018). Properties of wood straw composites bonded with mofified UF adhesive and pretreated straw particles. *ProLigno 14(1):37-41.*

71. Ragil W., Kusuma D. and M. Nanang (2018). Properties of citric acid bonded composite board from elephant dung fibers. *Journal of the Korean Wood Science and Technology 46(2):132-142.*

72. Sepahvand D. and M. Pirayesh (2018). Supplementation of natural tannins as an alternative to formaldehyde in urea and melamine formaldehyde. Resins used in MDF production. *Drvna Industrija 69(3):215-221.*

73. Widyorini R, Dewi G. Nugroho W. and M. Tejolaksono (2018). Properties of citric acid bonded composite board from elephant dung fibers. *Journal of the Korean wood Science and Technology 4692):132-142.*

74. Kusumah S.S. (2017). Development of particleboard made from swet sorghum bagasse and citric acid. *Ph.D Thesis*, Kyoto University, Japan.

75. Fasdemir H., Sahin A. and A. Karabulut (2019). Production of useful composite particleboard from waste orange peel. *Cellulose Chemistry and Technology 53(5-6):517-526.*

76. Alotaibi M., Alshamaari B. and M. Jawai (2019). Characterisation of natural fiber obtained from different parts of date palm tree. *International Journal of Biological Macromolecules 135:69-76.*

77. Brzyski P., Kosinski P., Zgliczyska A. and J. Poko (2019). Mass transport and thermal conductivity properties of flax shives for use in constructiuon industry. Journal of Natural Fibers, doi: 10.1080/15440478.2019.1675216.

78. Mirski R., Bekhta P. and D. Dziurka (2019). Relationships between thermoplastic type and properties of polymer triplicate boards. Polymers 11:1750

79. Shuvo, I. (2020). Hollow canola-wood thermoset composites from concept to completion: fabrication, performance, failure and reliability nalysis. *SN Applied Sciences 2:2087.*

80. Jorda, J., Kain, G., Barbu, M.C., Haupt, M and L. Kristak (2020). Investigation of 3D moldability of flax fiber reinforced beech plywood. *Polymers 12, 2852.*

81. Akbulut, T., Ayrılmış N., Özden, O. and E. Avcı (2020). Potential application of fibrous sludge waste from paper mills in particleboard production. *Forestist 2021: 71(1): 54-61.*

82. Istek, A., Celik, S. and I. Ozlusoylu (2020). Effect of Chainsaw Chips Use on Some Panel Properties in Particleboard Production. *Journal of Bartin Faculty of Forestry 22 (3): 886-896.*

Για την εργασία μου με τίτλο: Determination of surface area and pore volume of holocellulose and chemically modified wood flour using the nitrogen adsorption technique. Holz als Roh-und Werkstoff 61(6):453-456 41 βιβλιογραφικές αναφορές

1. Obataya E (2005). Reversible volumetric changes of acetylated wood with after-treatments. *Wood Science and Technology 39: 472–483.*

2. Fahlen J. (2005). The cell wall ultrastructure of wood fibres-effects of the chemical pulp fibre line. *Ph.D Thesis, KTH Fibre and Polymer Technology, Stockholm, Sweden.*

3. Saito T., Kimura S., Nishiyama Y. and A. Isogai (2007). Cellulose nanofibers prepared by TEMPO-mediated oxidation of native cellulose**.** *Biomacrumolecules 8 (8): 2485- 2491***.**

4. Dong-Hui XU (2008). Artemisia Liu timber properties research. M.Sc Thesis. Inner Mongolia Agricultural University.

5. Ding WP, Koubaa A, Chaala A, Belem T and C. Krause (2008). Relationship between wood porosity, wood density and methyl methacrylate impregnation rate. *Wood Material Science and Engineering 3(1-2):62-70.*

6. Dieste A. (2009). Wood-water relationships in wood modified with 1,3 dimethylol-4,5-dihydroxyl ethylene urea (DMDHEU). *Ph.D Thesis,* Georg-August Universitat, Gottingen, Germany.

7. Ding P.W.D. (2009). Study of physical and mechanical properties of hardened hybrid poplar wood. *Doctorate Thesis, Universite du quebec en Abitibi-Temiscamingue.*

8. Adani F., Papa G., Schievano A., Cardinale G., D'imporzano G. and F. Tambone (2011). Nanoscale structure of the cell wall protecting cellulose from enzyme attack. *Environmental Science and Technology 45(3): 1107-1113.*

9. Al-Mashaqbeh O., R.G. McLaughlan (2012). Non-equilibrium zinc uptake onto compost particles from synthetic stormwater. *Bioresource Technology 123:242-248.*

10. Svensson A. (2012). Nanocomposites made from nanoporous cellulose fibres. *M.Sc Thesis*, KTH Royal Institute of Technology, Schools of Chemical Science and Engineering, Sweden.

11. Ray A.E., Hoover A.N., Nagle N., Chen X. And G.L. Gresham (2013). Effect of pelleting on the recalcitrance and bioconversion of dilute-acid pretreated corn stover under low and high solids conditions. *Biofuels 4(3):271-284.*

12. Zauer M., Pfriem A. And A. Wagenfuhr (2013). Toward improved understanding of the cell wall density and porosity of wood determined by gas pycnometry. *Wood Science and Technology 47(6):1197-1211.*

13. Izadifar A. (2013). Ultrasound pretreatment of wheat dried distillers grain for extraction of phenolic compounds. *Ultrasonics Sonochemistry 20:1359-1369.*

14. Hossain G.M. and R.G. McLaughan (2014). Effect of wood particle size on uptake and desorption study of chlorophenols by woody materials. *Enironmental Technology 35(12):1484-1490.*

15. Williams D.L. and D.B. Hodge (2014). Impacts of delignification and hot water pretreatment on the water induced cell wall swelling behavior of grasses and its relation to cellulolytic enzyme hydrolysis and binding. *Cellulose 21:221-235.*

16. Sjostedt A. (2014). Preparation and characterization of nanoporous cellulose fibers and their use in new material concepts. *Ph.D Thesis, KTH Royal Institute of Technology, Sweden.*

17. Barakat A., Laigle C., Sohly A., Arancon R, De vries H. and R. Luque (2014). Mechanical pretreatments of lignocellulosic biomass: Towards facile and environmentally sound technologies for biofuels production. *RCS Advances 4(89):48109-48127.*

18. Liu Z., Qin L., Li B and Y. Yuan (2015). Physical and chemical characterizations of corn stover from leading pretreatment methods and effects on enzymatic hydrolysis. *ACS Sustainable Chemistry & Engineering 3:140-146.*

19. Bedane A.H., Xiao H., Eic M. and M.F. Farahani (2015). Structural and thermodynamic characterization of modified fiber based materials and related interactions with water vapor. *Applied Surface Science 351:725-737.*

20. McLaughlan R.G., Hossain S.M.G., Othman A. and A. Mashaqbeh (2015). Zinc sorption by permanganate treated pine chips. *Journal of Environmental Chemical Engineering 3:1539-1545.*

21. Mamleeva N. and V. Lunin (2016). Adsorption of phenol on wood surfaces. *Physical Chemistry of Surface Phenomena 90(3):436-442.*

22. Donaldson L.A., Kroese H., Hill S. and R. Franich (2015). Detection of wood cell wall porosity using small carbohydrate molecules and congocal fluorescence microscopy. *Journal of Microscopy 1:1-9.*

23. Gignac M. (2013). Les effects du mentorat sur le deneloppment de la competence en gestion de classe. *M.Sc Thesis*, L' Universite Du Quebec

24. Hossain S.M.G. (2012). Treatment of organic contaminants from water using an intergrated sorption-oxidation system. *Ph.D Thesis*, University of Technology, Sydney, Australia.

25. Hossain S.M.G. (2012). Sorption of chlorophenols from aqueous solution by granular activated carbon, filter coal, pine and hardwood. *Environmental Technology 33(16):1839-1846.*

26. Zhe W. and W. Ximing (2014). Research progress of multi-scale pore structure and characterization methods of wood. *Scientia Silvae Sinicae 50(10):101-114.*

27. Zhu J., Li X., Wang Z., Du M. and L. Chen (2017). Effects of enzymatic hydrolysis on cell wall structure of masson pine and preparation of microfibrilled cellulose. *Chemistry and Industry of Forest Products 37(3):82-88.*

28. Chen Y., Jia Z. and A. Shar (2017). Response of exogenous zinc availability and transformation to maize straw as affected by soil organic matter. *Soil Science of America Journal 81(4):52-63.*

29. Wang Z., Wang X. and Z. Chen (2017). Water states and migration in xinjiang poplar and Mongolian scotch pine monitored by TD-NMR during drying. *Holzforschung 72:113-123.*

30. Segmehl J., Lauria A., Keplinger T. and I. Burgert (2018). Trackinh of short distance transport pathways in biological tissues by ultra-small nanoparticles. *Frontiers in Chemistry, volume 6, article 28, pp 1-9.*

31. Rodrigue, S. (2017). Chemical reactivity and supramolecular susceptibility of hardwood celluloses towards succinic anhydride. *International Journal of Biological and Chemical Sciences.*

32. Shi J. and S. Avramidis (2018). Dried cell wall nanopore configuration of Douglas fir, western red cedar and aspen heartwoods. *Wood Science and Technology 52:1025-1037.*

33. Safou-Tchiama R. and A. Akagah (2017). Chemical reactivity and supramolecular susceptibility of hardwood cellulosed towards succinic anhydride. *International Journal of Biological Chemistry and Technology 11(6):3110-3131.*

34. Broda M., Curling S., Spear M. and C.A.S. Hill (2019). Effect of methytrimethoxylane impregnation on the cell wall porosity and water vapour sorption of archeological waterlogged oak. Wood Science and Technology 53 (3): 703-726.

35. Wang Q., Chang S., Tan Y. and J. Hu (2019). Mesopore structure in *Camelia Oleifera shell. Photoplasma*

36. Guo J. and Y. Yin (2019). Deterioration of the cell wall in waterlogged wooden archeological artifacts, 2400 years old. *IAWA Journal 40:820-844.*

37. Tran T., Thai H. and G. Nguyen (2019). Plasma treatment and TEOS modification on wood flour applied to composite of polyvinyl chloride/wood flour. *Advances in Polymer Technology, article ID 3974437, 8 pages.*

38. Thybring E., Glass S. and S. Zelinka (2019). Kinetics of water vapour sorption in wood cell walls: state of the art and research needs. *Forests, 10, 704, doi 3390/f10080704.*

39. Mamleeva, N., Babayeva, N., Kharlanov, A. and V. Lunin (2020). Destruction of lignin during the ozonation of pine wood. *Russian Journal of Plysical Chemistry 93(1):28-33.*

40. Yan, J., Oyedeji O. and J. Leal (2020). Characterizing variability in lignocellulosic biomass - A review. *ACS Sustainable Chemisyty an Engineering*

41. Zhao X., Li, K. and Y. Wang (2020). High-strength polylactic acid (PLA) biocomposites reinforced by epoxy-modified pine fibers. *ACS Sustainable Chemistry & Engineering*

Για την εργασία μου με τίτλο: The sorption of water vapour by anhydride modified softwood. Wood Science and Technology 37(3-4): 221-231 85 βιβλιογραφικές αναφορές

1. Hill CAS, Forster SC, Farahami MRM, Hale MD, Ormondroyd GA and GR Williams (2005). An investigation of cell wall micropore blocking as a possible mechanism for the decay resistance of anhydride modified wood. *International Biodeterioration & Biodegradation* 55: 69–76.

2. Pena W.G., Breese M.C.B. and M.D. Hale (2005). Changes in selected properties of heat treated wood: a study of the mechanisms. *NATO –CCMS and Science Committee Workshop on desertification in the Mediterranean Region. A security issue.* Valencia 2-5 December.

3. Hill CAS (2005). Acetylated wood: The science behind the material. *Proceedings of the 2nd European Conference on Wood Modification.* Gottingen, Germany. Pp:1-15.

4. Xie Y. (2005). Surface properties of wood modified with cyclic N-methylol compounds. *Ph.D Thesis,* Georg-August Universitat Gottingen, Germany.

5. Hill CAS, Michael D. Hale, Graham A.Ormondroyd, Jin H. Kwon and Simon C. Forster (2006). Decay resistance of anhydride-modified Corsican pine sapwood exposed to the brown rot fungus *Coniophora puteana.* *Holzforschung* 60 (6): 625-629.

6. Krause A. (2006). Holzmodifizierung mit N-Methylolvernetzen. *Ph.D Thesis,* Georg-August-Universitat, Gottingen, Germany.

7. Weigenand O. (2006). Wood modification with different types of silicon compounds. *Ph.D Thesis,* Georg-August Universitat Gottingen, Germany.

8. Epmeier H, Johansson M, Kliger R and M. Westin (2007). Material properties and their interrelation in chemically modified clear wood of Scots pine. *Holzforschung* 61 (1): 34-42.

9. Hill, CAS (2008). The reduction in the fibre saturation point of wood due to chemical modification using anhydrides reagents: a reappraisal. *Holzforschung 62: 423-428.*

10. Dieste, A., Krause, A. and H. Militz, H. (2008). Modification of Fagus sylvatica (L.) with 1,3-dimethylol-4,5- dihydroxyethylene urea (DMDHEU): Part 1. Estimation of heat adsorption by the isosteric method (Hailwood-Horrobin model) and by solution calorimetry. *Holzforschung* 62 (5):577-583.

11. Thygesen, L.G. and T. Elder (2008). Moisture in untreated, acetylated, and furfurylated Norway spruce studied during drying using time domain NMR. *Wood and Fiber Science 40(3):309-320.*

12. Adebayo, A.B., Dawson-andoh, B., George, B.P. Nkansah, K. and C. Medley (2008). Adsorption and desorption performance of two commercial wood plastic composites. *Forest Products Journal 58(9):32-36.*

13. Hill, CAS (2008). Fibre saturation point of lignocellulosic materials. Conference on 'Towards understanding wood, fibre and paper-deeper knowledge through modern analytical tools. . *Cost Action E50,* Abo, Turkey. Pp: 38-39.

14. Furmaniak S., Terzyk A.P. and P.A. Gauden (2008). Interrelation between steam sorption by wood and temperature. *Drewno-Wood 51(180):15-29.*

15. Dieste A., Krause A., Mai C., Sebe G., Grelier S. and H. Militz (2009). Modification of *Fagus sylvatica* L. with 1,3-dimethylol-4,5- dihydroxy ethylene urea (DMDHEU). Part 2: Pore size distribution determined by differential scanning calorimetry. *Holzforschung 63(1): 89-93.*

16. Hill CAS., Norton A. and G. Newman (2009). The water vapor sorption behavior of natural fibers. *Journal of Applied Polymer Science 112: 1524-1537.*

17. Thygesen, L.G. and T. Elder (2009). Moisture in untreated, acetylated, and furfurylated Norway sprucemonitored during drying below fiber saturation point using time domain NMR. *Wood and Fiber Science 41(2):1-7.*

18. Zaihan J., Hill CAS, Curling S., Hashim WS and H. Hamdan (2009). Moisture adsorption isotherms of *Acacia mangium* and *Endospermum malaccenese* using dynamic vapour sorption. *Journal of Tropical Forest Science 21(3):277-285.*

19. Zaihan J, Hill CAS and S. Curling (2009). Moisture adsorption isotherms of wood studied using a dynamic vapour sorption apparatus. *Internation Researc Group on Wood Preservation.* WP 09-20398, Beijing, China.

20. Dieste A. (2009). Wood-water relationships in wood modified with 1,3 dimethylol-4,5-dihydroxyl ethylene urea (DMDHEU). *Ph.D Thesis*, Georg-August Universitat, Gottingen, Germany.

21. Thygesen L.G., Engelund E.M. and P. Hoffmeyer (2010). Water sorption in wood and modified wood at high values of relative humidity. Part

I: Results for untreated, acetylated and furfulylated Norway spruce. *Holzforschung 64:315-323.*

22. Hill CAS and M. Hughes (2010). Natural Fibre Reinforced Composites Opportunities and Challenges. *Journal of Biobased materials and Bioenergy 4(2):148-158.*

23. Dieste A., Krause A., Mai C. and H. Militz (2010). The calculation of EMC for the analysis of wood/water relations in *Fagus stlvatica* L. modified with 1,3-dimethylol-4,5-dihydroxyethyleneura. *Wood Science and Technology 44:597-606.*

24 Tomak E.D. and U.C. Yilitz (2010). Chemical modification of wood. *Ulusal Karadeniz Ormanclik Kongresi, Sayfa. Pp: 1681-1690.*

25 Wimmer R. and T. Schmid (2010). Dynamic vapour sorption analyses of wood – a new approach to classical problems. *Proceedings of the International Convention of society of Wood Science and Technology and United Nations Economics Commission for Europe – Timber Committee.* Geneva, Switzerland, Pp. 1-5.

26. Engelund E.T., Klamer M. and T.M. Venas (2010). Acqisition of sorption isotherms for modified woods by the use of dynamic vapour sorption instrumentation. Principles and practise. *International Research Group on Wood Preservation,* France. IRG/WP 10-40518.

27. Xie Y., Hill CAS., Xiao Z., Mai C. and H. Militz (2011). Dynamic water vapour sorption properties of wood treated with glutaraldehyde. *Wood Science and Technology 45:49-61.*

28 Xie Y., Hill CAS, Jalahudin Z., Curling SF., Anandjiwala RD., Norton AJ. and G. Newman (2011). The dynamic water sorption behaviour of natural

fibres and kinetic analysis using the parallel exponential kinetics model. *Journal Material Science 46:479-489.*

29. Wanj J., Muckopadhyahy P. and P. Morris (2011). Wood sorption, capillary condensation and their implications for building envelopes of wood construction. *Proceeding of the 13th Canadian Conference on Building Science and Technology*. Winnipeg, Manitoba, Canada. Pp. 1-13.

30. Bratasz L., Kozlowska A. and R. Kozlowski (2012). Analysis of water adsorption by wood using the Guggenheim-Anderson de Boer equation. *European journal of Wood and Wood Products 70:445-451.*

31. Yang Q. (2012). Dimensional stability of chemical modified aspen by using oxidized glucose. *M.Sc Thesis*, Lulea University of Technology, Department of Engineering Science and Mathematics.

32. Murata K., Watanabe Y. And T. Nakano (2013). Effect of thermal treatment of veneer on formaldehyde emission of poplar plywood. *Materials 6:410-420.*

33. Karunanithy C., Muthukumarappan K. And A. Donepudi (2013). Moisture sorption characteristics of corn stover and big bluestem. *Journal of Renewable Energy, Article ID 939504.*

34. Thybring E.E. (2013). The decay resistance of modified wood influenced by moisture exclusion and swelling reduction. *International Biodeterioration & Biodegradation 82:87-95.*

35. Popescu C. and C.AS. Hill (2013). The water vapour adsorption-desorption behavior of naturally aged *Tilia Cordata* Mill Wood. Polymer *Degradation and Stability 98:1804-1813.*

36. Samaniego M.R., Yardama V., Lowell E. and R.E. Herrera (2013). A review of wood thermal pretreatments to improve wood composite properties. *Wood Science and Technology 47(6):1285-1319.*

37. Hisham H.N., Hale M. and A.L. Norasikin (2013). Equilibrium moisture content and moisture exclusion efficiency of acetylated rattan. *Journal of Tropical Science 26(1):32-40.*

38. Popescu C.M, Hill C.A.S., Curling S., Ormondroyd G. and Y. Xie (2013). The water vapour sorption of acetylated birch wood: how acetylation affects the sorption isotherm and accessible hydroxyl contents. *Journal of Materials Science 49(5):2362-2371.*

39. Wang J., Mukhopadhyaya P. and P. Mprris (2014). Sorption and capillary condensation in wood and the moisture content of red pine. *Journal of Building Physics 37(4):327-347.*

40. Ringman R., Pilgard A., Brishke C. and K. Richter (2014). Mode of action of brown rot decay resistance in modified wood: *A review. Holzforschung 68(2):239-246.*

41. Sadeghifar H., Dickerson J.P. and D. Argyropoulos (2014). Quantitative P NMR analysis of solid wood offers an insight into the acetylation of its components. *Carbohydrate Polymers 113:552-560.*

42. Hill CAS, Popescu C., Rautkari L., Curling S., Ormondroyd G., Xie Y and Z. Jahaludin (2014). The role of hydroxyl groups in determing the sorption properties of modified wood. *The International Research Group on Wood Protection. 45th IRG annual meeting, St George Utah, USA.*

43. Gu X., Liu L., You C., Cheng C and J. Yao (2015). Chemical modification of poplar wood in gas and liquid phase acetylation. *Wood Research 60(2):247-254.*

44 Esteban L.C., Simon C., Fernandez F., Palacios P., Sampredo R., Eugenio M. and R. Hosseinpourpria (2015). Juvenile and mature wood of *Abies pinsapo* Boisser: sorption and thermodynamic properties. *Wood Science and Technology 49(4):725-738.*

45. Tomak E.D. and A. Temiz (2015). Effect of chemical modification on water absorption, dimensional stability and biological durability of wood. *Journal of Faculty of Engineering and Architecture of Gazi University, 29(4):769-776.*

46. Kocaefe D., Huang X. and Y. Kocaefe (2015). Dimensional stabilization of wood. *Current Forestry Reports 1(3):151-161.*

47. Yin J., Song K., Lu Y., Zhao G. and Y. Yin (2015). Comparison of changes in micropores in the wood cell walls of sapwood and heartwood. *Wood Science and Technology 49(5):987-1001.*

48. Ormondroyd G., Spear M. and S. Curling (2015). Modified wood: review of efficacy and service life testing. *Proceedings of the Institution of Civil Engineers*. Paper 1400072

49. Hosseinpourpria R. and C. Mai (2016). Mode of action of brown rot decay resistance of acetylated wood: resistance to Fenton's reagent. *Wood Science and Technology 50(2):413-426.*

50. Mamleeva N. and V. Lunin (2016). Adsorption of phenol on wood surfaces. *Physical Chemistry of Surface Phenomena 90(3):436-442.*

51. Himmel S. and C. Mai (2016). Water vapour sorption of wood modified by acetylation and formalization – Analysed by a sorption kinetics model and thermodynamiv considerations. *Holzforschung 70(3):203-213.*

52. Popescu C.M., Hill C.A.S. and M.C. Popescu (2016). Water adsorption in acetylated birch wood evaluated through near infrared spectroscopy. *International Wood Products Journal 7(2):61-65.*

53. Yue K., Liu W., Chen Z., Lu X and W. Lu (2016). Investigation of the creep property of fast growing poplar wood modified with low molecular weight resins. *BioResourses 11(1):1620-1633.*

54. Garcia C.S. (2015). Determinatiom de la higroscopidad y comportamiento thermodinamico de la Madera juvenile y madura a traves de sus isothermas de sorcion. *Tesis Doctoral, Universidad Politecnika de Madrid, Spain.*

55. Neimsuwan T. (2007). The influence of selected wood characteristics and composites production parameters on the sorption behavior of wood materials. *Ph.D Thesis*, University of Tennessee-Knoxville, USA.

56. Himmel S. and C. Mai (2014). Effects of acetylation and formalization on the dynamic water sorption behavior of wood. *Holzforschung 69(5):633-643.*

57. Chai Y., Liu J., Wang Z. and Y. Zjao (2017). Dimensional stability and mechanical properties of plantation poplar wood esterified using acetic anhydride. *BioResources 12(1):912-922.*

58. Li T., Cheng D, Avramidis G., Walinder M and D. Zhou (2017). Response of hygroscopicity to heat treatment and its relation to durability of thermally modified wood. *Construction and Building Materials 144:671-676.*

59. Mantanis G. (2017). Chemical modification of wood by acetylation or furfurylation: A review of the present scaled-up technologies. *BioResources 12(2):4478-4489.*

60. Ringman R., Pilgard A., Brischke C. and K. Richter (2017). Incipient rot decay in modified wood: patterns of mass loss, structural integrity, moisture and acetyl content in high resolution. *International Wood Products Journal 8:172-182.*

61. Passarini L., Zelinka L.S., Glass S.V. and C.G. Hunt (2018). Effect of weight percent gain and experimental method on fiber saturation point of acetylated wood determined by differential scanning calorimetry. *Wood Science and Technology Wood Science and Technology 51(6): 1291-1305*

62. Bech G., Thybring E., Thygesen L. and C. Hill (2017). Characterisation of moisture in acetylated and propionylated radiate pine using low-field nuclear magnetic resonance relaxometry. *Holzforshung 72:225-233.*

63. Thybring E., Kymalainen M. and L. Rautkari (2018). Experimental techniques for characterizing water in wood covering the range from dry to fully water saturated. *Wood Science and Technology 52:297-329.*

64. Mantanis G. and H.T. Sahin (2017). Modification of wood by chemical processes: a review. *International Symposium on new horizons in Forestry, Instabul, Turkey, pp:272-280.*

65. Willems W. (2018). Hygroscopic wood moisture: single and dimerized water molecules at hydroxyl pair sites? *Wood Science and Technology 52:777-791.*

66. Hamid N., Hassan N., Tahir P. and S. Ujang (2017). Effectiveness of acetic, propionic and butyric anhydride to protect rubberwood from decay by white rot. *IOP Conference series: Materials Science and Engineering 368-012037.*

67. Li. L., Yuhong A. and X. Wang (2018). Recovery of thermally compressed scots pine wood. *BioResources 13(2):3793-3808.*

68. Shabir (Mahr) Muhammad (2017). Wood modification with titania and silica based precursors. *Ph.D. Thesis*, University of Gottingen, Germany.

69. Zelinka S.L., Glass S. and E.E. Thybring (2018). Myth versus reality: Do parabolic sorption isotherm models reflect actual wood-water thermodynamics? *Wood Science and Technology* 52(6): 1701-1706.

70. Beck G., Thybring E. and L. Thygesen (2018). Brown rot fungal degradation and de-acetylation of acetylated wood. *International Biodeterioration & Biodegradation 135:62-70.*

71. Beck G., Hegnar O., Fossdal G. and G. Alfredsen (2018). Acetylation of *Pinus radiate* delays hydrolytic depolymerisation by the brown rot fungus *R. palcenta*. *International Biodeterioration & Biodegradation 135:39-52.*

72. Hill CAS., Beck G., Larnoy E. and H. Militz (2018). Measuring the free hydroxyl content in wood modified by acetic or propionic anhydride. *9th European Conference on Wood Modification, Arnhem, Netherlands.*

73. Marsich L., Cozzarini L. and A. Ferluga (2018), The effect of acetylation on hybrid poplar after artificial weathering. *International Wood Products Journal 9:134-141.*

74. Elle O., Richter r., Vohland M. and A. Weigelt (2019). Fine root lignin content is well predictable with near-infrared spectroscopy. *Scientific Reports 9:6396.*

75. Popescu, C.M., Hill C.A.S. and D. Sun (2018). NIR and DVS to monitor sorption properties of thermal and chemical treated wood material. *World Conference on timber engineering- WCTE 2018*, pp:1-17.

76. Ringman R., Bech G. and A. Pilgard (2009). The importance of moisture for brown rot degradation of modified wood: A critical discussion. *Forests 10, 55, doi:10.3390.*

77. Olarinan S., Etiene C. and M. Ruggeberg (2019). Mechanical behavior of acetylated rubber wood subjected to artificial weathering. *Holzforschung 72:1005-1016.*

78. Yu W., Xu B., and X. Wang (2019). Effects of saturated steam treatment on the cell wall mechanics and moisture sorption properties of kenaf fibers. BioResources 15(1):159-171.

79. Kaldum C., Softje M., Namyslo J. and D. Kaufmann. Chemical improvement of surfaces. Part 5: surfactants as structural lead for wood hydrophobisation-covalent modification with p-alkylated benzoates. *Holzforschung*.

79. Bulund H. (2019). Sorptionsegenkaper for acetylerat tra matning av sorptionsisotermer och sorptionsentalpi. *Ph.D Thesis*, Lund University, Lund, Finland.

80. Marfo ED. and D.A. Darkwa (2019). Evaluating the dependence on dimensional stability of chemically modified Celtis milbraedtii. UDS International Journal of Development (UDSUD) 6(3):7-16.

81. Brischke, C. and G. Alfredesen (2020). Wood-water relationships and their role for wood susceptibility to fungal decay. *Applied Microbiology and Biotechnology*

82. Taghiyari H., Esmailpour A., Adamopoulos S., Zereshki K. and R. Hosseinpourpia (2020). Shear strength of heat treated solod wood bonded with polyvinyl acetate reinforced by nanowollastonite. *Wood Research 65(2): 183-194.*

83. Thybring E., Piqueras S., Tarmian a. and I. Burgert (2020). Water accessibility to hydroxyls confined in solid wood cell walls. *Cellulose*

84. Gaitan-Alvarez, J., Berrocal, A., Mantanis, G., Moya, R. and F. Araya (2020). Acetylation of tropical hardwood species from forest plantations in Costa Rica: an FTIR spectroscopioc analysis. Journal of Wood Science 66:49.

85. Ponnucharmy, V., Sandak, A. and J. Sandak (2020). Multiscale modelling investigation of wood modification with acetic anhydride. *Royal Society of Chemistry doi:10|1039|d0cp05165a.*

Για την εργασία μου με τίτλο: Bamboo chips (Bambusa vulgaris) as an alternative lignocellulosic raw material for particleboard manufacture. Holz als Roh-und Werkstoff 62(1):36-39 78 βιβλιογραφικές αναφορές

1. Zheng Y, Pan Z, Zhang R, Jenkins BM and S. Blunk (2006). Properties of medium-density particleboard from saline Athel wood**.** *ASAE: The Society for engineering in agricultural, food and biological systems.* Paper number: 056128.

2. Zheng Y, Pan Z, Zhang R, Jenkins BM and S. Blunk (2006). Properties of medium-density particleboard from saline Athel wood. *Industrial Crops and Products* 23 (2006) 318–326.

3. Ranita J., Martins J., Garrido N., Carvalho L. and C. Costa (2006). Influencia do ciclo de prensagem na qualidade do aglomerado de particulas de Madeira fabricado com um teor elevado de particulas resicladas. *Proceedings of the 2nd International Wood Conference on Environmentally-Compatible Forest Products.* Oporto, Portugal, Pp:355-363.

4. Pan Z, Zheng Y, Zhang R and B.M. Jenkins (2007). Physical properties of thin particleboard made from saline eucalyptus. *Industrial Crops and Products* 26 (2): 185-194.

5. Zheng Y, Pan Z, Zhang R, Jenkins BM and S. Blunk (2007). Particleboard quality characteristics of saline jose tall wheatgrass and chemical treatment effect. *Bioresources Technology* 23 98(6):1304-1310.

6. Calegari L., Haselein C.R., Scaravelli T.L., Santini E.J., Stangerlin D.M., Gatto D.A. and R. Trevisan (2007). Desempenho fisico-mecanico de paineis fabricados com bamboo em combinacao com Madeira. *Cerne Lavras 13(1):57-63.*

7. Νταλός Γ. (2007). Η χρήση των στελεχών ρίγανης (*Origanum vulgare* ssp.) ως πρώτη ύλη για την παραγωγή μοριοπλακών με αρωματικές ιδιότητες. *Πρακτικά 13ου Πανελληνίου Δασολογικού Συνεδρίου.* Καστοριά, σελ:

8. Moreno PA, Garay DA, Duran JA and SW Valero (2007). Utilizacion de *bambusca vulgaris* como una alternative en la fabricacion de tableros aglomerados de particulas. *Rev. For Lat. 42 :31-50.*

9. Guntekin E. and B. Karakus (2008). Feasibility of using eggplant (*Solannm melongena*) stalks in the production of experimental particleboard. *Industrial Crops and Products* 27 (3): 354-358.

10. Erakhrumen A.A, Areghan S.E., Ogunleye M.B., Larinde S.L. and O.O. Odeyale (2008). Selected physico-mechanical properties of cement-bonded particleboard made from pine sawdust-coir mixture. *Scientific Research and Essay* 3(5): 197-203.

11. Guntekin E., Uner B., Sahin T. and B. Karakus (2008). Pepper stalks (*Capsicum annuum*) as raw material for particleboard manufacturing. *Journal of Applied Sciences 8(12):2333-2336.*

12. Kargafard A. and A. Nourbakhsh (2008). Utilisation of grape prunnings residues in middle layer of particleboard. *Pajouhesh & Sazandegi 78:186-191.*

13. Brink M. (2008). Bambusa vulgaris Schrad. Ex. J.C. Wendl. Record from Protobase. Louppe D., Oteng-Amoako A.A. & Brink m. (editors). *PROTA (Plant Resources of Tropical Africa/Resources vegetales de l' Afrique tropicale.* Wageningen, Netherlands.

14. Traboulay E. (2008). The search for renewable non wood fibers-Implications for Trinidad and Tobacco. *USC Journal of Research 1:26-46.*

15. Guntekin, E., Uner, B. and B. Karakus (2009). Chemical composition of tomato (Solanum lycopersicum) stalk and suitability in the particleboard production. *Journal of Environmental Biology 30(5):731-734.*

16. Arruda, L.M. (2009). Propriedades de paineis aglomerados com resinas sinteticas a partir da mistura do bamboo *Gradua magna* Londono & Filgueiras e da Madeira de *Pinus taeda* L. *B.Sc Thesis.* Florestal da Universidade de Brasilia.

17. Wansanook K. and M. Sato (2009). Study on manufacture and properties of bamboo-chip binderless board. *Proceedings of the VIII Bamboo Congress.*

18. Czarnecki R. and D. Dukarska (2010). Estimating the possibilities of applying *Sida hermaphrodita* Rusby to the production of low density particleboards. *Annals of Warsaw University of Life Sciences-SGGW Forestry and Wood Technology 71:83-86.*

19. Gralehno M.D., Nazerian M. and A. Bayatkashkooli (2011). Influence of utilisation of bagasse in surface layer on bonding strength of three-layered particleboard. *European Journal of Wood and Wood Products* 69:533-535.

20. Gralehno M.D., Madhouchi M., Tabarsa T. and M. Nazerian (2011). The manufacture of particleboards using mixture of reed (surface layer) and commercial species. *European Journal of Wood and Wood Products 69(3):341-344.*

21. Colak S., Nemli G., Cenk D., Aydin I. and S. Demirel (2011). Utilisation potential of waste from window joints for particleboard. *Journal of Composite Materials 45(1):29-37.*

22. Ortuno T.G., Rodriguez J.A., Ferrandez-Garcia M.T., Ferrandez-Villena M. and C.E. Ferrandez-Garcia (2011). Evaluation of the physical and mechanical properties of particleboard made from giant reed (*Arundo Donax* L.). *Bioresources 6(1):477-486.*

23. Larrisa A.M., Del Menezzi C.H.S., Teixeira D.E. and P.C.D. Araujo (2011). Lignocellulosic composites from Brazilian giant bamboo (*Guadua magna*). Part 1: Properties of resin bonded particleboards. *Maderas: Ciencia y technologia 13(1):49-58.*

24. Flores J.A., Pastor J.J., Martinez-Gabarron A., Gimeno-Blanes F.J., Rodriguez-Guisado I. and M.J. Frutos (2011). *Arundo donax* chipboard based on urea-formaldehyde resin using 4 mm particle size meets the standard criteria for indoor use. *Industrial Crops and Products 34(3):1538-1542.*

25. Morais WWC (2011). Propriedades fisico-mecanicas de chapas aglomeradas produzidas com bamboo, pinus e eucalipto. *M.Sc Thesis*, Universidade Federal De Santa Maria, Brasil.

26. Flores J.A., Pastor J.J., Martinez-Gabarron A., Gimeno-Blanes F.J. and M.J. Funtos (2011). Pressure impact oo common reed particleboard manufacturing procedure. Systems Engineering Procedia 1:499-507.

27. Guo J. and M. Catchmark (2011). Surface area and porosity of acid hydrolyzed cellulose nonowhiskers and cellulose produced by *Gluconacetobacter xylinus*. *Carbohydrate Polymers 87:1026-1037.*

28. Muller C., Schwarz U. and V. Thole (2012). Zur nutzung von agrar-reststoffen in der holzwerkstoffindustrie. *European Journal of Wood and Wood Products* 70:587-594.

29. Rachtanapum P., Sattayarak T. and Ketsamak N. (2012). Correlation of density and properties of particleboard from coffee waste and urea formaldehyde and polymeric diphenyl diisocyantes. *Journal of Composite Materials 46:1839-1850.*

30. Nikvash N., Kharazipour A. and M. Euring (2012). Effects of wheat protein as a biological binder in the manufacture of particleboard using a mixture of canola, hemp, bagasse and commercial wood. *Forest Products Journal 62(1):49-57.*

31. Flores-Yepes J., and M.F. Fernandez (2012). Full recovery of Arudno donax particleboard from swelling test without waterproofing additives. *BioResources 7(4):5222-5235.*

32. Eshraghi A. and H. Hhademieslam (2012). Waste paperboard in composition panels. *Cellulose Chemistry and Technology 46(9-10):637-642.*

33. Das A.K., Billha M., Shmas I. and O. Hannan (2012). Physical and mechanical properties of bamboo wastage cement bonded board. *Journal of the Indian Academy of Wood Science 9(2):170-175.*

34. Nahar S. and M. Hasan (2013). Effect of Mimosa grafting on anatomy, chemical composition and tensile properties of bamboo fiber. *Engineering Journal 17(2):39-49.*

35. Goethem D., De Smedt S., Valcke R., Potters G. And R. Samson (2013). Seasonal, diural and vertical variation of chlorophyll fluorescence on *Phyllostachs hummils in Ireland. Plos One 8(8)1-9.*

36. Dziurka D. and R. Mirski (2013). Lightweight boards from wood and rape straw particles. *Drewno 56: 19-29.*

37. Yang F., Fei B., Wu Z., Peng L. and Y. Yu (2014). Selected properties of corrugated particleboards made from bamboo waste laminated with medium density fiberboard panels. *BioResources 9(1):1085-1096.*

38. Van Goethem D., Potters G., de Smedt S., Gu L. and R. Samson (2014). Seasonal, diurnal and vertical variation in photosynthetic parameters in *Phyllostachs humils* bamboo plants. *Photosynthesis Research 120:331-346.*

39. Sumardi I., Suzuki S. and N. Rahmawati (2015). Effect of board type on some properties of bamboo strandboard. *Journal of Math Fund. Science 47(1):51-59.*

40. Melo R., Stangerlin D., de Sousa A., de Cademartori P. And E. Schneid (2015). Physical and mechanical properties of wood bamboo particleboard. *Ciencia Rural, Santa Maria 45(1):35-42.*

41. Kord B., Roohani M. and B. Kord (2015). Characterisation and utilisation of reed stem as a lignocellulosic resource for particleboard production. *Maderas Ciencia Technologia 17(3):517-524.*

42. Ghosh R.K., Rahman A., Das A.K., Rama R. and I. Shams (2015). Introducing *Areca catechu* as a raw material of cement bonded board through determining the properties of *Areca catechu* cement bobded board. *Journal of the Indian Academy of Wood Science 1292):99-103.*

43. Sam-Brew S. and G.D. Smith (2015). Flax and hemp fiber reinforced particleboard. *Industrial Crops and Products 77:940-948.*

44. Kusumah S., Unemura K. and K. Kanayama (2016). Utilisation of sweet sorghum bagasse and citric acid for manufacturing of particleboard. *Industrial Crops and Products 84:34-42.*

45. Guler C. (2015). Research on the production of the composite panels from some agricultural residues. *Pro Ligno 11(4):187-191.*

46. Mihajhova J., Iliev B. and V. Popovska (2015). Impact of pressing temperature on physical and mechanical properties of panels made from particles of raspberry stems and grape pruning residues. *Internation Journal- -Wood, Design & Technology 4(1):1-8.*

47. Morais W., Haselein C., Susin M. and J. Morais (2015). Mechanical and physical properties of particleboard with bambusa tuldoides and pinus taeda. *Ciencia Florestal 25(4):1015-1026.*

48. Nurhazwani O., Jawaid M., M. Paridah, Juliana A and S. Hamid (2016). Hybrid particleboard made from bamboo veneer waste and rubber wood. *BioResources 11(1):306-323.*

49. Guler D., Sahin H. and S. Yeniay (2016). The potential for using corn stalks as a raw material for production particleboard with industrial wood chips. *Wood Research 61(2): 299-306.*

50. Yeniocak M., Goktas O., Ozen E. and A. Gecgel (2016). Improving mechanical and physical properties of particleboard made from vine prunnings by addition reinforcement materials. *Wood Research 61(2): 265-273.*

51. Warmbier K and M. Wilezynski (2016). Resin content and board density dependent mexhanical properties of one layer particleboard made from willow. *Drvna Industrija 67(2):127-131.*

52. Chaturvedi R., Pappu A. and R. Mishra (2016). Performance of formaldehyde rsins and cement bonded particleboars and understanding its properties for further advancement. *International Journal of Waste Resources 6(2):1-8.*

53. Kord B., Zare H. and A. Hosseinzadeh (2016). Investigation on the effect of mixed rapeseed stalk residues with wood particles, and mixing of melamine and urea formaldehyde resin on properties of manufactured particleboard. *Iranian Journal of Wood and Paper Industries 7(2):167-178.*

54. Ghalehno M.D., Nazerian M. and A. Bayatkascholi (2013). Experimental particleboard from bagasse and industrial wood particles. *International Journal of Agricultural and Crop Sciences 5(15):1626-1631.*

55. Miranda W.C. (2010). El diseno ambientalmente intergrado y el ecodiseno adhesive fenol formaldehido. *EcoDiser sostenbilidad 2:117-144.*

56. Liou J.Y. (20140. Decomposition of risk house gas by catalyst embedded in cellulose nanofiber film. *M.Sc Thesis*, University of Taiwan.

57. Ghalehno M.D. and M. Nazerian (2012). Feasibility of particleboard production using saltwort stalks. *Journal of Agricultural Science and Technology B2:257-262.*

58. Van Goethem D., Van Elst D. And R. Samson (2015). The effect of light intensity and temperature on the chlorophyll fluorescence of bamboo plants under controlled growth chamber conditions. *Bamboo Science and Culture 28(1):10-22.*

59. Ferreira L.M. (2014). Design de movies e bamboo laminado colado. *Ph.D Thesis*, Universidade de Brasilia.

60. Latif S.S., Nahar S. And M. Hasan (2015). Mechanical and electrical resistivity of bamboo fiber reinforced polypropylene composites. Journal of Polymer Materials 32(1):85-92.

61. Guler C. (2016). Utilisation of some annual fiber as a possible raw material environmental friendly panel production. *International Journal of Biological, Ecologocal and Environmental Sciences 5(1):2277-4394.*

62. Dukarska D., Czarnecki R., Dziurka D. and R. Mirski (2017). Construction particleboards made from rapeseed straw glued with hybrid pMDI/PF resin. *European Journal of Wood and Wood Products 75:175-184.*

63. Astari L., Prasetiyo K. and S. Kusumah (2016). Bulk density, particle distribution and moisture content of particleboard from cotton stalk. *The 6th International Symposium for Sustianable Humanosphare*, Science School, Bogor.

64. Sam-Brew S. and G.D. Smith (2017). Flax shive and hemp hurd residues as alternative raw material for particleboard production. *BioResources 12(3):5715-5735.*

65. Guler C. (2017). Sunflower stalks as an alternative source of raw material in composite panel production. *5th International Conference in Science, Engineering Technology and Natural Resources*, Bangkok, Thailand.

66. Ompusunggu P. 92018). Pengaruh panjang strand bamboo terhadap janung dan bamboo belangke. *M.Sc Thesis*, Universitas Sumatera Utara.

67. Iswanto A. and H. Anjarani (2018). The properties of sandwich particleboard made from bamboo belangke and corn stalk bagasse bonded with isocyanate in various levels. *IOP Conf Series: Earth and Environmental Science 209-012031.*

68. Kusumah S.S. (2017). Development of particleboard made from swet sorghum bagasse and citric acid. *Ph.D Thesis*, Kyoto University, Japan.

69. Iswanto A.H. (2019). Effect of particle immersing in various concentrations of acetic acid to enhance the sandwich particleboard. International conference on Basic Sciences and its Applacations, KnF Engineering, pp:20-29.

70. Gauss C., Aradjo V. and S. Hommer (2019). Bamboo particleboards: recent developments. *Pesq Agropec. Trop. Goranta 49, e55081.*

71. Gauss C. and H. Junior (2019). Bamboo particleboards: recent developments. *Pesq. Agropee Trop. Goiania, 49, e 55081.*

72. Trisatya D. and I.M. Sulastiniigsih (2019). Properties of particleboard made from mixture of jabon wood and Andong bamboo. *Journal Peneliuan Hasal Hutan 37(2):123-135.*

73. Iswanto A. and P. Ompusunggu (2019). Sandwich particleboard: effect of particle length on the quality of bond. *The 8th International Symposium for Sustainable Hurmanosphere* 374, doi:10.1088/1755-1315/374/1/012002.

74. Anyanwu B.U., Adebomi O.A., Fayomi O.S., Kuye S., Igba U.T. and O.o. Oluwole (2019). Effects of kenaf core and bast fibers as dispersing phases on low density fibeboards. *Journal of Physics:Conference Series 1378:022024.*

75. Suryp, S., Islam, M., Mustapha, A. and A. Khalil (2020). Physical, mechanical and morphological properties of laminated bamboo hybrid composite: A potential raw material for furniture manufacturing. *Materials Research Express*

76. Hirizoglou, S. (2020). Adhesive application on particleboard from natural fibers: A review. *Polymer Composites*

77. Mitchuall, S., Mensah, P., Mensah, K. and E. Appiach-Kubi (2020). Characterisation of particleboard produced from residues of Plantain pseudostem, Cacao Pod and stem and ceiba. *Materials Sciences and Applications 11:817-836.*

78. Istek, A., Celik, S. and I. Ozlusoylu (2020). Effect of Chainsaw Chips Use on Some Panel Properties in Particleboard Production. *Journal of Bartin Faculty of Forestry 22 (3): 886-896.*

Για την εργασία μου με τίτλο: Chemical modification employed as a means of probing the cell wall micropore of pine sapwood. Wood Science and Technology 37(6):475-488 36 βιβλιογραφικές αναφορές

1. Rafidah K.S, Hill CAS and G.A. Ormondroyd (2006). Dimensional stabilization of rubber wood (*HEVEA BRASILIENSIS*) with acetic or hexanoic anhydride. *Journal of Tropical Forest Science 18(4): 166-172.*

2. Habu N, Nagasava Y, Samejima M and TM Nakanishi (2006). The effect of substituent distribution on the decay resistance of chemically modified wood. *International Biodeterioration & Biodegradation* 57:57–62.

3. Obataya E. and K. Minato (2007). Effects of previous solvent exchange on acetylation of wood. *Wood Science and Technology 41: 351-360.*

4. Liu CF, Sun RC, Zhang AP, Qin MH, Ren JL and XA Wang (2007). Preparation and characterization of phthalated cellulose derivatives in room-temperature ionic liquid without catalysts. *Journal of Agricultural and Food Chemistry 55 (6):2399-2406.*

5. Liu, CF, Sun RC, Zhang A, Qin MH, Ren JL and XA Wang (2007). Preparation and characterization of phthalated cellulose derivatives in room temperature ionic liquid without catalysts. *Journal of Agricultural and Food Chemistry 55(6):2399-2406.*

6. Peydecastaing J. (2008). Chemical modification of wood by mixed anhydrides. *Ph.D Thesis*. Universite de Toulouse, France.

7. Pignolet M.O. (2008). Optimisation de la durabilite de bois d' oeuvre (classe d' emploi 4) a l ;aide d ; anhydrides alkenyles succiniques d ; origine vegetale. *Ph.D Thesis*. Universite de Toulouse , France.

8. Obataya E. and K. Minato (2009). Potassium acetate-catalysed acetylation of wood at low temperatures I: simplified method using a mixed reagent. *Journal of Wood Science 55:18-22.*

9. Hundhausen U, Stohldreier R, Militz H. and C. Mai (2009). Procedural influence on the properties of particleboards ketene made from AKD modified chips. *European Journal of Wood and Wood Products 67(3):303-311.*

10 Hill CAS., Norton A. and G. Newman (2010). The water vapor sorption behaviour of flax fibres – Analysis using the parallel expodential kinetics and determination of the activation energies of sorption. *Journal of Applied Polymer Science 116(4): 2166-2173.*

11. Xie Y., Hill CAS., Sun D., Jalaludin Z., Wang O. and C. Mai (2011). Effects of dynamic aging (hydrolysis and condensation) behavior of organofunctional silanes in the aqueous solution on their penetrability into the cell walls of wood. *BioResources 6(3): 2323-2339.*

12 Li Y., Dong X., Liu Y., Li J. and F. Wang (2011). Improvement of decay resistance of wood via compination treatment on wood cell wall: Swell-bonding with maleic anhydride and graft polymerization with glycidyl

methacrylate and methyl methacrylate. *International Biodegradation and Biodeterioration 65:1087-1094.*

13. Li Y., Liu Z., Dong X., Fu Y., Liu Y (2013). Comparison of decay resistance of wood and wood polymer composite prepared by in siyu polymerization of monomers. *International Biodegradation and Biodeterioration 84:401-406.*

14. Kluppel A. and C. Mai (2013). The influence of curing conditions on the chemical distribution in wood modified with thermosetting resins. *Wood Science and Technology 47:643-658.*

15. Ringman R., Pilgard A. and K. Richter (2014). Effect of wood modification on gene expression during incipient *Postia placenta* decay. *International Biodeterioration & Biodegradation 86:86-91.*

16. Popescu C.M, Hill C.A.S., Curling S., Ormondroyd G. and Y. Xie (2013). The water vapour sorption of acetylated birch wood: how acetylation affects the sorption isotherm and accessible hydroxyl contents. *Journal of Materials Science 49(5):2362-2371.*

17. Ringman R., Pilgard A., Brishke C. and K. Richter (2014). Mode of action of brown rot decay resistance in modified wood: *A review. Holzforschung 68(2):239-246.*

18. Ringman R., Pilgard A., Alfredsen G., Goodbell B. and K. Richter (2014). Possible targets of wood modification in brown rot degradation. *The International Research Group on Wood Protection. 45th IRG annual meeting, St George Utah, USA.*

19. Fan Y., ang Y., Yu N., Deng L. and Z. Chen (2016). Study on the relations and distributions of the copper based preservative in standing tree. *Advances in Material Science and Engineering, Article ID 6163179.*

20. Yang H., Duncan S., Hafez I., Schilling J. and W. Tze. (2016). Hydroxy availability in aspen wood after dilute acid pretreatment and enzymatic saccharafication. *BioResources 11(3):7490-7499.*

21. Yelle D. (2017). Solution state NMR analysis of hydroxymethylated resorcinol cured in the presence of crude milled wood lignin from Acer saccarum. *Journal of Applied Polymer Science DOI 10 1002/APP 45398.*

22. Ringman R., Pilgard A., Brischke C. and K. Richter (2017). Incipient rot decay in modified wood: patterns of mass loss, structural integrity, moisture and acetyl content in high resolution. *International Wood Products Journal 8:172-182.*

23. Fodor F. and R. Nemeth (2017). Testing the photostability of acetylated and boiled linseed oil-coated common hornbeam wood. *Acta Silvatica et Lignoria Hungarica. Acta Silv. Lign. Hung., 13: 81–94.*

24. Dorvel B. and S. King (2017). Probing the effect of polymer molecular weight on penetration into the wood cell wall using polyethylemine as a model compound. *Microscopy* 270(2):121-128.

25. Wang Y., Deng L., Chen S., Chen Z. and Y. Fan (2017). Study on modification of fast-growing Chinese fir stumpage. *IOP Conf. Series: Earth and Environmental Science 108(042084).*

26. Segmehl J., Lauria A., Keplinger T. and I. Burgert (2018). Trackinh of short distance transport pathways in biological tissues by ultra-small nanoparticles. *Frontiers in Chemistry, volume 6, article 28, pp 1-9.*

27. Popescu C.M., and D. Jones (2018). Infrared spectroscopy and chemometric methods for the evaluation of the thermal/chemical treatment effectiveness of hardwoods. *9th European Conference on Wood Modification, Arnhem, Netherlands.*

28. Ermeydan M. (2019). A natural flavonoid, chrysin, improving wood properties via impregnation. *BioResources 14(1):2133-2143.*

29. Ghasen M., Behbudi G. and K. Shayestech (2019). Optimisation of yields of modified lignin sulfonate production by response surface method. *4th International Conference on Conservation of Natural Resources and Environment.*

30. Popescu C.M., Jones D., Krzisnik D. and M. Humar (2020). Determination of the effectiveness of a combined thermal-chemical modification by the use of FTIR spectroscopy and chemometric methods. *Journal of molecular Structure 1200: 127133.*

31. Kaldum C., Softje M., Namyslo J. and D. Kaufmann. Chemical improvement of surfaces. Part 5: surfactants as structural lead for wood hydrophobisation-covalent modification with p-alkylated benzoates. *Holzforschung.*

32. Jones D., Popescu C. and M. Popescu (2019). The use of bicine and tricine as possible Mailard reagents in a combined thermal/chemical modification of beech. *Proceedings of IRG Annual Meeting, The International Research Group on Wood Protection*. IRG/WP 19-40852.

33. Croitoru, C. and I.C. Roata (2020). Ionic liquids as antifungal agents for wood preservation. *Molecules 25:4289.*

34. Liu, Z., Wen, L., Wang, X. and Y. Zhang (2020). Leachability of ACQ-D after three different preservative treatments. *Wood Research 65(4):591-604.*

35. Ghavidel, A., Vasilache, V. and I. Sandu (2020). Decay resistance of beech wood against white rot fungus. *Acta Chemical Iasi 28(2):175-182.*

36. Ghavidel, A., Sandub, I., Vasilacheb, V. (2020). Decay resistance of beech wood against white rot fungus. *Acta Chemica Iasi,* 28(2):2:175-182.

<u>Για την εργασία μου με τίτλο: Analysis of the swelling behaviour of chemically modified softwood: A novel approach. Holz als Roh- und Werkstoff 62(2):107-112 9 βιβλιογραφικές αναφορές</u>

1. Obataya E (2005). Reversible volumetric changes of acetylated wood with after-treatments. *Wood Science and Technology 39: 472–483.*

2. Kwon J.H, Hill C.A.S., Ormondroyd G.A. and S. Karim (2007). Changes in the cell wall volume of a number of wood. *Holzforschung 61 (2): 133-142.*

3. Loskutov S.R. and A.A. Amiskina (2008). Swelling of larch wood in organic liquids. *Holzforschung 62 (2): 357-361.*

4. Noel M, Fredon E, Mougel E, Masson D and L. Delmotte (2009). Lactic acid/wood based composite material. Part 1: Synthesis and characterisation. *Bioresource Technology 100: 4711-4716.*

5. Dieste A. (2009). Wood-water relationships in wood modified with 1,3 dimethylol-4,5-dihydroxyl ethylene urea (DMDHEU). *Ph.D Thesis,* Georg-August Universitat, Gottingen, Germany.

6. Thybring E.E. (2013). The decay resistance of modified wood influenced by moisture exclusion and swelling reduction. *International Biodeterioration & Biodegradation 82:87-95.*

7. Noel M., Grisby W.,Vitkeviciute I. and T. Volkmer (2014). Modifying wood with bio-polyesters: analysis and performance. *International Wood and Wood Products Journal6(1):14-20.*

8. Pecenko R., Svensoon S. and T. Hozjan (2016). Model evaluation of heat and mass transfer in wood exposed to fire. *Wood Science and Technology 50:727-737.*

9. Thybring E., Piqueras S., Tarmian a. and I. Burgert (2020). Water accessibility to hydroxyls confined in solid wood cell walls. *Cellulose*

<u>Για την εργασία μου με τίτλο: Mechanical and physical properties of cement-bonded OSB. Holz als Roh-und Werkstoff 64(6):517-518. 32 βιβλιογραφικές αναφορές</u>

1. Del Menezzi CHS, VG de Castro, MR de Souza (2007). Production and properties of a medium density wood-cement boards produced with oriented strands and silica fume. *Maderas Ciencia y tecnología 9(2):105-115.*

2. Frybort S. Mauritz R., Teischinger A and U. Muller (2008). Cement bonded composites – a mechanical review. *BioResources 3(2): 602-626.*

3. Erakhrumen A.A, Areghan S.E., Ogunleye M.B., Larinde S.L. and O.O. Odeyale (2008). Selected physico-mechanical properties of cement-bonded particleboard made from pine sawdust-coir mixture. *Scientific Research and Essay 3(5): 197-203.*

4. Kruger E.L., Adriazola M., Matoski A. and S. Iwakiri (2009). Thermal analysis of wood–cement panels: Heat flux and indoor temperature measurements in test cells. *Construction and Building Materials 23:2299-2305.*

5. Guntekin E and H.T. Sahin (2009). Accelerated weathering performance of cement bonded fiberboard. *Scientific Research and Essay 4(5): 484-492.*

6. Liu, Y.X., Han, J.C., Zhang, X.Q. and H.P. Yu (2009). Preparation process of cement-bonded wheat straw. *Journal of Building Materials 12(3):369-374.*

7. Guntekin, E (2009). Some physical and mechanical properties of cement bonded fiberboard exposed to accelerated aging. *Faculty of Forest Journal, A(1):92-103.*

8. Ahmad Z., Wee, L.S. and M.A. Fauzi (2011). Mechanical properties of wood-wool cement composite board manufactured using selected Malaysian fast grown timber species. *ASM Science Journal 5(1):27-35.*

9. Araujo P., Arruda L.M., Del Menezzi C.H.S., Teixeira D.E. and M.R. de Souza (2011). Lignocellulosic composites from Brazilian giant bamboo (*Gradua magna*). Part 2: Properties of cement and gypsum bonded particleboards. *Maderas Ciencia y tecnologia* 13(3):297-306.

10. Teixeira D.E. (2012). Recycled Old corrugated container fibers for wood-fiber cement sheets. *International Scholary Research Network, Article ID 923413.*

11. Sottande O.A., Oluwadare A.O. Ogedoh O. and P.F. Adeogun (2013). Evaluatiuon of cement-bonded particleboard produced from *Afzelia Africana* wood residues. *Journal of Engineering Science and Technology 7(6):732-743.*

12. Wang C., Zhang S. and H. Wu (2013). Performance of cement bonded particleboards made from grapevine. *Advanced Materials Research 631-632:765-770.*

13. Rasit E. and Y. Fatih (2013). The effects of press time and press pressure on the screw strength properties of OSB manufactured from poplar.

24th International Scientific Conference 'Wood is good-user oriented material, technology and design' Zagreb, Croatia, pp:15-18.

14. Amiandamhen S.O. and D.N. Izekor 92013). Effect of wood particle geometry and pre-treatments on the strength and sorption properties of cement bonded particleboards. *Journal of Applied and Natural Science 5(2):318-322*

15. Sadiku N.A. and A. Sanusi (2014). Wood pretreatment influence on the hydration of Portland cement in combination with some tropical wood species. *Pro Ligno 10(2):3-10.*

16. Ahmad Z., Arshad M. and A. Azrae (2015). Partial replacement of glass fiber with kenaf waste in cement board production. *Proceedings of the International Civil and Infrastructure Engineering Conference, InCIEF, pp:741-755.*

17. Engone J.G. N. (2015). Developpement de materiaux cimentaires a base de sous produits bois. *Ph.D Thesis,* Universite D' Artois, France.

18. Morsy M.I.N. (2011). Properties of rice straw cementitious composite. *PhD. Thesis, Technische Universitat Darmstadt, Egypt.*

19. Sanaev V., Zaprudnov V., Gorbacheva G. and A. Oblivin (2016). Factors affecting the quality of wood cement composites. *Bulletin of the Transilvania University of Brasov 9(58)No 2.*

20. da Rosa T.S., Schweitzer V., Trianoski R. and S. Iwakiri (2017). Physical and mechanical properties of oriented wood cement boards produced with five eucalyptus species. *Floresta, Curitiba PR 47(3):317-322.*

21. Li M., Khelifa M. and M. Ganauoi (2017). Mechanical characterization of concrete containing wood shavings as aggregates. *International Journal of Sustainable Built Environment 6:587-596.*

22. da Rosa T. and S. Iwakiri (2017). Physical ans mechanical properties of OSB produced with five eucalyptus species. *Floresta 47(3):317-322.*

23. Yel H., Kalaycioglou H. and U. Aras (2017). Utilisation of silica fume in manufacturing of cement bonded particleboards. *Pro Ligno 13(4):257-263.*

24. Castro V., Parchen C. and S. Iwakiri (2018). Particle sizes and wood cement ratio effect on the production of vibro compacted composites. *Floresta e Ambiente 25(4):e20150213.*

25. Elsahli E. and A. Shebami (2016). The use of olive stone waste for production of particleboard using commercial polyester sealer as a binding agent. ICCPGE, Al-Mergib University, alkhoms, Libya.

26. Li M, Khelifa M, Khennane A and M Ganaoui (2019). Structural response of cement-bonded composite panels as permanent framework. *Composites Structures 209:13-22*

27. Omoniyi T.E. (20190. Potential oil palm empty fruit bunch fibers cement composites for building application. *AgriEngineering 2:153-163.*

28. Zaprudnov V., Sanaev V., Karpachev S. and G. Gorbacheva (2019). The influence of chemical additives on strength of wood cement composites. *Materials Science Forum* 972:69-76

29. Farag E., Alsebani M., Elhari W., Klash A. and A. Shebani (2020). Production of particleboard using olive stone waste for interior design. *Journal of Buliding engineering 29:10119.*

30. Dadile, A. Sotannde, O. and J. Alao (2019). Physicomechanical properties of cement bonded particleboards made from date palm fibers and obeche sawdust. *Journal of Materials Science Research and Reviews 4(4):1-5.*

31. Ogunjobi K. and O. Thompson (2019). Effects of board density and mixing ration on the physicomechanical properties of cement bonded particleboard produced from sawdust. *Agriculture and Forestry Journal 3(2):58-63.*

32. Rana M., Islam N., Nath A. and M. Shams (2020). Influence of chemical additive on the physical and mechanical properties of cement-bonded composite panels made from jute stick. *Journal of Building Engineering*

Για την εργασία μου με τίτλο: An investigation of the suitability of some Greek wood species in wood-cement composites manufacture. Holz als Roh-und Werkstoff 65(3):245-246. 18 βιβλιογραφικές αναφορές

1. Frybort S. Mauritz R., Teischinger A and U. Muller (2008). Cement bonded composites – a mechanical review. *BioResources 3(2): 602-626.*

2. Guntekin E and H.T. Sahin (2009). Accelerated weathering performance of cement bonded fiberboard. *Scientific Research and Essay 4(5): 484-492.*

3. Liu, Y.X., Han, J.C., Zhang, X.Q. and H.P. Yu (2009). Preparation process of cement-bonded wheat straw. *Journal of Building Materials 12(3):369-374.*

4 Guntekin, E (2009). Some physical and mechanical properties of cement bonded fiberboard exposed to accelerated aging. *Faculty of Forest Journal, A(1):92-103.*

5. Liu YX, Han JQ, Zhang XQ and HP Yu (2009). Preparation process of cement-bonded wheat straw composites. *Journal of Building Materials 12(3):369-374.*

6. Hermawan A., Ohuchi T. and N. Fujimoto (2011). Manufacture of three-layer wood-porcelain stone composite board reinforced with bamboo filler. *Materials and Design 32:2485-2489.*

7. Yel H., Donmez A. and H. Kalaycioglu (2011). Mechanical and physical properties of cement bonded particleboard made from tea residues and hardboards. Key Engineering Materials 471-472: 572-577.

8. Ashori A., Tabarsa T. and I. Valizadeh (2011). Fiber reinforced cement boards from recycled newsprint paper. Materials Science and Engineering A528:7081-7804.

9 Ashori A., Tabarsa T. and S. Sepahvand (2011). Cement-bonded composite boards made from poplar strands. *Construction and Building Materials 26:131-134.*

10 Ashori A., Tabarsa T. and F. Amosi (2011). Evaluation of using waste timber railway sleepers in wood-cement composite materials. *Construction and Building Materials 27:126-129.*

11. Araujo P., Arruda L.M., Del Menezzi C.H.S., Teixeira D.E. and M.R. de Souza (2011). Lignocellulosic composites from Brazilian giant bamboo (*Gradua magna*). Part 2: Properties of cement and gypsum bonded particleboards. *Maderas Ciencia y tecnologia* 13(3):297-306.

12. Moreira A.B.S., Macedo A.N. and P.S.L. Souza (2012). Masony concrete block strength compound with sawdust according to residue treatment. Acta Scientiarum Technology 34(3):269-276.

13. Omoniyi T.E. and B.A. Akinyemi (2013). Hydration characteristics of bagasse in cement-bonded composites. *International Journal of Composite Materials 3(1):1-6.*

14. Dommez I.E. and S. Dommex (2013). Structure of tree bark and possibility of utilization. *SDU Faculty of Forestry Journal 14:156-162.*

15. Engone J.G. N. (2015). Developpement de materiaux cimentaires a base de sous produits bois. *Ph.D Thesis,* Universite D' Artois, France.

16. Shi J. and S. Avramidis (2017). Water sorption hysteresis in wood I: review and experimental patterns-geometric characteristics of scanning curves. *Holzforschung 71(4):307-316.*

17. Shi J. and S. Avramidis (2018). Dried cell wall nanopore configuration of Douglas fir, western red cedar and aspen heartwoods. *Wood Science and Technology 52:1025–1037.*

18. Amel B., Paridah M., Rahim S and A. Hussein (2020). Effects of kenaf bast fiber and silica fume content on bending strength and dimensional stability of cement bonded kenaf composite boards. *Journal of Engineering Science and Technology 15(2): 1124-1138.*

Για την εργασία μου με τίτλο: The sorption of water vapour by chemically modified softwood: Analysis using various sorption models. Wood Science and Technology 39(2): 99-112. 16 βιβλιογραφικές αναφορές

1. Pfriem A. (2007). Untersuchungen zum materialverhalten thermish modifizierter holzer fur deren verwendung im musikinstrumentenbau. *Ph. D*

Thesis, Universitat TU Dresden, Institut fur Holz und Papiertechnik, Germany.

2. Hill, CAS (2008). The reduction in the fibre saturation point of wood due to chemical modification using anhydrides reagents: a reappraisal. *Holzforschung 62: 423-428.*

3. Dieste, A., Krause, A. and H. Militz, H. (2008). Modification of Fagus sylvatica (L.) with 1,3-dimethylol-4,5- dihydroxyethylene urea (DMDHEU): Part 1. Estimation of heat adsorption by the isosteric method (Hailwood-Horrobin model) and by solution calorimetry**.** *Holzforschung* 62 (5):577-583.

4. Furmaniak S., Terzyk A.P. and P.A. Gauden (2008). Interrelation between steam sorption by wood and temperature. *Drewno-Wood 51(180):15-29.*

5. Hill CAS., Norton A. and G. Newman (2009). The water vapor sorption behavior of natural fibers. *Journal of Applied Polymer Science 112: 1524-1537.*

6. Ramirez R.J., S.S. Torres, L.M. Lagunas and A.C. Parra (2011). Experimental determination and modeling of equilibrium moisture content from the sapwood of Mexican pine (*Pinus pseudostrobus*). *Forestry Studies in China 13(4):285-589.*

7. Krisdianto O. (2012). Effect of acetylation on water adsorption of two tropical wood species. *Jurnal Penelitian Hasil Hutan 30(2):94-99.*

8. Oliveira R.A., Elustondo D.A., Mujundar A.B. and R.C. Ananias (2013). Canadian developments in kiln drying. Drying Technology 30(15):1792-1799.

9. Quertani S., Azzouz S., Hassini L., Koubaa A. and A. Belghith (2014). Moisture sorption isotherms and thermodynamic properties of jack pine and palm wood: Comparative study. *Industrial Crops and Products 56:200-210.*

10. Pecenko R., Svensoon S. and T. Hozjan (2016). Model evaluation of heat and mass transfer in wood exposed to fire. *Wood science and Technology* 50:727-737.

11. Santos J.A.M (2015). Cinetica de sorcion de humedad en productos de molineria. *Obtencion acelerada de datos y caracterizacion matematica. Doctoral Tesis, Universidad D. Cordoba, Spain.*

12. Mamloumi R., Nana G.L., Hassini L., Elcafsi M. and D. Smith (2015). Effect of natural cellulosic fibers on the thermodynamic properties of a clay mixture product. *International Journal of Engineering Science and Innovative Technology 4(2):371-387.*

13. Passarini L., Zelinka L.S., Glass S.V. and C.G. Hunt (2018). Effect of weight percent gain and experimental method on fiber saturation point of acetylated wood determined by differential scanning calorimetry. *Wood Science and Technology 51(6): 1291-1305.*

14. Willems W. (2018). Hygroscopic wood moisture: single and dimerized water molecules at hydroxyl pair sites? *Wood Science and Technology 52:777-791.*

15. Zelinka S.L., Glass S. and E.E. Thybring (2018). Myth versus reality: Do parabolic sorption isotherm models reflect actual wood-water thermodynamics? *Wood Science and Technology 52(6): 1701-1706.*

16. Chen Q., Wang G. and B. Fei (2020). The effect of graded fibrous structure of bamboo on its water vapor sorption isotherms. Industrial Crops and Products 151: 112467.

<u>Για την εργασία μου με τίτλο: Moisture adsorption isotherms of two esterified Greek hardwoods. Holz als Roh-und Werkstoff 63(2):123-128. 17 βιβλιογραφικές αναφορές</u>

1. Dieste, A., Krause, A. and H. Militz, H. (2008). Modification of Fagus sylvatica (L.) with 1,3-dimethylol-4,5- dihydroxyethylene urea (DMDHEU): Part 1. Estimation of heat adsorption by the isosteric method (Hailwood-Horrobin model) and by solution calorimetry. *Holzforschung 62 (5):577-583.*

2. Furmaniak S., Terzyk A.P. and P.A. Gauden (2008). Interrelation between steam sorption by wood and temperature. *Drewno-Wood 51(180):15-29.*

3. Eleoterio J.R. 92009). Modelagem e simulacao do processo de secagem de madeiras serradas de especies tropicals brasileiras. *Ph.D. Thesis.* Universidade Federal de Santa Catarina, Brasil.

4. Popper R., Gerhild E. and P. Niemz (2010). Kinetic of free intergal swelling on chemically modified wood along the water vapour sorption isotherm under air-free conditiuons. *Bauphysik 32(1):7-16.*

5. Xie Y., Hill CAS., Xiao Z., Mai C. and H. Militz (2011). Dynamic water vapour sorption properties of wood treated with glutaraldehyde. *Wood Science and Technology 45:49-61.*

6. Thybring E.E. (2013). The decay resistance of modified wood influenced by moisture exclusion and swelling reduction. *International Biodeterioration & Biodegradation 82:87-95.*

7. Szymona K., Borysiuk P., Hng P.S., Chin K.L. and M. Mamiski (2014). Valorization of waste oil palm (Elaeis guineensis) biomass through furfuylation. *Materials and Design 53:425-429*

8. Hisham H.N., Hale M. and A.L. Norasikin (2013). Equilibrium moisture content and moisture exclusion efficiency of acetylated rattan. *Journal of Tropical Science 26(1):32-40.*

9. Mattos B., Tainise V., Lourencon L., Labidi J. and D. Gatto (2014). Chemical modification of fast growing eucalyptus wood. *Wood Science and Technology 49(2):273-288.*

10. Tomak E.D. and A. Temiz (2015). Effect of chemical modification on water absorption, dimensional stability and biological durability of wood. *Journal of Faculty of Engineering and Architecture of Gazi University, 29(4):769-776.*

11. Maminski M., Chin K. and R. Maminska (2016). Enhancement of technical value of oil palm waste trunk through chemical modification with DMDHEU. *European Journal of Wood and Wood Products 74:837-844.*

12. Shahmirzadi A.N., Ghorbani M. and S.M. Aminisaab (2016). Determination the optical conditions of poplar wood treatment with maleic anhydride and physical characteristics of the product. *Journal of Wood and Forest Science Technology 23(3):175-186.*

13. Garcia C.S. (2015). Determinatiom de la higroscopidad y comportamiento thermodinamico de la Madera juvenile y madura a traves de sus isothermas de sorcion. *Thesis Doctoral, Universidad Politecnika de Madrid, Spain.*

14. Chau T., Ma M.D. and T. Yang (2017). Moisture sorption and hygroexpansion of paraffin wax emulsion treated southern pine under dynamic conditions. *Forest Products Journal 67:463-470.*

15. Zelinka S.L., Glass S. and E.E. Thybring (2018). Myth versus reality: Do parabolic sorption isotherm models reflect actual wood-water thermodynamics? *Wood Science and Technology* 52(6): 1701-1706.

16. Chau T, Ma E and J. Cao (2017). Moisture sorption and hygroexpansion of paraffin wax emulsion treated southern pine under dynamic conditions. *Forest Products Journal 67(7-8):463-470.*

17. Chen Q., Wang G. and B. Fei (2020). The effect of graded fibrous structure of bamboo on its water vapor sorption isotherms. Industrial Crops and Products 151: 112467.

Για την εργασία μου με τίτλο: An investigation of the cell wall ultrastructure of the sapwood of the ten Greek wood species by means of chemical modification. Holz als Roh-und Werkstoff 63(6):437-441. 7 βιβλιογραφικές αναφορές

1. Dieste, A., Krause, A. and H. Militz, H. (2008). Modification of Fagus sylvatica (L.) with 1,3-dimethylol-4,5- dihydroxyethylene urea (DMDHEU): Part 1. Estimation of heat adsorption by the isosteric method (Hailwood-Horrobin model) and by solution calorimetry. *Holzforschung 62 (5):577-583.*

2. Dieste A., Krause A., Mai C., Sebe G., Grelier S. and H. Militz (2009). Modification of *Fagus sylvatica* L. with 1,3-dimethylol-4,5- dihydroxy ethylene urea (DMDHEU). Part 2: Pore size distribution determined by differential scanning calorimetry. *Holzforschung 63(1): 89-93.*

3. Shi L. (2017). Water sorption hysteresis and wood cell wall nanopore structure. *Ph.D Thesis*, The University of British Columbia.

4. Shi J. and S. Avramidis (2017). Water sorption jysterisis in wood: III physical modeling by molecular simulation. *Holzforschung 71(9):733-741.*

5. Shi J. and S. Avramidis (2017). Water sorption jysterisis in wood: I review and experimental patterns – geometric characteristics of scanning curves. *Holzforschung 71(4):307-316.*

6. Yasar M., Yasar S., Fidan M., Uysal E and M. Altinok (2017). The analysis of the effects of open door conditions on the physical and mechanical characteristics of sessile oakwood impregnated with natural and artificial substances. *E.J. Engineering Sciences and Technology 1:76-73.*

7. Shi J. and S. Avramidis (2019). Evolution of wood cell wall nanopore size distribution in the hyfroscopic range. *Holzforschung 73:899-910.*

Για την εργασία μου με τίτλο: Decay resistance of acetylated OSB in ground stake test. Holz als Roh-und Werkstoff 64(3): 245-246. 8 βιβλιογραφικές αναφορές

1. Del Menezzi, CHS, de Souza RQ, Thompon RM, Teixeira DE, Okino EYA and da Costa AF (2008). Properties after weathering and decay resistance of a thermally modified wood structural board. *International Biodeterioration & Biodegradation 62:448-454.*

2. Jorge, F.C. (2008). Recent advances on lignocellulosic based composites for performance and environmentally compatibility improvement. *Molecular Crystals and Liquid Crystals 484, pp 51/[417]-70/[436].*

3. Hung K.E. (2009). Effects of acetylated bamboo particle on mechanical and weathering properties of bamboo plastic composites. *Ph.D Thesis*, National Chung Hsing University, Taiwan.

4. Hosseinaei O., Wang S., Rials T.G., Xing C., Taylor A.M. and S.S. Kelley (2011). Effect of hemicelluloses extraction on physical and mechanical properties and mold susceptibility of flakeboard. *Forest Products Journal 61(1):31-37.*

5. Hung K.C., Chen Y.L. and W. Jyh-Horng (2012). Natural weatrhering propertiew of acetylated bamboo plastic composites. *Polymer Degradation and Stability 97:1680-1685.*

6. Alfredsen G., Flaete P. and H. Militz (2013). Decay resistance of acetic anhydride modified wood: A review. *International Wood Products Journal 4(3): 137-143.*

7. Lee W., Hong S. and h. Kang (2015). Investigation on the physical properties of acetylated domestic softwoods. *J. Korean Wood Science and Technology 43(4):429-437.*

8. Thybring E. and L. Rauktari (2018). Moisture in modified wood and its relevance for fungal decay. *i Forest 11:418-422.*

Για την εργασία μου με τίτλο: Dimensional stabilization and strength of particleboard by chemical modification with propionic anhydride. Holz als Roh-und Werkstoff 61: 142-144. 22 βιβλιογραφικές αναφορές

1. Yilidz UC, Dizman E, Kalaycioglou H, Yilidz S, Temiz A and ED Gezer (2005). The effects of chemical modification on the physical and mechanical properties of particleboards produced from Alder and Spruce chips. *Proceedings of the 2nd European Conference on Wood modification.* Gottingen, Germany. Pp:116-124.

2. Jorge, F.C. (2008). Recent advances on lignocellulosic based composites for performance and environmentally compatibility improvement. *Molecular Crystals and Liquid Crystals 484, pp 51/[417]-70/[436].*

3. Hundhausen U and H. Militz (2009). Use of alkyl ketene dimer (AKD) for surface modification of particleboard chips. *European Journal of Wood and Wood Products 67(1):37-45.*

4. Hundhausen U, Stohldreier R, Militz H. and C. Mai (2009). Procedural influence on the properties of particleboards ketene made from AKD modified chips. *European Journal of Wood and Wood Products 67(3):303-311.*

5. Hung K.E. (2009). Effects of acetylated bamboo particle on mechanical and weathering properties of bamboo plastic composites. *Ph.D Thesis*, National Chung Hsing University, Taiwan.

6. Nenonene A.Y. (2010). Elaboration et caractesisation mecanique de panneaux de particules de tige de kenaf et de bioadhesifs a base de colle d'os, de tannin ou de mucilage. *Doctorat* de L' Universite de Toulouse, France.

7 Tomak E.D. and U.C. Yilitz (2010). Chemical modification of wood. *Ulusal Karadeniz Ormanclik Kongresi, Sayfa.* Pp: 1681-1690.

8. Ulusoy H., Baharoglou M., Tan H. and H. Peker (2103). Technques applied in wood based composite panel manufacturing. *Journal of South-West Anatoliua, Forest Research Institute 15(1):57-77.*

9. Doczekalska B., Bartkowiak M. and R. Zakrzewski (2014). Esterification of willow wood with cyclic acid anhydrides. *Wood Research 59(1):85-96.*

10. Cavdar A., Mengeloglu F., Karakus K. and E. Tomak (2014). Effect of chemical mofification with maleic, propionic and succinic anhydride on some

properties of wood flour filled HDPE composites. *BioResources 9(4):6490-6503.*

11. Tomak E.D. and A. Temiz (2015). Effect of chemical modification on water absorption, dimensional stability and biological durability of wood. *Journal of Faculty of Engineering and Architecture of Gazi University, 29(4):769-776.*

12. Bavenegji F. and M. Ghorbani (2015). Mechanical behavior and springback of acetylated particleboard made in different press times. *Wood Materials Science and Engineering 11(1):57-61.*

13. Hundhausen U., Kloeser L. and C. Mai (2015). Usability of maleic anhydride as wood modification agent for the production of MDF. *European Journal of Wood and Wood Products 73(3):283-288.*

14. Bavaneghi F. and M. Ghorbani (2016). Mechanical behavior and springback of acetylated particleboard made in different press times. *Wood Material Science and Engineering 11(1):57-61.*

15. Singh M., Kaushik A. and D. Ahuja (2016). Surface functionalisation of nanofibrillated cellulose extracted from wheat straw: effect of process parameters. *Carbohydrate Polymers 150:48-56.*

16. Agyen K. (2013). The use of bonded sawdust as a substitute material for carving. *M.Sc Thesis*, University of Kumasi.

17. Mai C., Direske M., Varel D. and A. Weber (2017). Light medium density fiberboards: does acetylation improve the physic-mechanical properties? *European Journal of Wood and Wood Products 77(5): 761–769.*

18. Ozdol G. (2010). Masif ahsap parkelerin boyutsal kararliliginin arastirilmasi. *Ph.D Thesis, Istanbul Teknik Universitesi, Turkey.*

19. Demirel G., Gudul H., Temiz A., Kustas S. and I. Aydin (2018). Effect of alkyl ketene dimer on the physical, mechanical and biological durability of plywood. *BioResources 13(1):147-156.*

20. Ozlusoylu S. (2018). Lif levha uretiminde silan ve paraffin kullamininin ozellikler uzerine etkileri. Ph.D Thesis, Bartin University

21. Ahmed, S., Adamopoulos, S., Li, J. and J. Kocacikova (2020). Prediction of mechanical performance of acetylated MDF at differenet humid conditions. *Applied Sciences 10, 8712.*

22. Ahmed, A., Adamopoulos, S., Li, J. and J. Kovacikova (2020). Prediction of mechanical performance of acetylated MDF at different humid conditions. *Applied Sciences, 10, 8712.*

Για την εργασία μου με τίτλο: Natural durability in ground stake test of propionylated particleboards. Holz als Roh-und Werkstoff 65(2):171-172. 1 βιβλιογραφική αναφορά

1 Tomak E.D. and U.C. Yilitz (2010). Chemical modification of wood. *Ulusal Karadeniz Ormanclik Kongresi, Sayfa.* Pp: 1681-1690.

Για την εργασία μου με τίτλο: Sorption of acetylated pine wood decayed by brown rot, white rot and soft rot: different fungi-different behaviours. Wood Science and Technology 46:919-926 20 βιβλιογραφικές αναφορές

1. Segerholm B.K., Ibach R.E. and M.E.P. Walinder (2012). Moisture sorption in artificially aged wood-plastic composites. *BioResources 7(1):1283-1293.*

2. Taghiyari H.R., Mobini K., Samadi Y.S., Doosti Z., Karimi F., Asghari M., Jahangiri A. and P.Nouri (2013). Effects of nano-wollastonite on thermal conductivity coefficient of medium density fiberboard. *Journal of Nanomaterials and Molecular Nanotechnology 2:1*

3. Michel F., Kranitz K. and P. Niemz (2013). Untersuchungen zum einfluss der verklebung auf den diffusionswiderstand bei einsatz von glutinbasierten klebstoffen. *Bauphysik 35:119-124.*

4. Taghiyari H.R. (2013). Nano-zycosil in MDF: gas and liquid permeability. *European Journal of Wood and Wood Products 71:353-360.*

5. Zhao Y, Tam X., Wan X., Yuoon Y., Yu Z. and J. Tang (2014). Dyeing of acetylated wood with disperse dyes. *Wood and Fiber Science 16(3):1-11.*

6. Tagjiyari H., Karimi A., Tahir P., Schimdt O., Bari E., Nouri P. and A. Jahangiri (2014). Nano-zycosil in MDF. Part 1: Gas and liquid permeability. *The International Research Group on Wood Protection. 45th IRG annual meeting, St George Utah, USA.*

7. Khonsari A., Tagjiyari H, Karimi A and M. Tajvidi (2015). Study on the effects of wood flour geometry on physical and mechanical properties of wood plastic composites. *Maderas Ciencia y Technologia 17(3):545-558.*

8. Kapidani A. (2015). The effect of sodium chloride treatment on compression strength of silver fir wood. *International Journal of Engineering and Applied Sciences 2(10):2394-3661.*

9. Yekken M., Ajala O., Adegbite R. and A. Alarape (2014). Physico-chemical properties and *in vitro* antifungal activities of *Ricinus communis* seed oil against *Lentigus sajor-caju. Scholars Research Library 6(5):1-6.*

10. Reina R., Ullrich R., Garcia-romera I., liers C. and E. aranda (2016). Intergrated by biovalorization of wine and olive mill by products to produce enzymes of industrial interest and soil amendments. *Spanish Journal of Agricultural Research 14(3):12 pages.*

11. Rangavar H., Taghiyari H. and A. Abdollahi (2012). Effects of nanosiver in improving fire-retarding properties of borax in solid woods. *International Journal of Bio-Inorganic Hybrid Nanomaterials. 1(3):159-167.*

12. Prego R.R. (2016). Effects of agroindustrial by products on wood dwelling agaricomycetes: lignocellulotic enzyme enhancement and residue transformation. *Ph.D Thesis, Universidad de Granada, Spain.*

13. Thybring E.E. (2017). Water relationsin untreated and modified wood under brown rot and white rot decay. *International Biodeterioration & Biodegradation 118:134-142.*

14. Beck G. (2017). Moisture development in unmodified and acetylated radiate pine during brown rot decay as studied by low field NMR relaxometry. *Proceedings of the 13th annual meeting of the Northern European Network for wood science and engineering (WSE 2017). Copenhagen, Denmark, pp:111-116.*

15. Esmailpour A. and H. Siahposht (2018). Effects of nanosilver impregnation on impact bending strenghth of ice-blasted beech and poplar woods. *Walailak Journal of science and Technology* 75:481-489.

16. Zelinka S.L., Glass S. and E.E. Thybring (2018). Myth versus reality: Do parabolic sorption isotherm models reflect actual wood-water thermodynamics? *Wood Science and Technology 52:1701-1706.*

17. Tagliyari H.R. and S. Avramidis (2019). Specific gas permeability of normal and nanosilver impregnated solid wood species as influenced by heat treatment. *Maderas: Ciencia y technologia 21(1):*

18. Brishke C., Stricker S., Veltrup L. and L. Emmerich (2019). Changes in sorption and electrical properties of wood caused by gungal decay. *Holzforschung 73(5):445-455.*

20. Alfieri P., Traversa L., Ganosa G. and C. Giudice (2017). Softwood treated with water repellents organ-silics impregnants. *Ciencia y technologia de los materials* 7:61-71.

Για την εργασία μου με τίτλο: Bonding behaviour of chemically modified wood particles for board production. Holz als Roh-und Werkstoff 64: 21-23. 6 βιβλιογραφικές αναφορές

1. Jorge, F.C. (2008). Recent advances on lignocellulosic based composites for performance and environmentally compatibility improvement. *Molecular Crystals and Liquid Crystals 484, pp 51/[417]-70/[436].*

2. Follrich J, Vay O, Veigel S and U Muller (2009). Comparison of the effect of chemical and mechanical treatment of end-grain surfaces on adhesive bond strength. *Wood Material Science and Engineering 3-4: 98-104.*

3. Follrich J., Muller U., Gindl W. and N. Mundigler (2010). Effects of long term storage on the mechanical characteristics of wood plastic

composites produced from thermally modified wood fibers. *Journal of Thermoplastic Composite Materials 23(6):845-853.*

4. Bavaneghi F. and M. Ghorbani (2016). Mechanical behavior and springback of acetylated particleboard made in different press times. *Wood Material Science and Engineering 11(1):57-61.*

5. Hu Y., He M. and W. Yu (2018). Bonding technology for bamboo based fiber reinforced composites with *phyllostachys bambusoides shounhu. BioResources 13(3):6047-6061.*

6. Pipíška, T., Paril, P., Cermak, P., Domeny, j., Kral, p. and F. Kamke (2020). Effect of chemical and thermal modification, and material replacement on strand board properties. *European Journal of Wood and Wood Products* (2020)

Για την εργασία μου με τίτλο: The resistance of wood modified with linear chain carboxylic acid anhydrides to attack by the marine wood borer *Limnoria quadripunctata* Hothius. International Biodeterioration & Biodegradation 61(2):199-202. 12 βιβλιογραφικές αναφορές

1. Lin LD, Chen YF, Song YW and M. Tsai (2009). Leachability, metal corrosion and termite resistance of wood treated with copper-based preservatives. *International Biodeterioration and Biodegradation 63:533-538.*

2 Khalil Abdul H.P.S., Bhat I.A. and K.B. Awang (2010). Preliminary study of enhanced properties and biological resistance of chemically modified *Acacia ssp. Bioresources* 5(4):2720-2737.

3. Lopes D., Mai C. and H. Militz (2014). Marine borers resistance of chemically portugese wood. *Maderas: ciencia y technologia 16(1):109-124.*

4. Gu X., Liu L., You C., Cheng C and J. Yao (2015). Chemical modification of poplar wood in gas and liquid phase acetylation. *Wood Research 60(2):247-254.*

5. Kluppel A., Cragg S.M., Militz H. And C. Mai (2015). Resistance of modified wood to marine borers. *International Biodeterioration and Biodegradation 104:8-14.*

6. Oldertroen K., Kittikun A., Phongraiht S., Riyajan S. and S. Teanpaisal (2016). Treatment of rubberwood with maleic anhydride to prevent moulds. *Journal of Forest Science 62(7):314-321.*

7. Sequeira T.P. (2013). Evaluacion del effect de la concentracion de anhydrodo acetic, temperatulely y tiempo en la reaccion de acetilacion para la modificacion quimica de. *Ph.D Thesis, Cuidad Universitaria Rodrigo Facio San Jose, Costa Rica.*

8. Passarini L., Zelinka L.S., Glass S.V. and C.G. Hunt (2018). Effect of weight percent gain and experimental method on fiber saturation point of acetylated wood determined by differential scanning calorimetry. *Wood Science and Technology 51:1291-1305.*

9. Janus M., Cragg S., Brischke C, Meyer L. and J. Wehsener (2017). Laboratory screening of thermo-mechanically densified and thermally modified timbers for resistance to the marine borer Limnoria. *European Journal of Wood and Wood Products 76:393-396.*

10. Kyzas G. and K. Matis (2019). The glotation process can go green. *Processes 7, 138; doi 10.3390.*

11. Bongers F. and S. Uphill (2019). Performance of acetylated wood in aquatic applications. *International Journal of Wood Products 10(3):95-101.*

12. Kaldum C., Softje M., Namyslo J. and D. Kaufmann. Chemical improvement of surfaces. Part 5: surfactants as structural lead for wood hydrophobisation-covalent modification with p-alkylated benzoates. *Holzforschung*.

Για την εργασία μου με τίτλο: The biological effectiveness of wood modified with linear chain carboxylic acid anhydrides against the subterranean termites Reticulitermes flavipes. Holz als Roh-und Werkstoff 66(4):249-252. 13 βιβλιογραφικές αναφορές

1. Bhat I.H., Abdul Khalil H.P.S., Awang K.B., Bakare I.O. and A.M. Issam (2010). Effect of weathering on physical, mechanical and morphological properties of chemically modified raw materials. *Materials and Design 31:4363-4368.*

2 Khalil Abdul H.P.S., Bhat I.A. and K.B. Awang (2010). Preliminary study of enhanced properties and biological resistance of chemically modified *Acacia ssp. Bioresources 5(4):2720-2737.*

3. Hague J., Bongers F., Imamura Y., Alexander J. and M. Roberts (2014). The performance of Accoya and Tricoya against attack by subterranean termites. *Proceedings of the 10th Pacific-Termite Research Group Conference, S2:3.*

4. Thomas D., Ding G. and K. Crews (2014). Sustainable timber use in residential construction: Perception versus reality. *WIT Transcations on Ecology and Environment 186:399-410.*

5. Gu X., Liu L., You C., Cheng C and J. Yao (2015). Chemical modification of poplar wood in gas and liquid phase acetylation. *Wood Research 60(2):247-254.*

6. Bongers F., Kutnik M., Paulmier I., Alexander J. and H. Militz (2015). Termite and insect resistance of acetylated wood. *The International Research Group on Wood Protection.* Chile, IRG/WP 14-40703.

7. Saba D. (2011). Investigating the durability of Structures. Bachelor *Thesis, Massachusetts Institute of Technology, USA.*

8. Kusumah S.S., Umemura K. and K. Kanayama (2017). Utilisation of sweet sorghum bagasse and citric acid for manufacturing of particleboard II: influence of pressing time and temperature on particleboard properties. *Journal of Wood Science 63(2):161-172.*

9. Passarini L., Zelinka L.S., Glass S.V. and C.G. Hunt (2018). Effect of weight percent gain and experimental method on fiber saturation point of acetylated wood determined by differential scanning calorimetry. *Wood Science and Technology 51:1291-1305.*

10. Bongers F. And S. Uphill (2019). Performance of acetylated wood in aquatic applications. *International Journal of Wood Products 10(3):95-101.*

11. Kaldum C., Softje M., Namyslo J. and D. Kaufmann. Chemical improvement of surfaces. Part 5: surfactants as structural lead for wood hydrophobisation-covalent modification with p-alkylated benzoates. *Holzforschung.*

12. Figuiredo G.G., Bortolini A., D.M. Stangerlin and D.D. Oliveira (2019). Characterizao technologica da Madeira de trattinnickia burseliforia submedica ao tratamento de acetilacao. *Nativa: Agricultural and environmental Research*

13. Figueiredo, G., Stangerlin, D., Ferreira, M., Zaque, M.L., Pariz, E. and B. Pereira (2020). Qualidade da madeira acetilada de *Eucalyptus urophylla* x *Eucalyptus grandis*. *Advances in Forestry Science 7:905-910.*

Για την εργασία μου με τίτλο: Performance of cement bonded boards made from maple particles. Holz als Roh-und Werkstoff 66: 245-246. 6 βιβλιογραφικές αναφορές

1. Guntekin E and H.T. Sahin (2009). Accelerated weathering performance of cement bonded fiberboard. *Scientific Research and Essay 4(5): 484-492.*

2. Chang, F.C. and F. Lam (2009). Use of mountain pine bettle killed wood to produce cement-bondede composites. *Wood and Fiber Science 41(3):291-299.*

3. Liu, Y.X., Han, J.C., Zhang, X.Q. and H.P. Yu (2009). Preparation process of cement-bonded wheat straw. *Journal of Building Materials 12(3):369-374.*

4. Guntekin, E (2009). Some physical and mechanical properties of cement bonded fiberboard exposed to accelerated aging. *Faculty of Forest Journal, A(1):92-103.*

5. Liu, Y.X., Han, J.C., Zhang, X.Q. and H.P. Yu (2019). Technical study on the production of blocks with composites of cement wooden wastes from pallets of *Pinus sp. Revista de la Construction*

6. Amel B., Paridah M., Rahim S and A. Hussein (2020). Effects of kenaf bast fiber and silica fume content on bending strength and dimensional

stability of cement bonded kenaf composite boards. *Journal of Engineering Science and Technology 15(2): 1124-1138.*

Για την εργασία μου με τίτλο: The effects of drying temperature of wood chips upon the internal bond strength of particleboard. Journal of the Institute of Wood Science 16(5):277-279. 8 βιβλιογραφικές αναφορές

1. Sackey E.K., Semple K.E., Oh S.W. and G.D. Smith (2008). Improving core bond strength of particleboard through particle size redistribution. *Wood and Fiber Science 40(2):214-224.*

2. Sackey, E.K. and G.D. Smith (2009). Empirical distribution models for slenderness and aspect oratios of core particles of particulate wood composites. *Wood and Fiber Science 41(3):255-266.*

3. Sackey, E.K. (2010). Development and modeling of a novel particle mixture for the core configuration of particulate wood composites. *Ph.D Thesis*. The University of British Columbia, Canada.

4. Semple K.E., Xian D., Haghdan S. and G.D.Smith (2014). Reinforced-core particleboard for improved screw-holding ability. *Wood and Fiber Science 46(1):48-64.*

5. Lee S., Lum W., Zaidon A. and M. Maminski (2015). Microstructural, mechanical and physical properties of post heat treated melamine-fortified urea formaldehyde-bonded particleboard. *European Journal of Wood and Wood Products 73(5):607-616.*

6. Sacli C. (2015). The effect of time and edge banding type and thickness on the bending and tensile strength of melamine coated particleboard.

Proceedings of the 27th International Conference on Reseach for Furniture. September 2015, Turkey.

7. Nazerian M. and V. Moazami (2015). Bending strength of sandwich type particleboard manufactured from giant reed. *Forest Products Journal 65(5-6):292-300.*

8. Gutierez R.C., Valenzuela L. and H. Wilson (2018). Mechanical properties and formaldehyde release of boards manufactured with hygrothermally treated tepa particles. *Drvna industrja 69(2):113-120.*

Για την εργασία μου με τίτλο: Reducing the thickness swelling of wood based panels by applying a nanotechnology compound European Journal of Wood and Wood Products 68(2):237-239. 16 βιβλιογραφικές αναφορές

1. Tabarsa A., Jahanshahi S. and A. Ashori (2011). Mechanical and physical properties of wheat straw boards bonded with a tannin modified phenol-formaldehyde adhesive. *Composites: Part B 42:176-180*

2. Sahin H.T. and G.I. Mantanis (2011). Nano-based surface treatment effects on swelling, water sorption and hardness of wood. *Maderas Ciencia y technologia 13(1):41-48.*

3. Moya R., Berrocal A., Zuniga A., Baudrit J. and S.C. Noguera (2014). Effect of silver nanoparticles on white rot wood decay and some physical properties of three tropical wood species. *Wood and Fiber Science 16(4):1-12.*

4. Lahtela V., Hamalainen K. and T. Karki (2013). The effects of preservatives on the properties of wood after modification. *Baltic Forestry 20(1):189-203.*

5. Alves P.A. (2011). Hydrophobic agents for particleboards: formulation and a laboratorial scale testing method development. *Extended Abstract 1-10.*

6. Lube, V.M. (2016). Effects on moisture-induced thickness swelling on the microstructure of OSB. *M.Sc thesis*, University of British Columbia.

7. Da Siva A.P.S. (2018). Analise da influencia de fibras de Madeira. *Ph.D Thesis*, Universidade Estadual Paulista.

8. Valle, ACM (20180. Influencia da adicao de dioxide de titanio nas propriedades fisico-mecanicas de paineis MDP. *Ph.D Thesis*, Universidada de Sao Paulo, Brasil.

9. da Silva A., Ferreira B. and C. Campos (2019). Physical properties of MDF produced with the addition of ZnO nanoparticles. *BioResources 14(1):1618-1625.*

10. Lotter b. and P. Evans (2019). Sprayable hot melt waxes as water repellents for OSB. *International Wood Products Journal* (3):102-110.

11. Silva L., Lima F. and C. de Campos (2019). Heat transfer and physical-mechanical properties analysis of particleboard produced with ZnO nanoparticles addition. *BioResources* 14(4):9904-9915.

12. Taghiyari H., Esmailpour A., Adamopoulos S., Zereshki K. and R. Hosseinpourpia (2020). Shear strength of heat treated solod wood bonded with polyvinyl acetate reinforced by nanowollastonite. *Wood Research 65(2): 183-194.*

13. Valle, A., Ferreira, B. and C. Campos (2020). Physical and mechanical properties of particleboard from *Eucalyptus grandis* produced by urea formaldehyde resin with SiO2 nanoparticles. *Engenharia Agricola 40;289-293.*

14. Christy, E., Sumarlan, S. and A. Soehardjono (2020). Pilot study on low density binderless bark particleboards manufacture from gelam wood bark. *BioResources 15(4):7390-7403.*

15. Youssef, A., Nabil, E. and N. Mahmood (2020). Infuence of polymers loaded with ZnO and TiO2 nanoparticles on thermal resistance of archeological wood. *Egyptian Journal of Chemistry doi:10.21608\ejchem2020.42596.2859.*

16. Gul, M., Alrobei, H., Shah, S., Khan, A., Hussain, A., Asiri, A. and J. Kim (2020). Effect of embedment of MWCNTs for enhancement of physical and mechanical performance of Medium Density Fiberboard. *Nanomaterials 11,29.*

Για την εργασία μου με τίτλο: The sorption of water vapour of wood treated with a nanotechnology compound Wood Science and Technology 44:515-522. 26 βιβλιογραφικές αναφορές

1. Sahin H.T. and G.I. Mantanis (2011). Nano-based surface treatment effects on swelling, water sorption and hardness of wood. *Maderas Ciencia y technologia 13(1):41-48.*

2. Karunanithy C., Muthukumarappan K. And A. Donepudi (2013). Moisture sorption characteristics of corn stover and big bluestem. *Journal of Renewable Energy, Article ID 939504.*

3. De Filpo G., Palermo A.M., Rachiele F. and F.P. Nicoletta (2013). Preventing fungal growth in wood by titanium dioxide nanoparticles. *International Biodeterioration & Biodegradation 85:217-222.*

4. Popescu C. and C.AS. Hill (2013). The water vapour adsorption-desorption behavior of naturally aged *Tilia Cordata* Mill Wood. Polymer *Degradation and Stability 98:1804-1813.*

5. Popescu C.M, Hill C.A.S., Curling S., Ormondroyd G. and Y. Xie (2013). The water vapour sorption of acetylated birch wood: how acetylation affects the sorption isotherm and accessible hydroxyl contents. *Journal of Materials Science 49(5):2362-2371.*

6. Moya R., Berrocal A., Zuniga A., Baudrit J. and S.C. Noguera (2014). Effect of silver nanoparticles on white rot wood decay and some physical properties of three tropical wood species. *Wood and Fiber Science 16(4):1-12.*

7. Bucker M., Jager C., Pfeifer D. and B. Unger (2014). Evidence of Si-O-C in cellulosic materials modified by sol-gel-derived silica. *Wood Science and Technology 48(5):1033-1047.*

8. Troppova E., Svehlik M., Tippner J. and R. Wimmer (2015). Influence of temperature and moisture content on the thermal conductivity of wood based composites. *Materials and Structures 48:4077-4083.*

9. Ahmed S., Naqvi S. and M. Majeed (2016). Hygroscopic properties following drying affects wood consumption by *Odontoterms obesus. Maderas Ciencia y technologia 18(4):627-632.*

10. Simo-Tagne M., Reimold R. and P. Perre (2016). Characterisation of sorption behavior and mass transfer properties of four central Africa tropical woods. *Maderas: Ciencia y technologia 18(1):207-226.*

11. Barkai H., Soumya E., Sadiki M., Mounyr B. and K.S. Ibnsouda (2017). Impact of enzymatic treatment on wood surface energy: contact angle analysis. *Journal of Adhesion Science and Technology 31(7):726-734.*

12. Taghiyari H. and J. Norton (2015). Fluid flow in wood and wood composite panels: effects of nanotechnology. Lignocellulose 4(2):60-78.

13. Redzic A. and E. Nezirevic (2015). Primjena nanotechnologije u povrsinskoj obradi drveta. *10th International Scientific Conference ob Production Engineering, Development and modernization of production*, pp: 1-4.

14. Barkai H., Soumya E. and I.S. Koraichi (2016). Evaluation of hydrophobic-hydrophilic properties and anti-adhesive potential of the cedar wood by two essential oil component against buioadhesion of *Penicillium expansum* spores. *Journal of Applied Sciences 16(8):372-379.*

15. Barkai H., Soumya E., Sadiki M., Mounyr B. and K.S. Ibnsouda (2017). Impact of enzymatic treatment on wood surface energy: contact angle analysis. *Journal of Adhesion Science and Technology 31(7):726-734.*

16. Goffredo G., Cittero B. and P. Munafo (2017). Nanotechnology on wood: the effect of photocatalytic nanocoatings against *Aspergillus niger*. *Journal of Cultural Heritage 27:125-136.*

17. Abbasia J., Samanian K. and M. Afsharpor (2017). Evaluation of polyvinyl butyral and zinc oxide nanocomposite condolidation of historical woods. *International Journal of Conservation Science 8(2):207-2014.*

18. Zhang X., Li, J., Yu Y. and H. Wang (2018). Investigating the water vapour sorption behavior of bamboo with two sorption models. *Journal of Material Science 53:8241-8249.*

19. Deveci I., Sacli C., Turkoglu T. and H. Peker (2018). Effect of SiO_2 nanoparticles treatment on thermal behavior of oriental beech wood. *Wood Research 63(4):573-582.*

20. Patcharawijtt a., Choodum N. and R. Yamsaegsung (2018). Effects of superheated steam treatment on moisture adsorption and mechanical properties of pre-dried rubberwood. *Drying Technology* 37:1647-1655.

21. Popescu, C.M., hill C.A.S. and D. Sun (2018). NIR and DVS to monitor sorption properties of thermal and chemical treated wood material. *World Conference on timber engineering- WCTE 2018*, pp:1-17.

22. Majidi R., Taghiyari H.R. and D. Abdolmaleki (2019). Molecular dynamics simulation evaluating the hydrophilicity of nanowollastonite on cellulose. *Journal of Structural Chemistry* 60:1520-1527.

23. Angelski D. (2019). Effect of some oil and wax furnishes on the water permeability of spruce. *30th International Conference on Wood Science and Technology-ICWST 2019 'Implementation of Wood Science in woodworking Sector & 70th anniversary of Drvna industrija Journal*, pp: 6-10.

24. Chen Q., Wang G. and B. Fei (2020). The effect of graded fibrous structure of bamboo on its water vapor sorption isotherms. Industrial Crops and Products 151: 112467.

25. David, M., Ion R., Grigorescu R., Iancu L. and E. Andrei (2020). Nanomaterilas used in conservation and restoration of cultural heritage: An up to date review. *Materials 13: 2064.*

26. Holy, S., Temiz, A., Demirel, G., Aslan, M., M.H.M. Amini (2020). Physical properties, thermal and fungi resistance of Scots pine wood treated with nano-clay and several metal oxides nanoparticles. *Wood Material Science and Engineering, doi10.1080\17480272.2020.1836023.*

<u>Για την εργασία μου με τίτλο: Decay resistance of cement bonded Oriented Strand Board. Bioresources 1(1): 62-66. 11 βιβλιογραφικές αναφορές</u>

1. Erakhrumen A.A, Areghan S.E., Ogunleye M.B., Larinde S.L. and O. Odeyale (2008). Selected physico-mechanical properties of cement-bonded particleboard made from pine sawdust-coir mixture. *Scientific Research and Essay 3(5): 197-203.*

2. Aro M. (2008). Wood strand cement board. *Proceedings of the 11th International Inorganic-Bonded Fiber Composites Conference, 5-7 November* – Madrid, Spain. Pp: 169-179.

3. Guntekin E and H.T. Sahin (2009). Accelerated weathering performance of cement bonded fiberboard. *Scientific Research and Essay 4(5): 484-492.*

4. Guntekin, E (2009). Some physical and mechanical properties of cement bonded fiberboard exposed to accelerated aging. *Faculty of Forest Journal, A(1):92-103.*

5. Das A.K., Billha M., Shmas I. and O. Hannan (2012). Physical and mechanical properties of bamboo wastage cement bonded board. *Journal of the Indian Academy of Wood Science 9(2):170-175.*

6. Aparecida de Sa V., Bufalino L., Albino V.C.S., Correa A.A., Mendes L.M., and N.N. Almeida (2012). Mistura de tres species de reflorestamento na producao de paineis cimento-madeira. *Revista Arvore, Vicosa-MG 36(3):549-557.*

7. Islam M., Das A.K., Ahmed K and I. Shams (2013). Effects of CaCl2 and $NaHCO_3$ on the physical and mechanical properties of Dhaincha cement

bonded particleboard. *Journal of the Indian Academy of Wood Science 10(2):81-85.*

8. Onuorah E., Okeke C., Nwabanne J., Nnabuife E. and S. Obiorah (2015). The effects of production parameters on properties of a single and 3 layer cement bonded composites made from oil palm fruit bunch and tropical hardwood sawmill residue. *World Journal of Engineering 12(6):577-590.*

9. Falemara B., Ajaji B., Owoyemi J. and S. Folorunso (2016). Physical and Mechanical Properties of Bamboo (Bambusa vulgaris Schrad. Ex Wenld) Based Cement-Bonded Composites as Influenced by Production Variables. Mangroves and Wetlands of Sub-Sahara Africa: Potential for Sustainable Livelihoods and Development. *In the book of Proceedings: 38th Annual Conference of the Forestry Association of Nigeria, Portharcourt, Rivers State, March 7 th – 11 th 2016. pp 801-816*

10. Rana M., Islam N., Nath A. and M. Shams (2020). Influence of chemical additive on the physical and mechanical properties of cement-bonded composite panels made from jute stick. *Journal of Building Engineering*

11. Amel B., Paridah M., Rahim S and A. Hussein (2020). Effects of kenaf bast fiber and silica fume content on bending strength and dimensional stability of cement bonded kenaf composite boards. *Journal of Engineering Science and Technology 15(2): 1124-1138.*

Για την εργασία μου με τίτλο: The biological behaviours of pine wood chemically modified with linear chain carboxylic acid

anhydrides against soft rot fungi. International Biodeterioration & Biodegradation 64(5):409-412 22 βιβλιογραφικές αναφορές

1. Yang X., Ma F., Yu H., Zhang X. and S. Chen (2011). Effects of biopretreatment of corn stover with white rot fungus on low temperatures pyrolysis products. *Bioresource Technology 102(3):3498-3503.*

2. Ofomaja A.E., Ngema S.L. and E.B. Naido (2012). The grafting of acrylic acid onto biosorbents: Effect of plant components and initiator concentration. *Carbohydrate Polymers 90:201-209.*

3. Pholosi A., Ofomaja A.E. and E.B. Naidoo (2013). Effect of chemical extractants on the biosorptive properties of pine cone powder: influence on lead removal mechanism. *Journal of Saudi Chemical Society 17:77-86.*

4. Lato A.D., Quku D. and H. Cota (2013). Modification of some Albanian wood properties through chemical treatment. *International Journal of Physical Sciences 8(9):356-361.*

5. Giudice C.A., Alfieri P.V. and G. Canosa (2013). Decay resistance and dimensional stability of *Araucaria angustifolia* using siloxanes synthesized by sol-gel process. *International Biodeterioration & Biodegradation 83:166-170.*

6. Canosa G., Alfieri P.V. and C.A. Giudice (2013). Dimensional stability, fire performance and decay resistance in wood impregnated with alkylalkoxylsilanes. *International Journal of Engineering and Innovative Technology 3(5): 394-400.*

7. Alfredsen G., Flaete P. and H. Militz (2013). Decay resistance of acetic anhydride modified wood: A review. *International Wood Products Journal 4(3): 137-143.*

8. Pardo T. and J. Alfaro (2014). White rot fungal decay resistance of Teak and Melina wood treated with acetic anhydride. *International Biodeterioration & Biodegradation 88:44-47.*

9. Giudice C.A., Alfieri P.V. and G. Canosa (2015). Siloxanos sintetizados *in situ* por el proceso sol gel para el control del ataque fungilo en maderas de araucaria angustifolia. *3rd Congresso Iberoamericano y XI Jornada, Technicas de restauracion y conservacion del patrimonio. Topic 3-No 6.*

10. Kocaefe D., Huang X. and Y. Kocaefe (2015). Dimensional stabilization of wood. *Current Forestry Reports 1(3):151-161.*

11. Kapidani A. (2015). The effect of sodium chloride treatment on compression strength of silver fir wood. *International Journal of Engineering and Applied Sciences 2(10):38-40.*

12. Arias E.B. (2013). Evaluacion del effect de la concentracion de anhydrodo acetic, temperatulely y tiempo en la reaccion de acetilacion para la modificacion quimica de. *Ph.D Thesis, Cuidad Universitaria Rodrigo Facio San Jose, Costa Rica.*

13. Hassan N., Hamid N. and S. Ujang (2017). Decay resistance of acetic, propionic and butyric anhydrides modified rubberwood against brown rot. *BioResources 12(3):4527-4546.*

14. Huang X., Kocaefe D., Kocaefe Y. and A. Pichette (2018). Combined effect of acetylation and heat treatment on the physical, mechanical and biological behavior of jack pine. *European Journal of Wood and Wood products 76:525-540.*

15. Bech G., Thybring E., Thygesen L. and C. Hill (2017). Chjaracterisation of moisture in acetylated and propionylated radiate pine using low-field nuclear magnetic resonance relaxometry. *Holzforshung 72:225-233.*

16. Canosa G., Alfieri P. and C. Giudice (2018). Low density wood impregnation with water repellent organosilicic compounds. *Journal of Materials Science and Chemical Enfineering 6:39-51*

17. Hamid N., Hassan N., Tahir P. and S. Ujang (2017). Effectiveness of acetic, propionic and butyric anhydride to protect rubberwood from decay by white rot. *IOP Conference series: Materials Science and Engineering 368-012037.*

18. Ding D. and T. Yu (2018). Biodegradation of jute/poly composites by fungi. *Science China Technological Sciences*, DOI: 10.1007/s11431-017-9215-7.

19. Huang X, Kocaefe D, Kocaefe Y and A Pickete (2018). Combined effect of acetylation and heat treatment on physical, mechanical and biological behavior of jack pine wood. *European Journal of Wood and Wood Products 76:525-540.*

20. Alfieri P., Lofeudo R. and G. Canosa (2018). Impregnant formulatiuon to the preservation, protection and consolidation of wood heritage assets. *International Journal of Conservation Science 9(4): 629-640.*

21. Kyzas G. And K. Matis (2019). The glotation process can go green. *Processes 7, 138; doi 10.3390.*

22. Prasher I. (2019). Screening of Peniophora nuda for the presence of commercially important bioactive metabolites. *Vegetos 12:1-9.*

Για την εργασία μου με τίτλο: The sorption of water vapour of wood modified with isopropyl glycidyl ether. Wood Research 53(2): 39-44. 2 βιβλιογραφικές αναφορές

1. Nagasava Y, Samejima M and TM Nakanishi (2010). Research on the modification of wood powder plasticization. *China Forestry Science and Technology 24(5):55-62.*

2. Lang Q., Zeng B., Xinwie M., Xue Z. and J. Pu (2013). Effect of urea formaldehyde prepolymer on fast growing wood. *Wood Research 58(2):191-200.*

<u>Για την εργασία μου με τίτλο: Mold, decay and termite resistance of pine wood treated with zinc and copper based nanocompounds. International Biodeterioration & Biodegradation 90:140-144 61 βιβλιογραφικές αναφορές</u>

1. Nikolic M., Lawther J.M. and A.R. Sanadi (2015). Use of nanofilers in wood coating: a scientific review. *Journal of Coating and Technology Research 12(3):445-461.*

2. Mansour M. and M.Z.M. Salem (2015). Evaluation of wood treated with some natural extracys and paraloid B-72 against the fungus *Trichoderma harzianun*: wood elemental composition, *in vitro* and application evidence. *International Biodeterioration & Biodegradation Journal 100:62-69.*

3. Reinprecht L., Vidholdova Z. and M. Kozienka (2015). Decay inhibition of lime wood with zinc oxide nanoparticles used in combination with acrylic resin. *Acta Facultatis Xylologiae Zvolen 57(1):43-52.*

4. Huang H.H., Lin C. and K. Hsu (2015). Comparison of resistance improvement to fungal growth on green and conventional building materials by nano-metal impregnation. *Building and Environment 93:119-127.*

5. Terzi E., Kartal S., Yilgor N., Rauktari L. and t. Yoshimura (2016). Role of various nano-particles in preservation of fungal decay, mold growth and termite attack in wood and their effect on weathering properties and water repellency. *International Biodeterioration and Biodegradation 107:77-87.*

6. Zhang L., Cai W, Chen W., Zhang L., Hu k. and y Guan (2016). Synthesis of Azphchitosan-bifenthrin PVC to protect carbles. *Carbohydrate Polymers 39:50-60.*

7. Dong Y., Yan Y., Ma H., Zhang S., Li J., Xia C., Shi Q and L. Cai (2017). In situ chemosynthesis of ZnO nanoparticles to endow wood with antibacterial and UV resistance properties. *Journal of Materials Science and Technology 33:266-279.*

8. Reinprecht L., Vidholdova Z. and F. Gaspar (2016). Deacy inhibition of maple wood with nano-zinc oxide used in combination with essential oils. *Acta Facultatis Xylologiae zvolen 58(1):51-58.*

9. Ibnsoyda S., Barkai H. and El. Omar (2016). The effect of cellulose treatment time on the cedar wood surface physicochemical properties. *American Journal of Advanced Scientific Research. 3(3).*

10. Muhcu D., Terzi E., Kartal S and T. Yoshimura (2017). Biologival performance, water absorption and swelling of wood treated with nano-particles combined with the application of Paraloid B72. *Journal of Forest Research 28(2):381-394.*

11. Zhang L., Cai W., Chen W., Zhang L., Hu K and Y. Guan (2016). Synthesis of AzPhcitosan-binenthrin PVC to protect cables against termites. *Carbohydrate Polymers 139:50-60.*

12. Ajdinaj A and A. Kapidani (2013). The effect of sodium chloride treatment on bending strength of silver fir wood. *2nd International Balkan*

Conference on Challenges of Civil Engineering, BCCE, Epoka Unibersity, Albania.

13. Barkai H., Moulay S. and K. Sad (2015). The effect of carvacol and carvone treatments on the cedar wood surface physicochemical properties. *International Journal of Scientific & Engineering Research 6(6):767-772.*

14. Barkai H., Soumya E. and I.S. Koraichi (2016). Evaluation of hydrophobic-hydrophilic properties and anti-adhesive potential of the cedar wood by two essential oil component against buioadhesion of *Penicillium expansum* spores. *Journal of Applied Sciences 16(8):372-379.*

15. Lykidis C., Troya T., Conde M., Calvan J. and G. Mantanis (2017). Termite resistance of beech wood treated with zinc oxide and zinc borate nanocompounds. *Wood Material Science and Engineering 13:45-49.*

16. Goffredo G., Accoroni S., Totti C., Romagnoli T., Valentini L. and P. Munafo (2017). Titanium dioxide based nanotreatments to inhibit microalgal fouling on building stone surfaces. *Building and Environment 112:209-222.*

17. Barkai H., Soumya E., Sadiki M., Mounyr B. and K.S. Ibnsouda (2017). Impact of enzymatic treatment on wood surface energy: contact angle analysis. *Journal of Adhesion Science and Technology 31(7):726-734.*

18. Barkai H., Elabed S. and I. Koraichi (2016). The effect of cellulose treatment on the physic-mechanical surface properties of the cedar wood. *American Journal of Advanced Scientific Research (AJASR). 2:1-8.*

19. Kruger H., Graubann J., Jung C., Maier G. and R. Nusko (2016). Neuartige synthese fur oxidationsstabile kupfernanopartikel. *Metall 70(11):435-437.*

20. Gascon-Garrido P., Thevenon M., Mainusch N. Militz H., Viol W. and C. Mai (2017). Siloxane treated and copper plasma coated wood: Resistance

to the blue stain fungus A. pullulans and the termite R. Flavipes. *International Biodeterioration & Biodegradation 120:84-90.*

21. Lin C. and W. Chen (2017). Effect of paint composition, nano metal types and substrate on the improvement of biological resistance on paint building material. Building and Environment 117:49-59.

22. Bayatkashkoli A., Kamashki B., Ravan S. and M. Shamsian (2017). Comparing of performance of treated particleboard with alkaline copper quat, boron arsenic and chlorotalonil againsy Microcerotermes diversus and Anacanthotermes vagans termite. *International Biodegradation and Biodeterioration Journal 120(1):186-191.*

23. Reinprecht L. and Z. Vidholdova (2017). Growth inhibition of moulds on wood surfaces in presence of nano-zinc oxide and its combinations with polyacrylate and essential oils. *Wood Research 62(1):37-44.*

25. Goffredo G., Cittero B. and P. Munafo (2017). Nanotechnology on wood: the effect of photocatalytic nanocoatings against *Aspergillus niger. Journal of Cultural Heritage 27:125-136.*

25. Nair S., Pandey K., Giridhar B. and G. Vijayalakshmi (2017). Decay resistance of rubberwood impregnated with SnO and CuO nanoparticles dispersed in propylene glycol. *International Biodeterioration & Biodegradation Journal 122:100-106.*

26. Mattos B. and W. Magalhaes (2017). Design and preparation of carbendazin-loaded alumina nanoparticles as a controlled-release biocide for wood protection. *International and Biodeterioration 123:174-181.*

27. Gerullis S., Pfuch A. and B. Grunler (2018). Thin antimicrobial silver, copper or zinc containing SiOx films on wood polymer composites applied by

atmospheric pressure plasma chemical vapour deposition and sol gel technology. *European Journal of Wood and Wood Products 76:229-241.*

28. Roszaini K. and K. Masseat (2018). Heartwood durability of Dyera costulata, Neolamarckia cadamba and Khaya ivorensis trees from fast growth plantations against subterranean termite Coptotermes curvignatus. *Holzforshung72:143-149.*

29. Goffredo G., Terlizzi V. and P. Munafo (2017). Multifunctional TiO_2 based hybrid coatings on limestone: initial performances and durability over time. *Journal of Building Engineering 14:134-149.*

30. Azni M., Norhan A., Lofflad H. and S.N. Roslan (2015). Feasibility study on empty bunch cement board. *ISER 5th International Conference on Environmental and Natural Science, ICENS,* Berlin, Germany.

31. Clerici D. and R. Wagner (2017). Effects of nanostructured essential oils against subterranean termites. *Journal of Applied Entomology*, DOI 10.1111.

32. Arlan M., Tascioglou C., Kose C., Terzi E. and C. Akcay (2018). Effect of leaching on natural durability of some imported wood species against decay fungi. *Duzce Universitesi Bilim ve Teknoloji Dergisi 6:263-274.*

34. Lawan I. and Z. Yuan (2018). Modifications of hemp twine for use as a fiber in cement composite: effects of hybrid treatments. *Cellolose 25:2009-2020.*

35. Knapic S., Santos J. and H. Pereira (2018). Natural durability assessment of thermo modified young wood of eucalyptus. *Maderas: ciencia y technologia 20:489-498.*

36. Shah K. and Y. Lu (2018). Morphology, large scale synthesis and building applications of copper nanomaterials. *Construction and Building Materials 180:544-578.*

37. Reinprecht L. and Z. Vidholdova (2018). Biological resistance and application properties of particleboards containing nano-zinc oxide. *Advances in Material Science and Engineering*, Volume 28, Article ID 2680121.

38. Xie Y. and Y. Zhou (2018). In situ synthesis and anti mold property of nano copper of the heat treated wood. *Journal of South China Agricultural University 39(3):96-101.*

39. Jafari A., Omidvar A. and D. Rasouli (2018). The effect of nano copper oxide on physical properties and leaching resustance of wood polystyrenepolymer. *Journal of Wood and Forest Science and Technology 25(1):9-25.*

40. Can A., Sivrikana H. and B. Hazer (2018). Fungal inhibition and chemical characterization of wood treated with novel polystyrene soybean oil copolymer containing silver nanoparticles. *International Biodegradation and Biodeterioration 133:210-215.*

41. Panek M. and A. Zeidler (2018). Colour stabilization of oak, spruce, larch and Douglas fir heartwood treated with mixtures of nanoparticle dispersions and UV stabilizers after exposure to UV and VIS radiation. *Materials 11, 1653.*

42. Liwen H. (2018). Review on use of metal salt in termite control. *Chem. J. Vector Biol. & Contrl 29(4):407-412.*

43. Bak M. and R. Nemeth (2018). Effect of different nanoparticle treatments on the decay resistance of wood. *BioResources 13(4):7886-7899.*

44. Teng T., Arip M. and H. Lee (2018). Conventional technology and nanotechnology in wood preservation: A review. *BioResources 13(4): 9929-9252.*

45. Borges C., Tonoli G. and T. Junqueira (2018). Nanoparticles based wood preservatives: the next generation of wood protection? *CERNE 24(4):397-407.*

46. Weththimuni M. and m. Licchelli (2019). Improving wood resistance to decay by nanostructured ZnO-based treatments. *Journal of Nanomaterials*. Article ID6713736, 11 pages.

47. Lie S.K., Vestol G., Hoibo O. and L.R. Gobakken (2019). Surface mould growth on wood: a comparison of laboratort screening tests and outdoor exposure. *European Journal of Wood and Wood Products*.

48. Daniel G., Volc J., Halada P. and J. Kim (2019). Method for characterizing extracellular proteins from the cell wall proteome of the copper tolerant fungus *Phialophora malorum*. *International Biodeterioration & Biodegradation.*

49. Uyup M.K., Kharidan T. and L.S. Hua (2019). Resistance improvement of rubberwood treated with zinc oxide nanoparticles and phenoloc resins against white rot fungi *Pycnoporus sanguineus*. *Maderas: Ciencia y technologia 21(4)*

50. Knapic S., Santos J. Santos J. and H. Pereira (2019). Natural durability asessmant of thermo-modified young wood of Eucalyptus. *Maderas: Ciencia y technologia*

51. Ibanez C., Camargo A. and M. Rabinovich (2019. Effectiveness of micronizing zinc boarate to improve its fungicidal properties. *BioResources 14(3):6231-6246.*

52. Alfeiri, P.V., Mohamed C S. and G. Canosa (2019). Wood protection against biotic and abiotic deterioration by the use of silane/nanoparticle system. 4th congreso Latinoamericano de Estructuras de Maderas. CÓDIGO: 4609791.

53. Terzi, E., Kose, C. and S. Kartal (2019). Mold resistance of nano and micronized particles treated wood after artificial weathering process. *Journal of Anatolian Environmental and Animal sciences 4(4):643-646.*

54. Usmani, S., Plarre, R., Hobert, T. and E. Kemnitz (2020). Termite resistance of pine wood treated with nano metal fluorides. *European Journal of Wood and Wood Products*

55. Reinprecht L., Didholdova Z. and J. Izdinsky (2020). Bacterial and mold resistance of selected tropoical wood species. *BioResources 15(3): 5198-5209.*

56. Esmailpour A., Taghirari H., Ghorbanali M. and G. Mantanis (2020). Improving fire retardancy of medium density fiberboard by nanowollastonite. *Fire and Materilas 1-8.*

57. Iqtedar M., Mirza N. and R. Abdullah (2020). Termidicidal activity of mycosynthesized silver nanoparticles from *Aspergillus fumigates* BTCB15. *Revista Mexicana de Ingenieria Qyimica 19(3):1201-1211.*

58. Couto, B., Trevisan, H. and R. Garcia (2020). Effect of the thermal modification and nano ZnO impregnation on the deterioration of Caribbean pine wood. *Maderas Cienciay technologia 22(4):*

59. Verganici, C., Rosu, l., Rosu, D., Mustata, F. and T. Rusu (2020). Sustainable wood coatings made of epoxidized vegetable oils for ultraviolet protection. *Environmental Chemistry Letters doi: 10.1007\s10311-020—01067-w.*

60. da Silva, B.C. Trevisan, H. and R.A. Garcia (2020). Effect of the thermal modification and nano-ZnO impregnation on the deterioration of Carribean pine wood. *Madears Ciencia y technologia 22(4):569-576.*

61. Reinprecht, L., Vidholdova, Z. and J. Izdinsky (2020). Bacterial and mold resistance of selected tropical wood species. *BioResources 15(3):5198-5209.*

Για την εργασία μου με τίτλο: Chemical modification of pinewood with propionic anhydride: effect on the decay resistance and sorption of water vapour. BioResources 1:67-74. 10 βιβλιογραφικές αναφορές

1. Nagasava Y, Samejima M and TM Nakanishi (2010). Research on the modification of wood powder plasticization. *China Forestry Science and Technology 24(5):55-62.*

2. Soltani M., Andalib M. and M. Ravanbakhsh (2013). Some physical and mechanical properties of uncatalysed acetylated paper. *BioResources 8(1):1274-1282.*

3. Thybring E.E. (2013). The decay resistance of modified wood influenced by moisture exclusion and swelling reduction. *International Biodeterioration & Biodegradation 82:87-95.*

4. Lahtela V., Hamalainen K. and T. Karki (2013). The effects of preservatives on the properties of wood after modification. *Baltic Forestry 20(1):189-203.*

5. Ringman R., Pilgard A., Brishke C. and K. Richter (2014). Mode of action of brown rot decay resistance in modified wood: *A review. Holzforschung 68(2):239-246.*

6. Wang J., Gao Z., Tu D., Zesen H., Lin X. and J. Sun (2016). Dimensional stability of board manufactured with wood based panel laths. *BioResources 11(1):174-181.*

7. Gardini A. and D. Pasquini (2012). The impact of cellulose fibre surface modification on some physicochemical properties of the ensuing papers. *Industrial Crops and Products 35:15-21.*

8. Adebawo F., Naithani V., and O. Ogunsanwo (2016). Morphological and intergacial properties of chemically modified tropical hardwood. *RCS Advances 6(8):6571-6576.*

9. Teaca, c. and F. Tanasa (2020). Wood surface modification- classic and modern approaches in wood chemical treatment by esterification reactions. *Coatings 10, 629.*

10. Adebawo, F., Sadeghifar, H., Tilotta, D., Jameel, H., Liu, Y. and L. Lucia (2019). Spectroscopic Interrogation of the Acetylation Selectivity of Hardwood Biopolymers. *Starch – 1900086.*

Για την εργασία μου με τίτλο: Toughness of pine wood chemically modified with acetic anhydride. European Journal of Wood and Wood Products 70:399-400 6 βιβλιογραφικές αναφορές

1. Chen D., Zhang A., Liu C. And R. Sun (2012). Modification of sugarcane bagasse with acetic anhydride and butyric anhydride in ionic liquid 1-Butyl-3-Methylimidazolium chloride. *BioResources 7(3):3476-3487.*

2. Gao X., Li Q. and W. Cheng (2016). Optimisation of hogh temperature and pressurized steam modified wood fibers for high density polypropylene matrix composites using the orthogonal design method. *Materials 9(10):847.*

3. Gao X., Li Q.,Cheng W., Han G. and L. Xuan (2017). High temperature and pressurized steaming/silane coupling co-modification for wood fibers and its effect on the properties of wood fiber/HDPE composites. *Macromolecular Research 25(2):141-150.*

4. Fodor F., Lankveld C. and r. Nemth (20170. Testing common hornbeam acetylated with the Accoya method under industrial conditions. *i Forest – Biogeosciences and Forestry 10:948-954.*

5. Marsich L., Cozzarini L. and A. Ferluga (2018). The effect of acetylation on hybrid poplar after artificial weathering. *International Wood Products Journal 9(3):134-141.*

6. Hongbo Q and C. Fuxiang (2018). Progress in chemical modification of fast growing wood. *Materials Review 32(8):2701-2708.*

Για την εργασία μου με τίτλο: Pyridine catalyst acetylation: influence of mature vs juvenile wood. European Journal of Wood and Wood Products 64:134-136 9 βιβλιογραφικές αναφορές

1. Schwanninger M.A., Stefke B.B. and B.B. Hinterstoisser (2011). Qualitative assessment of acetylated wood with infrared spectroscopy methods. *Journal of Near Infrared Spectroscopy 19(5):349-357.*

2. Severo E.T.D., Calonego F.W. and C.A. Samsigolo (2012). Physical and chemical changes in juvenile and mature wood of Pinus elliotti var by thermal modification. *European Journal of Wood and Wood Products 70:741-747.*

3. Zhang C., Han B., Yao X., Pang L. and X. Luo (2013). Synthesis of konjac glucomannan phthalate as a new biosorbent for copper ion removal. *Journal of Polymer Research 13:20-34.*

4. Calonego F., Severo E.T.D., Latorraca J.V. (2014). Effect of thermal modification on the physical properties of juvenile and mature woods of *Eucalyptus grandis*. *Floresta a Ambiente (dx.doi.org/10.4322/floram).*

5. Nawrot M., Pazdrowski W. Walkowiak R., Szymanski M. and K. Kazmierrczak (2104). Analysis of coniferous species to identify and distinguish juvenile and mature wood. *Journal of Forest Science 60(4):143-153.*

6. Sadeghifar H., Dickerson J.P. and D. Argyropoulos (2014). Quantitative P NMR analysis of solid wood offers an insight into the acetylation of its components. *Carbohydrate Polymers 113:552-560.*

7. Wang L., Liu X., Weng M., Wu F., Li Z. and S. Wang (2015). Amphoteric modification of sugarcane bagasse hemicelluloses and characterization of the novel derivatives. *Asian Journal of Chemistry 25(14):7660-7664.*

8. Lee W., Hong S. and h. Kang (2015). Investigation on the physical properties of acetylated domestic softwoods. *J. Korean Wood Science and Technology 43(4):429-437.*

9. Wincrantz C. (2018). Finger jointing of acetylated scots pine using a conventional MUF resin. *M.Sc Thesis,* University of Stockholm.

Για την εργασία μου με τίτλο: Efficacy of linear chain carboxylic acid anhydrides as wood protection chemicals. International Research Group on Wood Preservation (2002). Cardiff, Wales, U.K. (Document No. IRG/WP 02-30295). 4 βιβλιογραφικές αναφορές

1. Habu N, Nagasava Y, Samejima M and TM Nakanishi (2006). The effect of substituent distribution on the decay resistance of chemically modified wood. *International Biodeterioration & Biodegradation* 57: 57–62.

2. Nagasawa Y., Kodaxchi R., Shibutani S. and N. Habu (2008). Decay and termite resistance of phthaloyated wood. *Wood Preservation 34(1):13-22.*

3. Lin LD, Chen YF, Song YW and M. Tsai (2009). Leachability, metal corrosion and termite resistance of wood treated with copper-based preservatives. *International Biodeterioration and Biodegradation 63:533-538.*

4. Magne M and co-workers (2010). Method for treating lignocellulosic materials, in particular wood and material obtained by this method. *Patent Application Publication.* United States Number 77900239.

Για την εργασία μου με τίτλο: Observation on the performance of CCB and creosote treated fence posts after 18 years of exposure in Greece (2002). International Research Group on Wood Preservation. Cardiff, Wales, U.K. (Document No. IRG/WP 02-30288). 2 βιβλιογραφικές αναφορές

1. Garcia-Valcarcel A.I and Jose L.T. (2006). Leaching of copper, chromium and boron from treated timber during above ground exposure. *Environmental Toxicology and Chemistry 25(9): 2342-2348.*

2. Tomak E.D. and U.C. Yildiz (2012). Applicability of vegetable oil as wood preservative. *Artvin Coruh Universitesi Orman Fakultesi Degrisi 13(1):142-157.*

Για την εργασία μου με τίτλο: Mechanical and physical properties of cement bonded OSB (2006). International Conference for Wood Resources and panel properties. Valenciα, Spain. Pp:315-319. 2 βιβλιογραφικές αναφορές

1. Frybort S. Mauritz R., Teischinger A and U. Muller (2008). Cement bonded composites – a mechanical review. *BioResources 3(2): 602-626.*

2. Olorunnisola A.O. and A. Boboye (2016). Natural fiber reinforced composite hollow pipes for potential use in rural construction intropical Africa. *AgricEngInt: CIGR Journal 18(3):23-28.*

Για την εργασία μου με τίτλο: Mechanical behaviour of pine wood chemically modified with a homologous series of linear chain carboxylic acid anhydrides. BioResource Technology 101(15):6147-6150. 32 βιβλιογραφικές αναφορές

1 Khalil Abdul H.P.S., Bhat I.A. and K.B. Awang (2010). Preliminary study of enhanced properties and biological resistance of chemically modified *Acacia ssp*. *BioResources* 5(4):2720-2737.

2. Khalil Abdul H.P.S., Bakare I.O., Khairul A., Issam A.M. and I.A. Bhat (2011). Effect of anhydride modification on the thermal stability of cultivated *Acacia mangium. Journal of Wood Chemistry and Technology 31:154-171.*

3. Nadal L.M.K., Pinheiro D.C.C. and R.A. Prestes (2012). Optimization of wood flour acetylation by factorial design and partial least squares regression. Quim Nova XY 35(9):1763-1766.

4. Xie Y., Fu O., Wang Q., Xiao Z. and H. Militz (2013). Effects of chemical modification on the mechanical properties of wood. *European Journal of Wood and Wood Products 71(4):401-416.*

5. Pawar P., Koutaniemi S., Tenkanen M. and E.J. Mellerowicz (2013). Acetylation of woody lignocellulose: significance and regulation. *Frontiers in Plant Science 4:1-8. (article 118).*

6. Su M., Chen J., Pan Z., Li X., Xu A. and J. Hong (2014). Study on the preparation and mechanical properties of injection-moulded wood based plastics. *Journal of applied Polymer Science 41376:1-8.*

7. Arias E.B. and J.A. Perez (2014). Chemical modification of calophyllum brasiliense cambess and enterolobium cyclocarpum wood. *Columbia Forestal 17(1):1-3.*

8. Mohtar M.A., Hamid N.H. and M.H. Sahri (2014). Effect of linear carboxylic acid anhydrides on physical and mechanical properties of rubber, acacia and oil palm woods. *Journal of Composites, article ID 983634 (10 pages).*

9. Wang Y., Chen Z., Deng L. and Y. Fan (2014). Study on properties of modified poplar wood. *Advanced Materials Research 926-930: 242-245.*

10. Su M., Chen J. Pan Z., Li X., Xu A. and J. Hong (2014). Study on the preparation and mechanical properties of injection-mouloded wood based plastics. *Journal of Applied Polymer Science 132(5). Article number 41376.*

11. Xie Y., Liu N., Ang Q., Xiao Z., Wang F., Zhang Y. and H. Militz (2014). Combustion behavior of oak wood modified by 1,3 dimethylol-4,5-dihydroxyethyleneurea. *Holzforschung 68(8):881-887.*

12. Kocaefe D., Huang X. and Y. Kocaefe (2015). Dimensional stabilization of wood. *Current Forestry Reports 1(3):151-161.*

13. Yang T., Chang F., Lin C and F. Chang (2016). Effects of temperature and duration of heat treatment on the physical, surface and mechanical properties of Japanese cedar wood. *BioResources 11(2):3947-3963.*

14. Fan Y., ang Y., Yu N., Deng L. and Z. Chen (2016). Study on the relations and distributions of the copper based preservative in standing tree. *Advances in Material Science and Engineering, Article ID 6163179.*

15. Adebawo F., Naithani V., and O. Ogunsanwo (2016). Morphological and intergacial properties of chemically modified tropical hardwood. *RCS Advances 6(8):6571-6576.*

16. Arias E.B. (2013). Evaluacion del effect de la concentracion de anhydrodo acetic, temperatulely y tiempo en la reaccion de acetilacion para la modificacion quimica de. *Ph.D Thesis, Cuidad Universitaria Rodrigo Facio San Jose, Costa Rica.*

17. Gu X., Sun L. and J. Yao (2015). Chemical modification of poplar wood in gas and liquid phase acetylation. *Wood Research 60(2):247-254.*

18. Blanco E. and J. Alfaro (2014). Chemical modification of *calophyllum brasiliense* wood. *Colombia Forestal 17(1):125-132.*

19. Sequeira T.P. (2013). Evaluacion del effect de la concentracion de anhydrodo acetic, temperatulely y tiempo en la reaccion de acetilacion para la modificacion quimica de. *Ph.D Thesis, Cuidad Universitaria Rodrigo Facio San Jose, Costa Rica.*

20. Huang X., Kocaefe D., Kocaefe Y. and A. Pichette (2017). Combined effect of acetylation and heat treatment on the physical, mechanical and biological behavior of jack pine. *European Journal of Wood and Wood Products 76:525-540.*

21. Wang Y., Deng L., Chen S., Chen Z. and Y. Fan (2017). Study on modification of fast-growing Chinese fir stumpage. *IOP Conf. Series: Earth and Environmental Science 108(042084).*

22. Qian J. and S. Yi (2018). Effect of wax and dimethyl silicone oil pretreatment on wood hygroscopicity, chemical components and dimensional stability. *BioResources 13(3):6265-6279.*

23. Marsich L., Cozzarini L. and A. Ferluga (2018). The effect of acetylation on hybrid poplar after artificial weathering. *International Wood Products Journal 9:134-141.*

24. Kaldum C., Softje M., Namyslo J. and D. Kaufmann. Chemical improvement of surfaces. Part 5: surfactants as structural lead for wood hydrophobisation-covalent modification with p-alkylated benzoates. *Holzforschung.*

25. Dong Y., Ma E., Li, J., Zhang S. and M. Hughes (2019). Thermal properties enhancement of poplar wood by substituting poly for the matrix. *Polymer Composites 1-8.*

26. Qin Y., Dong Y. and J. Li (2019). Effect of modification with melamine urea formaldehyde resin on the properties of Eucalyptus and poplar. *Journal of Wood Chemistry and Technology*

27. Chang C., Kuo W. and K. Lu 92019). On the effect of heat treatments on the adhesion, finishing and decay resistance of Japanese cedar and Formosa acacia. *Forests, 10, 586.*

28. Marfo ED. and D.A. Darkwa (2019). Evaluating the dependence on dimensional stability of chemically modified Celtis milbraedtii. UDS International Journal of Development (UDSUD) 6(3):7-16.

29. Rabe s., Klack P., Bahr h. and B. Schartel (2020). Assessing the fire behavior of woods modified by N-methylol croslinking, thermal treatment and acetylation. Fire and Materials 1-10.

30. Yang, L. and H. Liu (2020). Effcet of a combination of moderate temperature heat tyreatment and subsequent wax impregnation on wood hygroscopicity, dimensional stability and mechanical properties. *Forests 11, 920.*

31. Yang, L. and H. Liu (2020). Effect of a combination of moderate temperature heat treatment and subsequent wax impregnation on wood hygroscopicity, dimensional stability and mechanical properties. *Forests, 11:920.*

32. Adebawo, F., Sadeghifar, H., Tilotta, D., Jameel, H., Liu, Y. and L. Lucia (2019). Spectroscopic Interrogation of the Acetylation Selectivity of Hardwood Biopolymers. *Starch – 1900086.*

Για την εργασία μου με τίτλο: The effect of acetylation on bending strength of finger jointed beech wood . Holz als roh Und Werkstoff 66:309-310. 15 βιβλιογραφικές αναφορές

1. Klippel M., Frangi A. and M. Fontana (2011). Influence of the adhesive on the load-carrying capacity of glued laminated timber members in fire. *International symposium on fire Safety Science, pp:1219-1232.*

2 Frangi A., Bertocchi M., Claub S. and P. Niemz (2012). Mechanical behavior of finger joints at elevated temperatures. *Wood Science and Technology 46:793-812.*

3. Lato A.D., Quku D. and H. Cota (2013). Modification of some Albanian wood properties through chemical treatment. *International Journal of Physical Sciences 8(9):356-361.*

4. Klippel M. (2014). Experimental analysis of the fire behavior of finger jointed timber members. *Journal of Structural Engineering 140(3), 04013063.*

5. Mohtar M.A., Hamid N.H. and M.H. Sahri (2014). Effect of linear carboxylic acid anhydrides on physical and mechanical properties of rubber, acacia and oil palm woods. *Journal of Composites, article ID 983634 (10 pages).*

6. Gerardin P. (2016). New alternatives for wood preservation based on thermal and chemical modification of wood - a review. *Annals of Forest Science 73(3):559-570.*

7. Shahverdi M. Dashti H. and A. Hossein (2013). The impact of red heartwood on drying characteristics and mass transfer coefficients in beech wood. *Austrian Journal of Forest Science 13092):85-101.*

8. Hamid N. and M. Hale (2013). Effect of acetylation on the plysical and static bending properties of cultivated *Rotan Manau* grown in peninsular Malaysia. *Tropical Agricultural Science 36(S):79-92.*

9. Chai Y., Liu J., Wang Z. and Y. Zjao (2017). Dimensional stability and mechanical properties of plantation poplar wood esterified using acetic anhydride. *BioResources 12(1):912-922.*

10. Fodor F., Lankveld C. and r. Nemth (20170. Testing common hornbeam acetylated with the Accoya method under industrial conditions. *i Forest – Biogeosciences and Forestry 10:948-954.*

11. Yang M., Chen X. and J. Li (2018). Preparation of wood with better water resistance properties by a one step impregnation of maleic rosin. *Journal of Adhesion Science and Technology 32:2381-2393.*

12. Hlaskova L., Orlowski K. and T. Ochrymiuk. Fracture toughness and shear strength determination for two selected species of central European provenance. *BioResources 13(3):6171-6186.*

13. Shahverdi M., Hadi G., Karami E. and M. Dalvand (2010). Comparison between physical properties and drying behavior of white and red heartwood of Iranian beech. *Proceedings of the International Convention on Society of wood Science and Technology and United Nations Economiv Commission for Europe Timber Committee*. Geneva, Switzerland, paper WS-41 (1-9).

14. Rahmati Y., Naghdi R. and D. Kartoolinejad (2019). Effect of fungal degradation on physicochemical properties of expoloited stumps of oriented beech over a 25 year felling period and the obtained kraft pulp properties. *Journal of Forest Sciences 65:96-105.*

15. Olarinan S., Etiene C. and M. Ruggeberg (2019). Mechanical behavior of acetylated rubber wood subjected to artificial weathering. *Holzforschung*

Για την εργασία μου με τίτλο: Chemical modification of solid wood and wood raw materials for composites production with linear chain carboxylic acid anhydrides: a brief Review. Bioresources 5(1): 499-506. 22 βιβλιογραφικές αναφορές

1 Khalil Abdul H.P.S., Bhat I.A. and K.B. Awang (2010). Preliminary study of enhanced properties and biological resistance of chemically modified *Acacia ssp*. *Bioresources* 5(4):2720-2737.

2. Petric, M. (2013). Surface modification of wood: a critical review. *Reviews of adhesion and adhesives 1(2):216-247.*

3. Alfredsen G., Flaete P. and H. Militz (2013). Decay resistance of acetic anhydride modified wood: A review. *International Wood Products Journal 4(3): 137-143.*

4. Estokova A., Harbulakova O., Luptakova A. and N. Stevulova (2014). Performance of fiber cement boards in biogenic sulphate environment. *Advanced Materials Research 897: 41-44.*

5. Owoyemi J.M. and O.S. Olarinan (2014). Natural resistance of ten selected Nigerian wood species to subterranean termites attack. *International Journal of Biological Sciences and Applications 1(2):35-39.*

6. Umar A., Abdullahi I. and A. Aliyu. Development and performance evaluation of chicken feather-plastic composite particleboard. *www.futminna.edu.ng , pp:445-451.*

7. Olufemi B., Hass P., Keplinger T. and I. Burgert (2016). Mechanical resistance of acetylated and densified bombax wood. *FUTA Journal of Research in Sciences 1:148-155.*

8. Kukerova V., Langana R., Vybohova E. and T. Hyrosova (2016). The effect of chemical changes during heat treatment on the colour and mechanical properties of fir wood. *BioResources 11(4):9079-9094.*

9. Saba D. (2011). Investigating the durability of Structures. *Bachelor Thesis*. Massachusetts Institute of Technology, USA.

10. Ringman R., Pilgrad A., Brischke C. and K. Richter (2013). Mode of action of brown rot decay resistance in modified wood: a review. *Holzforschung 68(2):239-246.*

11. Alfredsen G., Fossdal C., Nagy N., Jellison J. and B. Goodbell (2016). Furfurylated wood: impact on postia placenta gene expression and axalate crystal formation. *Holzforschung 70(10):947-962.*

12. Chai Y., Liu J., Wang Z. and Y. Zjao (2017). Dimensional stability and mechanical properties of plantation poplar wood esterified using acetic anhydride. *BioResources 12(1):912-922.*

13. Passarini L., Zelinka L.S., Glass S.V. and C.G. Hunt (2018). Effect of weight percent gain and experimental method on fiber saturation point of acetylated wood determined by differential scanning calorimetry. *Wood Science and Technology 51:1291-1305.*

14. Sanderg D., Kutnar A. and G. Mantanis (2017). Wood modification technologies a review. *I Forest – Biogeosciences and Forestry 10:895-908.*

15. Marfo E. and E. Wereko (2017). Dimensional stabilization of a tropical hardwood species. *UDS International Journal of Development* 4(2):2026-5336.

16. Sarker, F., Potluri, P., Afroj, s., Koncherry, V., Novoselov, S. and N. Karim (2020). Ultrahigh Performance of Nanoengineered Graphene-Based Natural Jute Fiber Composites. *ACS Applied Materials and Interfaces*

17. Esmailpour A., Taghirari H., Ghorbanali M. and G. Mantanis (2020). Improving fire retardancy of medium density fiberboard by nanowollastonite. *Fire and Materilas 1-8.*

18. Gaitan-Alvarez, J., Berrocal, A., Mantanis, G., Moya, R. and F. Araya (2020). Acetylation of tropical hardwood species from forest plantations in Costa Rica: an FTIR spectroscopioc analysis. Journal of Wood Science 66:49.

19. Varganici, C., Rosu, L., Rosu, D., Mustata, F. and T. Rusu (2020). Sustainable wood coatings made of epoxidized vegetable oils for ultraviolet protection. *Environmental Chemistry Letters*

20. Esmailpour, A., Taghiyari, H., Majidi, R., Babaali, S., Morrell, J. and B. Mohammadpanah (2020). Effects of adsorption energy on air and liquid permeability of nano-wollastonite treated medium density fiberboard. *IEE Transactions on Instrumental and Measurement*

21. Grace, A., Yekken, O. and O.S. Olalekan (2020). Decay resistance of the acetylated tropical hardwood species. *Journal of Forest and Environmental Science 36(2): 225-232.*

22. Adebawo, F., Ogunsanwo, O, and O.S. Olalekan. Decay resistance of the acetylated tropical hardwood species. *Journal of Forest and Environmental Science 36(3):225-232.*

Για την εργασία μου με τίτλο: Decay of Anhydride Modified Wood. Proceedings of the 1st European Conference on Wood Modification. Ghent, Belgium. Pp: 143-152. 7 βιβλιογραφικές αναφορές

1. Hill CAS, Hale MD and S. Forster (2004). Investigations of the role of cell wall moisture content and micropore blocking in the decay protection mechanism of anhydride modified wood. Final *Workshop COST Action E22 'Environmental friendly optimisation of wood protection'*. Lisboa, Portugal, Pp: 1-8.

2. Hill CAS, Ormondroyd G, Karim S, Forster S, Jones D, Suttie E and N. Howard (2005). The decay resistance of anhydride modified wood: A study of

the mechanisms. *Proceedings of the 2nd European Conference on Wood Modification*. Gottingen, Germany. Pp:100-107.

3. Hamid N.A. and M.D.C. Hale (2012). Decay threshold of acetylated rattan against white and brown rot fungi. *International Wood Products Journal 3(2): 96-106.*

4. Alfredsen G., Flaete P. and H. Militz (2013). Decay resistance of acetic anhydride modified wood: A review. *International Wood Products Journal 4(3): 137-143.*

5. Fodor F., Nemeth R., Lankveld C. and T. Hofmann (2017). Effect of acetylation on the chemical composition of hornbeam in relation with the physical and mechanical properties. *Wood Material Science and Engineering 13:271-278.*

6. Hassan N., Hamid N. and S. Ujang (2017). Decay resistance of acetic, propionic and butyric anhydrides modified rubberwood against brown rot. *BioResources 12(3):4527-4546.*

7. Fodor F., Lankveld C. and r. Nemth (20170. Testing common hornbeam acetylated with the Accoya method under industrial conditions. *i Forest – Biogeosciences and Forestry 10:948-954.*

Για την εργασία μου με τίτλο: Natural durability and performance of hornbeam cement bonded particleboard. Maderas. Ciencia y Tecnologia 11(2): 93-98. 22 βιβλιογραφικές αναφορές

1. Babatunde A. (2011). Durability characteristics of cement-bonded particleboards manufactured from maize stalk residue. *Journal of Forestry Research 22(1):111-115.*

2. Nazerian A., Gozali E. and M.D. Ghalehno (2011). The influence of wood extractives and additives on the hydration kinetics of cement paste and cement-bonded particleboard 11(12):2186-2192.

3. Ferraz, J.M. (2011). Producao e propriedades de paineis de fibra de coco verde (*Cocos nucifera* L.) em mistura com cimento Portland. *M.Sc Thesis, Universidade de Brasilia, Faculdade de technologia.*

4. Ahmad Z., Wee, L.S. and M.A. Fauzi (2011). Mechanical properties of wood-wool cement composite board manufactured using selected Malaysian fast grown timber species. *ASM Science Journal 5(1):27-35.*

5. Sottande O.A., Oluwadare A.O. Ogedoh O. and P.F. Adeogun (2013). Evaluatiuon of cement-bonded particleboard produced from *Afzelia Africana* wood residues. *Journal of Engineering Science and Technology 7(6):732-743.*

6. Wang C., Zhang S. and H. Wu (2013). Performance of cement bonded particleboards made from grapevine. *Advanced Materials Research 631-632:765-770.*

7. Omoniyi T.E., Akinyemi B.A. and A.O. Olusoji (2013). Development of bamboo-rice husk ash and cement mixture for livestock house roofing sheets. *American Journal of Scientific and Industrial Research 4(2):201-209.*

8. Omoniyi T.E. and B.A. Akinyemi (2013). Hydration characteristics of bagasse in cement-bonded composites. *International Journal of Composite Materials 3(1):1-6.*

9. Aisien F., Amenaghawon A. and F. Onyekezine (2013). Roofing sheets produced from cassava stalks and corn cobs: evaluation of physical and mechanical properties. *International Journal of Scientific Research in Knowledge 1(12):521-527.*

10. Islam M., Das A.K., Ahmed K and I. Shams (2013). Effects of CaCl2 and $NaHCO_3$ on the physical and mechanical properties of Dhaincha cement bonded particleboard. *Journal of the Indian Academy of Wood Science 10(2):81-85.*

11. Nasser R.A., Al-Mefarrej, Abbel Aal M.A. and T.S. Alshahrani (2014). Effects of tree species and wood particle size on the properties of cement bonded particleboard manufacturing from tree prunings. *Journal of Environmental Biology 35:961-971.*

12. Lavras, MG (2015). Tretamento do residuo da depuracao da industria de cellulose para producao de chapas mineiras. *Ph.D Thesis, Universidade Federal de Lavras, Brasil.*

13. Aladejana J.T. (2016). Asseessment of selected physical and mechanical properties of cement bonded board produced ftom *Gliricidia sepium. ProLigno 12(1):39-50.*

14. de Silva Cesar A.A.,Tahara A.S., Andrande L.M.F., Mesquita R. And L. Bufalino (2016). Paineis cimento Madeira produzidos com residuo da polpacao. *XV Ebranem – Encontro Brasileiro em Madeiras e em Esturutas de Madeira, 09-11 March, Curitiba, Brasil.*

15. Nasser, A., Salem M., Al-Mefarrej and I.Aref (2016). Use of tree pruning wastes for manufacturing of wood reinforved cement composites. *Cement and Concrete Composites 72:246-256.*

16. Izekor D.N. and A.A. Erakhrumen (2015). Physico-mechanical properties of cement bonded particleboards of bamboo fibers. *Journal of Tropical Forestry and Environment 5(1):31-40*

17. Cavdar A.D., Yel H., Boran S. and E. Pesman (2017). Cement type composite panels manufactured using paper mill sludge as filler. *Construction and Building Materials 142:410-419.*

18. Adejoba O.R., Oriire L. and O. Areo (2017). Effects of pre-treatment methods on wood cement bonded board of A. Africana. *Journal of Forestry Research and Management 14(2):55-64.*

19. Cabral M., Nakanishi E. and J. Fiorelli (2018). Potential of Jerusalem artichoke stalks to produce cement bonded particleboards. *Industrial Crops and Products 122:214-222.*

20. da Silva Cesar and l.M. Mendes (2019). Pretreated unbleached cellulose screen reject for cement-bonded fibreboards. *European Journal of Wood and Wood Products*

21. Rana M., Islam N., Nath A. and M. Shams (2020). Influence of chemical additive on the physical and mechanical properties of cement-bonded composite panels made from jute stick. *Journal of Building Engineering*

22. Tichi A., Khademieslam H. And M. Divkolae (2020). Influence of nanowollastonite on physical, mechanical amd morphological properties of gypsum composites manufactured from bagasse. *Maderas: Ciencia y technologia 22:*

Για την εργασία μου με τίτλο: Physical-mechanical properties and decay resistance of Acer platanoides L. cement bonded particleboards. Journal of International Research Publications Bulgaria, Science Invest LTD., branch Bourgas, Vol. 2, Issue

<u>Technomat & Infotel – Materials, Methods -and Technology, pp 81-87. 1 βιβλιογραφική αναφορά</u>

1. Chang, F.C. and F. Lam (2009). Use of mountain pine bettle killed wood to produce cement-bondede composites. *Wood and Fiber Science 41(3):291-299.*

<u>Για την εργασία μου με τίτλο: Property comparisons and bonding efficiency of UF and PMDI bonded particleboards as affected by key process variables. Bioresources 1(2):201-208. 48 βιβλιογραφικές αναφορές</u>

1. Koroh, D.N. (2008). Kaulitas papan partikel beremisi formaldehida rendah dari limbah inti kenaf (*Hibiscus cannabinus* L.). *M.Sc Thesis*. Sekolah Pascasarjana, Institut Pertanian Bogur, Indonesia.

2. Erniwati (2008). Developing of matting bamboo layers composite board from East growning species wood bonded by polyurethane adhesive. *Ph.D Thesis, Bogor Agricultural University.*

3. Gupta M., Chauhan M., Khatoon N. and B. Singh (2010). Composite boards from isocyanate bonded pine needles. *Journal of Applied Science 118:3477-3489.*

4. Abdolzadeh H., Doosthoseini K., Karimi A.N. and A.A. Enayati (2011). The effect of acetylated particle distribution and type of resin on physical and mechanical properties of poplar particleboard. *European Journal of Wood and Wood Products 63:3-10.*

5. Tagiyhari H.R., Rangavar H. and O.F. Bibilan (2011). Effect of nano-silver on reduction of hot pressing time and improvement of mechanical and physical properties of particleboard. *BioResources 6(4):4067-4075.*

6. Taghiyari H.R., Ghorbani M. and A. Kalantari (2013). Effects of nano-silver on gas and liquid permeability of particleboard. *Digest Journal of Nanomaterials and Biostructures 6(4):1517-1525.*

7. Tagiyhari H.R and O.F. Bibilan (2013). Effect of copper nanoparticles on permeability, physical and mechanical properties of particleboard. *European Journal of Wood and Wood Products 71(1):69-77.*

8. Dettmer J. (2013). Properties comparison of north American manufactured particleboard and medium density fiberboard. Ph.D Thesis, *University of British Columbia, Canada.*

9. Taghiyari H.R., Ghorbani M. and A. Kalantari (2013). Effects of silver and copper nanoparticles on gas and liquid permeability of heat treated solid wood. *Special Topics and Reviews in Porous Media 4(1): 81-97.*

10. Rangavar H., Taghiyari H.R. and M. Mehr (2013). Effects of nanocopper on physical and mechanical properties of MDF. *Journal of Tropical Forest Science 25(2): 184-192.*

11. Gharehbash N., Shakeri A. and D. Khailikov (2013). A study of physical and mechanical properties of polypropylene nanocomposites/modified nano clay. *Life Science Journal 10(2):458-463.*

12. Taghiyari H.R. (2014). Nanotechnology in wood and wood composite materials. *Journal of Nanomaterials & Molecular Nanotechnology 3:1.*

13. Lampert N.S. (2014). Quantification of resin efficiency in wood composite panels. *M.Sc Thesis*, Oregon state University, USA.

14. Taghiyari H.R., Ghorbanali M. and P.M.D. Tahir (2014). Effects of the improvement in thermal conductivity coefficient by nano-wollastonite on physical and mechanical properties in MDF. *BioResources 9(3):4138-4149.*

15. Taghiyari H.R., Schimdt O., Bari E., Tahir P., Karimi A., Nouri P. and A. Jahangiri (2014). Effect of silver nanoparticles on the rate of heat transfer to trhe core of the MDF mat. *The International Research Group on Wood Protection. 45th annual meeting St George, Utah, USA.*

16. Barbosa J., Anderson L., Michelon V. and A Christoforo (2014). Medium Density Particleboard reinforced with bamboo laminas. *BioResources 10(1):330-335.*

17. Taghiyari H.R and J. Norton (2014). Effect of silver nanoparticles on hardness in MDF. *Forest-Biogeosciences and Forestry:e1-e4.*

18. Dettmer J. and G. Smith (2015). Comparing properties of north American manufactured particleboard and medium density fiberboard- Part II: Medium density fiberboard. *BioResources 10(3):6032-6043.*

19. Wahab R., Rasat M., Salam M., Moktar J., Mazlan m. and S. Don (2015). Measurment on properties of empty fruit bunch oil palm composite boards at different density and resin contents. *Advances in Environmental Biology 9(23):352-360.*

20. Wahab R, Marlia S. and I. Khalid (2015). Properties of empty fruit bunch oil palm composite boards at different densities and resin contents. *Journal of Plant Sciences 10(5): 179-190.*

21. Tay C.C., Hamdan S. and M. Osman (2016). Properties of sago particleboards resonated with UF and PF resin. *Advances in Material Science and Engineering,* Article ID 5323890.

22. Klimek P., Wimmer P. and B. Plinke (2016). Using sunflower topinambour and cup-plant stalks as alternative raw materials for particleboards. *Industrial Crops and Products 92:157-164.*

23. Klimek P., Wimmer R., Mishra P. and J. Kudela (2017). Utilising brewer's spent grain in wood based particleboard manufacturing. *Journal of Cleaner Production 141:812-817.*

24. Taghiyari H. and J. Norton (2015). Fluid flow in wood and wood composite panels: effects of nanotechnology. Lignocellulose 4(2):60-78.

25. Gharehbash N., Shakeri A. and D. Khalikov (2015). A study of physical and mechanical properties of polypropylene nano composites/modified nano clay. *Life Science Journal 12(8):78-83.*

26. Cao Y., Song W. and S. Zhang (2017). The properties of particleboard made from alkaline treated wheat straw and methyllene diplenyl diisocyanate binder. *BioResources 12(2):3265-3276.*

27. Wahab R., Mustafa M., Rasat M. and S. Don (2017). Physical, mechanical and thermal properties of empty fruits bunches composite boards. *International Journal of Current Research 9(6):52942-52948.*

28. Wahab R., Rasat M., Samsi H., Mustafa M. and S. Don (2017). Assessing the suitability of agro waste from oil palm empty fruits bunches as quality eco-composite boards. *Journal of Agricultural Science 9(8):2017.*

29. Wahab R., Rasat M., Samsi H., Mustafa M. and S. Don (2017). Properties of empty fruits bunches eco-composite boards from Elaeis guineesis. *Journal of Agricultural Studies 5(3):2017.*

30. Tudor E., Barbu M., Petutschnigg A. and R. Rech (2017). Added value for wood bark as a coaling layer for flooring tiles. *Journal of Cleaner Production 55:67-81.*

31. Younesi-Kordkheili and A. Pizzi (2017). Improving the physical and mechanical properties of particleboard made from urea glyoxal resin by addition of pMDI. *European Journal of Wood and Wood Products 76:871-876.*

32. Ghani A., Bawon P., Ashari Z., Wahab M. and L. Hua (2017). Addition of propylamine as formaldehyde scavenger for urea formaldehyde bonded particleboard. *Wood Research 62(2):329-334.*

34. Kordheili H., Pizzi A. and A. Mohhamadghasemipour (2017). Improving the properties of ionic liquid treated lignin urea formaldehyde resins by a small addition of isocyanate for wood adhesive. *Journal of Adhesion 95:406-419.*

35. Klimek P., Wimmer R., Meinlschmidt and J. Kudela (2018). Utilising miscanthus stalks as raw material for particleboards. *Industrial Crops and Products 111:270-276.*

36. Klimek P. and R. Wimmer (2017). Alternative raw materials for bio-based composites. *International Conference 'Wood Science and Engineering in the third milennium', ICWSE* 2017, pp:29-43.

37. Abolagi A., Kofoworola O. and A. Olaitan (2017). Suitability of mango seed shell particles and recycled high density polyethylene composites for production of particleboard. *American journal of Engineering Research 6(8):314-325.*

38. Thongkanluang T. and P. Kahawong (2018). Physical and mechanical properties of fiberboards from oil palm empty fruit bumch fibers mixed with water hyacinth fibers. *SNRU Journal of Science and Technology 10(1):52-57.*

39. Klimek P., Wimmer R., Mishra P. and J. Kudela (2017). Utilizing brewer;s spent grain in wood based particleboard manufacturing. *Journal of Cleaner Production 14:812-817.*

40. Salem M.Z., Bohm M. and W.A. Elgat (2018). Some physic-mechanical characteristics of uncoated OSB ECO-products made from Scots pine and bonded with pMDI resin. *BioResources 13(1):1814-1828.*

41. Klimek P. and R. Wimmer (2017). Alternative raw materials for bio-based composites. *ProLigno 13(4):27-41.*

42. Wahab R and H. Samsi (2019). Properties of composite boards properties from empty fruit bunch. *Borneo Journal of Sciences and Technology 1(1):53-61.*

43. Solt P. And H. Van Herwingen (2019). Technological performance of formaldehyde free adhesive alternatives for particleboard industry. *Adhesion & Adhesives 94:99-131.*

44. Sahin H. and V. Cavdar (2019). *Duzce Universitesi Bilim ve Teknoloji Dergisi 7:1957-1968.*

45. Buryawan A. and E.M. Alamsyah (2019). Thermal properties of isocyanate as a partiocleboard's adhesive. *The 14th Pacific Rim Bio-Based Composites Symposium, 593, 012004.*

46. Akinyemi B., Okonkwo C., Alhassan E. and M. Ajiboye (2019). Durability and strength properties of particleboard from polystyrene-wood wastes. *Journal of Material Cycles and Waste Management*

47. Dumitrescu A., Lunguleasa A., Salca E. and V. Ciobanu 92019). Evaluation of selected properties of OSB made from fast growing wood species. *BioResources 15(1):199-210.*

48.	Solt P., Libowitzky S., Herwinjen H. and J. Konnerth (2019). Improved method for analyzing cohesive strength development of pPMDI. *Wood Science and Technology*.

Για την εργασία μου με τίτλο: Urea formaldehyde and PMDI isocyanate resin for particleboard: Property comparison and the effect of selected process variables on their bonding efficiency. Journal of the Institute of Wood Science 15(5): 278-283. 2 βιβλιογραφικές αναφορές

1.	Gamage N. (2007). Economical particleboard production using hardwood sawmill residues. *Ph.D Thesis*. RMIT University, Australia.

2.	Wong K.K. (2012). Optimising resin consumption, pressing time and density of particleboard made of mixes of hardwood sawmill residue and custom flaked softwood. *Ph.D Thesis, RMIT University*.

Για την εργασία μου με τίτλο: Decay resistance of cement bonded oriented strand board. Journal of the Institute of Wood Science 18(2): 109-111. 3 βιβλιογραφικές αναφορές

1.	Teixeira D.E. (2012). Recycled old corrugated container fibers for wood-fiber cement sheets. *International Scholary Research Network, Article ID 923413*.

2.	Hirschmuller S., Marte R., Pravida J. and M. Flach (2018). Inhibited wood defradation of cement coated beech laminated veneer lumber (LVL) for temporary in ground conditions. *European Journal of Wood and Wood Products*

3. Hirchmuller S. (2019). Beech circular hollow laminated veneer lumber sections for temporary soil nailing applications. *Ph.D Thesis*, Graz University of Technology, Austria.

Για την εργασία μου με τίτλο: Surface treatment technologies applied to wood surfaces. Furniture Design and Manufacturing (FDM) Asia – Solid wood and panel technology. May-June issue, pp: 36-39. 5 βιβλιογραφικές αναφορές

1. Soltani M., Nafaji A., Yousofian S., Naji H. and E.S. Bakar (2015). Water repellent effect and dimension stability of beech wood impregnated with nano-zinc oxide. *BioResources 8(4):6280-6287.*

2. Zigon J, Petric M and S Dahle (2018). Dielectric barrier discharge plasma pretreatment of lignocellulosic materials in air at atmospheric pressure for their improved wettability: a literature review. *Holzforshung 72:979-991.*

3. Wang X., Zhang W. and J. Pu (2019). A simple and efficient method to fabricate superhydrophobic wood with enhanced mechanical durability. *Forests, 10, 750.*

4. Stanciu, D., Sova, D., Savin, A., Ilias, n. and G. Gorbacheva (2020). Physical and mechanical properties of ammonia-treated black locust wood. *Polymers 12, 377.*

5. Han, X., Wang, Z., Zhang, Q. and J. Pu (2019). A simple and efficient method to fabricate syperhydrophobic wood with enhanced mechanical durability. *Forests 10, 750.*

Για την εργασία μου με τίτλο: The effect of acetylation on the Janka hardness of pine wood. European Journal of Wood and Wood Products 69:499-500 17 βιβλιογραφικές αναφορές

1. Chen D., Xu Q.L.Y., Feng Z., Wu G. and Pu J. (2012). Effect of thermal treatment with methylolurea impregnated on poplar wood. *BioResources 7(4):5279-5289.*

2. Lato A.D., Quku D. and H. Cota (2013). Modification of some Albanian wood properties through chemical treatment. *International Journal of Physical Sciences 8(9):356-361.*

3. Lahtela V., Hamalainen K. and T. Karki (2013). The effects of preservatives on the properties of wood after modification. *Baltic Forestry 20(1):189-203.*

4. Huang H., Wu G., Sun E. and Z. Chang (2013). The influence of heat treatment on the properties of breeding biocontainer. *Applied Mechanics and Materials 341-342:119-123.*

5. Jebrane M., Fernandez C., Panov D., Terziev N. and G. Daniel (2015). Novel hydrophobization of wood by epoxidised linseed oil Part 2: characterization by FTIR spectroscopy and SEM and determination of mechanical and field test performance. *Holzforschung 69(2):179-186.*

6. Lee W., Hong S. and h. Kang (2015). Investigation on the physical properties of acetylated domestic softwoods. *J. Korean Wood Science and Technology 43(4):429-437.*

7 Kapidani A. (2015). The effect of sodium chloride treatment on compression strength of silver fir wood. *International Journal of Engineering and Applied Sciences 2(10):2394-3661.*

8. Laine K., Segerholm K. and C. Lankveld (2016). Surface densification of acetylated wood. *European Journal of Wood and Wood Products 74(6):829-835.*

9. Lahtela V. and T. Karki (2015). Determination and comparison of some selected properties of modified wood. *Wood Research 60(5):763-772.*

10. Ajdinaj A and A. Kapidani (2013). The effect of sodium chloride treatment on bending strength of silver fir wood. *2nd International Balkan Conference on Challenges of Civil Engineering, BCCE, Epoka Unibersity, Albania.*

11. Lahtela V. (2016). Improning the properties of solid scots pine wood by using modification technology and agents. *Ph.D Thesis, LUT, University of Technology, Finland.*

12. Fodor F., Nemeth R., Lankveld C. and T. Hofmann (2018). Effect of acetylation on the chemical composition of hornbeam in relation with the physical and mechanical properties. *Wood Material Science and Engineering 13:271-278.*

13. Fodor F., Lankveld C. and r. Nemth (20170. Testing common hornbeam acetylated with the Accoya method under industrial conditions. *i Forest – Biogeosciences and Forestry 10:948-954.*

14. Bari, E .and M. Najafian (2019). An innovative method for the chemical modification of *Carpinus betulus* wood: a methodology and approach study. *Holzforschung* 73:839-846.

15. Figuiredo G.G., Bortolini A., D.M. Stangerlin and D.D. Oliveira (2019). Caracterizao technologica da Madeira de trattinnickia burseliforia submedica ao tratamento de acetilacao. *Nativa: Agricultural and environmental Research*

16. Figueiredo, G., Stangerlin, D., Ferreira, M., Zaque, M.L., Pariz, E. and B. Pereira (2020). Qualidade da madeira acetilada de *Eucalyptus urophylla* x *Eucalyptus grandis*. *Advances in Forestry Science 7:905-910*.

17. Schardosin, F., Nisgoski, S., Cademartori, P. and G. Muniz (2020). Comparison of the effects of acetylation and paraffin emulsion impregnation in pine wood. *Journal of Tropical Forest Science 32(3):237-245*.

Για την εργασία μου με τίτλο: Mechanical properties and decay resistance of hornbeam cement bonded particleboard. Research Letters in Materials Science. Article ID 379749, 5 pages. Doi:10.1155/2008/379749. 9 βιβλιογραφικές αναφορές

1. Faria G., Chastre C., Lucio V and A. Nunes (2013). Compression behaviour of short columns made from cement-bonded particleboard. *Construction and Building Materials 40:60-69*.

2. Setiadji R. and A.A. Husin (2012). Utilisation of eucalyptus oil pefineries waste from cement particleboard. *International Journal of sustainable Construction Engineering and Technology 3(2):1-10*.

3. Alvito J.A. (2013). Comportamento structural de ligacoes em paines de cement bonded particleboards. *Master Thesis, Faculdade de Ciencias e Technologia, universidade Nova de Lisboa.*

4. Abdelrhman H., Paridah M., Shahwahid., Samad A. and A. Abdalla (2015). The effects of pre-treatments, wood cement ratios and partial cement substitution on *Prosopis chilensis* wood composites. *European Journal of Wood and Wood Products 73:557-559.*

5. Yu Y., Hou J., Dong Z., Wang C., Lu F. and P. Song (2016). Evaluating the flammability performance of Portland cement bonded particleboard with different cement-wood ratios using a cone calorimeter. *Journal of Fire Sciences 34(3):199-211.*

6. Amel A., Paridah M., Rahim S., Zakiah A and A. Hussein (2017). Physical, mechanical characteristics of cement bonded kenaf bast fibers composite boards with different densities. *Journal of Engineering Science and Technology 12(8):2254-2267.*

7. Reinprecht L. and Z. Vidholdova (2018). Biological resistance and application properties of particleboards containing nano-zinc oxide. *Advances in Material Science and Engineering*, Volume 28, Article ID 2680121.

8. Direske M., Wenderdel C and D. Krug (2018). Cement as an inorganic binder for the production of formaldehyde free bonded plywood. *ProLigno 14(4):16-22.*

9. Ogunjobi K. and O. Thompson (2019). Effects of board density and mixing ration on the physicomechanical properties of cement bonded particleboard produced from sawdust. *Agriculture and Forestry Journal 3(2):58-63.*

Για την εργασία μου με τίτλο: Bonding efficiency of UF and EMDI bonded particleboards as affected by mat moisture and wax content. Proceedings of the 5th European Panel Products Symposium. Llandudno, Wales, U.K. pp: 277-279. 1 βιβλιογραφική αναφορά

1. Kojima Y., Nakata S. and S. Suzuki (2009). Effects of manufacturing parameters on hinoki particleboard bonded with MDI resin. *Forest Products Journal 59(5):29-34.*

Για την εργασία μου με τίτλο: Determination of key board properties based on cylindrical specimens. Journal of the Institute of Wood Science 17(3):146-147. 1 βιβλιογραφική αναφορά

1. Votsi N., Drakou E., Mazaris A., Kalimanis A. and J. Pantis (2012). Distance-based assessment of open country Quiet Areas in Greece. *Landscape and Urban Planning 104:279-288.*

Για την εργασία μου με τίτλο: Decay resistance in ground stake test of acetylated OSB after six years of testing. European Journal of Wood and Wood Products 67(3):365-366. 2 βιβλιογραφικές αναφορές

1. Alfredsen G., Flaete P. and H. Militz (2013). Decay resistance of acetic anhydride modified wood: A review. *International Wood Products Journal 4(3): 137-143.*

2. Estokova A., Harbulakova O., Luptakova A. and N. Stevulova (2014). Performance of fiber cement boards in biogenic sulphate environment. *Advanced Materials Research 897: 41-44.*

<u>Για την εργασία μου με τίτλο: Durability of pine wood modified with a series of linear chain carboxylic acid anhydrides against soft rot fungi. Wood Research 56(2):147-156. 4 βιβλιογραφικές αναφορές</u>

1. Alfredsen G., Flaete P. and H. Militz (2013). Decay resistance of acetic anhydride modified wood: A review. *International Wood Products Journal 4(3): 137-143.*

2. Adebawo F., Naithani V., and O. Ogunsanwo (2016). Morphological and intergacial properties of chemically modified tropical hardwood. *RCS Advances 6(8):6571-6576.*

3. Kaldum C., Softje M., Namyslo J. and D. Kaufmann. Chemical improvement of surfaces. Part 5: surfactants as structural lead for wood hydrophobisation-covalent modification with p-alkylated benzoates. *Holzforschung*.

4. Adebawo, F., Sadeghifar, H., Tilotta, D., Jameel, H., Liu, Y. and L. Lucia (2019). Spectroscopic Interrogation of the Acetylation Selectivity of Hardwood Biopolymers. *Starch – 1900086.*

Για την εργασία μου με τίτλο: The effect of wood defects on chemical modification with acetic anhyderide. European Journal of Wood and Wood Products 62:395-396 1 βιβλιογραφική αναφορά

1. Sadeghifar H., Dickerson J.P. and D. Argyropoulos (2014). Quantitative P NMR analysis of solid wood offers an insight into the acetylation of its components. *Carbohydrate Polymers 113:552-560.*

Για την εργασία μου με τίτλο: Soprtion behaviour of water vapour of wood treated by chitosan polymer. European Journal of Wood and Wood Products 62:1-9 3 βιβλιογραφικές αναφορές

1. Broda, M. (2020). Natural compounds for wood protection against fungi – A review. *Molecules 25, 3538.*
2. Uyup, M., Sahari, S., Jahaludin, Z. and A. Yusof (2021). Water vapour sorption behavior and physicomechanical properties of methyl methacrylate (MMA) and MMA-styrene modified batai wood. *Holzforschung*
3. de Farias, D.T. and R.R. de Melo (2020). Propriedades fisicas da madeira de cinco especies nativas da Caatinga. *Adv. For. Sci. Cuiaba 7(3):1147-1152.*

Για την εργασία μου με τίτλο: Wood-straw composites bonded with various UF:EMDI formulations. The effect of fortification level. Journal of the Indian Academy of Wood science 7:54-57 2 βιβλιογραφικές αναφορές

1. Lightweight composites reinforced by africultural by products. *ACS Symposium Series, 1175:210-238.*

2. Luo P., Yang C., Li M. and Y. Wang (2020). Manufacture of thin rice straw particleboards bonded with various polymeric methanel diphenyl diisocyante /urea formaldehyde resin mixtures. BioResources 15(1):935-944.

Για την εργασία μου με τίτλο: Sorption studies of chemically modified elm wood with acetic or maleic anhydride.. Journal of the Indian Academy of Wood science 8:32-36 2 βιβλιογραφικές αναφορές

1. Zelinka S.L., Glass S. and E.E. Thybring (2018). Myth versus reality: Do parabolic sorption isotherm models reflect actual wood-water thermodynamics? *Wood Science and Technology 6:1701-1706.*

2. Uyup, M., Sahari, S., Jahaludin, Z. and A. Yusof (2021). Water vapour sorption behavior and physicomechanical properties of methyl methacrylate (MMA) and MMA-styrene modified batai wood. *Holzforschung*

Για την εργασία μου με τίτλο: Natural durability of acetylated OSB in ground stake test: total decay after 102 months of testing . European Journal of Wood and Wood Products 69:499-500 3 βιβλιογραφικές αναφορές

1. Lee W., Hong S. and h. Kang (2015). Investigation on the physical properties of acetylated domestic softwoods. *J. Korean Wood Science and Technology 43(4):429-437.*

2. Bavaneghi F. and M. Ghorbani (2016). Mechanical behavior and springback of acetylated particleboard made in different press times. *Wood Material Science and Engineering 11(1):57-61.*

3. Ghordani M. and F. Bavaneghi (2016). Effect of press cycle time on application behavior of board made from chemically modified particles. *Drvna Industrija 67(1):25-31.*

Για την εργασία μου με τίτλο: Vapour sorption studies of Belmadur wood. Advances in Forestry Letters 1:1-6 5 βιβλιογραφικές αναφορές

1. Garcia C.S. (2015). Determinatiom de la higroscopidad y comportamiento thermodinamico de la Madera juvenile y madura a traves de sus isothermas de sorcion. *Tesis Doctoral, Universidad Politecnika de Madrid, Spain.*

2. Williems W. (2015). A critical review of the multilayer sorption models and comparison with the sorption site occupancy model for wood moisture sorption isotherm analysis. *Holzforschung 69(1):67-75.*

3. Sanderg D., Kutnar A. and G. Mantanis (2017). Wood modification technologies a review. *I Forest – Biogeosciences and Forestry 10:895-908.*

4. Willems W. (2018). Hygroscopic wood moisture: single and dimerized water molecules at hydroxyl pair sites? *Wood Science and Technology52:777-791.*

5. Mottonen V. and H. Boren (2018). Menetelmat ja tutkimuksen tila. *Luonnonvarakeskus*, Helsinki.

Για την εργασία μου με τίτλο: Social trends of the people of the region of the Eastern Macedonia and Thrace about the potential of using biofuels from forest products residues . Environmentalist 29:333-335. 1 βιβλιογραφική αναφορά

1. Feng L. and W. Mei (2011). Research on return logistics of waste resource timber forest products in human province. *Logistics Engineering and Management 2:33-38.*

Για την εργασία μου με τίτλο: Noise emission levels in Greek wood and furniture processing industry. Journal of the Institute of Wood Science 17(2): 99-103. 7 βιβλιογραφικές αναφορές

1. Delo M. (2016). Comparison of noise level in micro, small and middle enterprise company with circular saw activity. *M.Sc Thesis, Univerza V. Ljubljani.*

2. Votsi N.P. Kallimanis A.S. and I.D. Pantis (2017). An environmental index of noise and light pollution at EU by spatial correlation of quiet and unlit areas. *Environmental Pollution 221:459-469.*

3. Kadirogullari K. (2016). Madenlerin yer ustu tesiilerindeki gurultu maruziyetiniin degerlendirilmesi. *M.Sc Thesis*, University of Ankara, Turkey.

4. Votsi, N.P. Kallimanis, A.S. and I.D. Pantis (2017). The distribution and importance of quiet areas in EU. *Applied Acoustis 127:207-214.*

5. Durcan F. and E. Burdurlu (2018). Effects of some machining parameters on noise level in planning of some wood materials. *BioResources 13(2):2702-2714.*

6. Ulker O. (2018). Investigation of noise exposure at furniture production and analyzing noise levels. *International Journal of engineering Research and Development 10(2):237-243.*

7. Omoniyi, T and J. Fatoki (2018). Assessment of noise emission levels in a selected wood processing laboratory. *6th International Conference on Capacity Building fir National Sustainable Development. Multimedia University, Kenya, pp:500-504.*

Για την εργασία μου με τίτλο: Experimental particleboard made from wood-bark mixtures abd bonded with EMDI resin. Journal of the Institute of Wood Science 17(4): 223-224. 2 βιβλιογραφικές αναφορές

1. Saxpa X.C. (2017). *M.Sc Thesis.*

2. Tudor E., Zwickl C. and M. Barbu (2020). Performance of softwood bark comminution technologies for determination of targeted particle size in further upcycling applications. *Journal of Cleaner Production.*

Για την εργασία μου με τίτλο: Nanomaterials and chemical modifications for enhanced key wood properties. Nanomaterials 9, 607. 13 βιβλιογραφικές αναφορές

1. Panek M., Hysek S. and P. Sedivka (2019). Durability of the exterior transparent coatings of nano-photostablised English oak wood and possibility of its prediction before artificial accelerated weathering. *Nanomaterials, 9, 1568.*

2. Giraldo A.V. (2019). La Madera como un Nuevo material sostenible. *Revista Colombiana de Materiales 14:1-16.*

3. Schorr, D. and P. Blancet (2020). Improvement of white spruce wood dimensional stability by organosilanes sol-gel impregnation and heat treatment. *Materials 13, 973, doi:10.3390/ma13040973.*

4. Hu, X., Sun, Z., Zhu, X. and Z. Sun (2020). Montmorillonite-synergized water based intumescent flame retardant coating for plywwod. *Coatings 10, 109.*

5. Zhou, l. and Y. Fu (2020). Flame-retardantxood composites based on immobilizing with chitosan/sodium phytate/nano-TiO2-ZnO coatings via layer-by-layer self-assembly. *Nanomaterials 10, 296.*

6. David, M., Ion R., Grigorescu R., Iancu L. and E. Andrei (2020). Nanomaterilas used in conservation and restoration of cultural heritage: An up to date review. *Materials 13: 2064.*

7. Esmailpour A., Taghirari H., Ghorbanali M. and G. Mantanis (2020). Improving fire retardancy of medium density fiberboard by nanowollastonite. *Fire and Materilas 1-8.*

8. Gaitan-Alvarez, J., Berrocal, A., Mantanis, G., Moya, R. and F. Araya (2020). Acetylation of tropical hardwood species from forest plantations in Costa Rica: an FTIR spectroscopioc analysis. *Journal of Wood Science 66:49.*

9. Xu, E., Zhang, Y. and L. Lin (2020). Improvement of mechanical, hygroscopicity and thermal properties of Chinese fir wood by impregnation of nano silica sol. *Polymers 12, 1632.*

10. Lee, S., Tahir, P. and U. Abdulaj (2020). A review on citric acid as green modifying agent and binder for wood. Polymers *12, 1692.*

11. Esmailpour, A., Taghiyari, H., Majidi, R., Babaali, S., Morrell, J. and B. Mohammadpanah (2020). Effects of adsorption energy on air and liquid permeability of nano-wollastonite treated medium density fiberboard. *IEE Transactions on Instrumental and Measurement*

12. Holy, S., Temiz, A., Demirel, G., Aslan, m., M.H.M. Amini (2020). Physical properties, thermal and fungi resistance of Scots pine wood treated with nano-clay and several metal oxides nanoparticles. *Wood Material Science and Engineering, doi10.1080\17480272.2020.1836023.*

13. Liu, M., Lyu, S., Peng, L., Lyo, J. and Z. Huang (2020). Radiata pine fretboard material of string instruments treated with furfuryl alcohol followed by tung oil. *Holzforschung*

Για την εργασία μου με τίτλο: Innovative wood surface treatments based on nanotechnology Coatings 9, 866. 5 βιβλιογραφικές αναφορές

1. Hu, X., Sun, Z., Zhu, X. and Z. Sun (2020). Montmorillonite-synergized water based intumescent flame retardant coating for plywwod. *Coatings 10, 109.*

2. Zhou, l. and Y. Fu (2020). Flame-retardantxood composites based on immobilizing with chitosan/sodium phytate/nano-TiO2-ZnO coatings via layer-by-layer self-assembly. *Nanomaterials 10, 296.*

3. Pepin, S., Blanchet, P. and V. Landry (2020). Interactions between a Buffered amine oxide impregnation carrier and an acrylic resin, and their relationship with moisture. *Coatings 10, 366; doi:10.3390/coatings10040366.*

4. Xu, E., Zhang, Y. and L. Lin (2020). Improvement of mechanical, hygroscopicity and thermal properties of Chinese fir wood by impregnation of nano silica sol. *Polymers 12, 1632*.

5. Gonçalves, D. and F.A.R. Lahr (2020). Deterioro y preservación de maderas mediante el uso de preservadores naturales de potencial interés en Brasil. *Bosque 41(3):213-220*.

Για την εργασία μου με τίτλο: Physical and mechanical properties of thermally modified beech wood impregnated with silver nano-suspension and their relationship with the crystallinity of cellulose. Polymers 11, 1538. 4 βιβλιογραφικές αναφορές

1. Schorr, D. and P. Blancet (2020). Improvement of white spruce wood dimensional stability by organosilanes sol-gel impregnation and heat treatment. *Materials 13, 973, doi:10.3390/ma13040973*.

2. Nypelo N., Berke, B., Spirk, S. and J.A. Sirvio (2020). Periodate oxidation of wood polysaccharides-Modulation of hierarchies. *Carbohydrate Polymers 252:117105*.

3. Nazerian, M., Shirzaii, S.; Gargarii, R.M., Vatankhaha, E. (2020). Evaluation of mechanical and flame retardant properties of medium density fiberboard using artificial neural network. *Cerne 26(2):279-292*.

4. Gul, W., Alrobei, H., Shah S.R.A. and A. Khan (2020). Effect of iron oxide nanoparticles on the physical properties of medium density fiberboard. *Polymers 12, 2911*.

<u>Για την εργασία μου με τίτλο: Improving fire retardancy of beech wood by graphene. Polymers 12, 303. 1 βιβλιογραφική αναφορά</u>

1. Rabajcyzk, A.,Zielencka, M. and D. Matoziep (2020). Hazards resulting from the burning wood impregnated with selected chemical compounds. Applied Sciences 10:6093.

<u>Για την εργασία μου με τίτλο: Fluid flow in cotton textile: Effects of wollastonite nanosuspension and Aspergillus niger fungus. Processess 7, 901. 4 βιβλιογραφικές αναφορές</u>

1. Taghiyari H., Esmailpour A., Adamopoulos S., Zereshki K. and R. Hosseinpourpia (2020). Shear strength of heat treated solod wood bonded with polyvinyl acetate reinforced by nanowollastonite. *Wood Research 65(2): 183-194.*

2. Esmailpour A., Taghirari H., Ghorbanali M. and G. Mantanis (2020). Improving fire retardancy of medium density fiberboard by nanowollastonite. *Fire and Materilas 1-8.*

3. Kacikova, D., Kubonsky, I., Ubricova, N. and F. Kacik (2020). The impact of thermal treatment on structural changes of teak and iroko wood lignins. *Applied Sciences 10, 5021.*

4. Esmailpour, A., Taghiyari, H., Majidi, R., Babaali, S., Morrell, J. and B. Mohammadpanah (2020). Effects of adsorption energy on air and liquid permeability of nano-wollastonite treated medium density fiberboard. *IEE Transactions on Instrumental and Measurement*

Για την εργασία μου με τίτλο: Mechanical and physical properties of oriented strand lumber (OSL): the effect of fortification level of nanowollastonite. Polymers 11, 1884. 1 βιβλιογραφικές αναφορές

1. Esmailpour A., Taghirari H., Ghorbanali M. and G. Mantanis (2020). Improving fire retardancy of medium density fiberboard by nanowollastonite. *Fire and Materilas 1-8.*

Για την εργασία μου με τίτλο: Paint pull off strength and permeability in nanosilver-impregnated and heat treated beech wood. Coatings 9, 723. 1 βιβλιογραφικές αναφορές

1. Esmailpour A., Taghirari H., Ghorbanali M. and G. Mantanis (2020). Improving fire retardancy of medium density fiberboard by nanowollastonite. *Fire and Materilas 1-8.*

Για την εργασία μου με τίτλο: Engineering composites made from wood and chicken feather bonded with UF resin fortified with wollastonite: a novel approach. Polymers 12, 857. 3 βιβλιογραφικές αναφορές

1. Esmailpour A., Taghirari H., Ghorbanali M. and G. Mantanis (2020). Improving fire retardancy of medium density fiberboard by nanowollastonite. *Fire and Materilas 1-8.*

2. Esmailpour, A., Taghiyari, H., Majidi, R., Babaali, S., Morrell, J. and B. Mohammadpanah (2020). Effects of adsorption energy on air and liquid

permeability of nano-wollastonite treated medium density fiberboard. *IEE Transactions on Instrumental and Measurement*

3. Gul, W., Alrobei, H., Shah S.R.A. and A. Khan (2020). Effect of iron oxide nanoparticles on the physical properties of medium density fiberboard. *Polymers 12, 2911.*

Για την εργασία μου με τίτλο: Fluid flow in nanosilver impregnated heat treated beech wood in different mediums. Applied Sciences 910, 3390. 3 βιβλιογραφικές αναφορές

1. Esmailpour, A., Taghiyari, H., Majidi, R., Babaali, S., Morrell, J. and B. Mohammadpanah (2020). Effects of adsorption energy on air and liquid permeability of nano-wollastonite treated medium density fiberboard. *IEE Transactions on Instrumental and Measurement*

2. Gul, W., Alrobei, H., Shah S.R.A. and A. Khan (2020). Effect of iron oxide nanoparticles on the physical properties of medium density fiberboard. *Polymers 12, 2911.*

Για την εργασία μου με τίτλο: Potential use of wollastonite as a filler in UF resin based MDF. Polymers 12, 1435. 1 βιβλιογραφική αναφορά

1. Gul, W., Alrobei, H., Shah S.R.A. and A. Khan (2020). Effect of iron oxide nanoparticles on the physical properties of medium density fiberboard. *Polymers 12, 2911.*

Για την εργασία μου με τίτλο: Formaldehyde emission in micron-sized wollastonite treated plywood bonded with soya flour and urea formaldehyde resin. Applied Sciences 10, 6709. 1 βιβλιογραφική αναφορά

1. Gul, W., Alrobei, H., Shah S.R.A. and A. Khan (2020). Effect of iron oxide nanoparticles on the physical properties of medium density fiberboard. *Polymers 12, 2911.*

Για την εργασία μου με τίτλο: Lignocellulosic composites from acetylated sunflower stalks. Applied Sciences 9, 646. 3 βιβλιογραφικές αναφορές

1. Alzagameen A. and M. Schulze (2019). Low input crops as lignocellulosic feedstock for second generation biorefineries and the potential of chemometrics in biomass quality control. *Applied Sciences, 9, 2252.*

2. Gusovius H., Luhr C., Hoffmann T., Recenka R. and C. Idler (2019). An alternative to field retting: Fibrous materials based on wet preserved hemp for the manufacture of composites. *Agriculture, 9, 140.*

3. Dungani R., Karliati T., Hadiyane A. and J. Malik (2020). Using kraft black liquor on coconut wood through impregnation with vacumn pressure method. *Journal of the Indian Academy of Wood Science*

Για την εργασία μου με τίτλο: Wood composites and their polymer binders. Polymers, 12, 1115 6 βιβλιογραφικές αναφορές

1. Santos, J., Pereira, J., Paiva N. and L.H. de Carvalho (2020). Impact of condensation degree of melamine-formaldehyde resins on their curing behavior and on the final properties of high-pressure laminates. *Proceedings of the Institution of Mechanical Engineers Part C Journal of Mechanical Engineering Science*

2. Frihart, C., Chaffee, T. and J. Wescott (2020). Long term formaldehyde emission potential from UF and NAF bonded particlebords. *Polymers 12:1852.*

3. Liu, W., Fang, C., Chen, F. and X. Qiu (2020). Strong, reusable and self-healing lignin-containing polyurea adhesives. *Chemical Sustainable Chemistry 13:4691-4701.*

4. Santos, J., Pereira J. and L. de Carvalho (2020). Impact of condensation degree of melamine formaldehyde resins on their curing behaviour and on the final properties of high-pressure laminates. *Proccedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science.*

5. Antov, P., Jinkov, V., Savov, V., Simeonova, R. and N. Yavorov (2020). Structural applications of eco-friendly composites from recycled wood fibers bonded with magnesium lignosulfonate. *Applied Sciences 10, 7526.*

6. Ando, D. and K. Umemura (2020). Bond structures between wood components and citric acid in wood-based molding. *Polymers 13, 58.*

Για την εργασία μου με τίτλο: Heat treatment of pine wood: possible effects of impregnation with silver nanosuspensions. Forests, 11, 466 2 βιβλιογραφικές αναφορές

1. Gaitan-Alvarez, J., Berrocal, A., Mantanis, G., Moya, R. and F. Araya (2020). Acetylation of tropical hardwood species from forest plantations in Costa Rica: an FTIR spectroscopioc analysis. *Journal of Wood Science 66:49.*
2. Gul, W., Alrobei, H., Shah S.R.A. and A. Khan (2020). Effect of iron oxide nanoparticles on the physical properties of medium density fiberboard. *Polymers 12, 2911.*

Για την εργασία μου με τίτλο: Advances in Wood Composites. Polymers, 12, 48 2 βιβλιογραφικές αναφορές

1. Kacikova, D., Kubonsky, I., Ubricova, N. and F. Kacik (2020). The impact of thermal treatment on structural changes of teak and iroko wood lignins. *Applied Sciences 10, 5021.*
2. Lamm, M. and S. Ozcan (2020). Material extrusion additive manufacturing of wood and lignocellulosic filled composites. *Polymers 12:2115.*

Για την εργασία μου με τίτλο: Determination of key board properties based on cylindrical specimens. Journal of the Institute of Wood Science 17(3):146-147. 1 βιβλιογραφική αναφορά

1. Votsi N., Drakou E., Mazaris A., Kalimanis A. and J. Pantis (2012). Distance-based assessment of open country Quiet Areas in Greece. *Landscape and Urban Planning 104:279-288.*

Για την εργασία μου με τίτλο: Physical mechanical properties and durability against basidiomycetes of particleboards made from cement and Carpinus betulus wood particles. Wood Research 54(2):95-100. 1 βιβλιογραφική αναφορά

1. Brachmia, F.Z., Horvath, P. and T. Alpar (2020). Effect of pretreatments and additives on the improvement on wood cement composite: a review. *BioResources 15(3):*

Για την εργασία μου με τίτλο: Swelling, cell wall porosity and chemical modification of wood. *Ph.D Thesis.* 1 βιβλιογραφική αναφορά

1. Guo Y, Zhang M, Xiao Z, Chen H and Y Xie (2018). Vaporization heat of bound water in wood chemically modified *via* grafting and crosslinking patterns by DSC and NMR analysis. *Holzforshung 72:1043-1049.*

Για την εργασία μου με τίτλο: The effect of selected process variables on the mechanical and physical properties of particleboard . *M.Sc Thesis.* 1 βιβλιογραφική αναφορά

1. Salem M., Bohm M and R. Nasser (2017). Measuring the formaldehyde content from different types of OSB manufactured with different thickness and glued with different resins. *Drvna Industria 68(2):173-178.*

Για την εργασία μου με τίτλο: Μελέτη της αντοχής της κατά μήκος συγκόλλησης με δακτυλοειδής συνδέσεις (finger joint) ξυλείας οξιάς μικρών διαστάσεων για την παραγωγή επικολλητής ξυλείας. *Πρακτικά 1ου Πανελληνίου Περιβαλλοντικού Συνεδρίου.* Ορεστιάδα, σελ: 443-454.. 1 βιβλιογραφική αναφορά

1. Μπαρμπούτης Ι., Βασιλείου Β. και Σ. Καραστεργίου (2005). Αντοχή σε κάμψη της συγκολλημένης με δακτυλοειδής συνδέσεις (finger joint) και πολυβυνιλική κόλλα (PVAc) ξυλεία δρυός αριάς (*Quercus ilex* L.). *Πρακτικά 12ου Πανελληνίου Δασολογικού Συνεδρίου.* Δράμα, σελ: 347:356.

Β: Ετεροναφορές σε βιβλία

Για την εργασία μου με τίτλο: Dimensional stability and decay resistance against Coniophora puteana of Scots pine sapwood due to reaction with propionic anhydride. Journal of the Institute of Wood Science 16(4):211-214. 1 βιβλιογραφική αναφορά

1. Schmidt O (2006). *Wood and tree fungi: Biology, damage, protection and use.* Springer-Verlag Berlin Heidelberg.

Για την εργασία μου με τίτλο: A review of methods used to determine the size of the cell wall microvoids of wood. Journal of the Institute of Wood Science 15(6):337-345 4 βιβλιογραφικές αναφορές

1. Hill CAS (2006). *Wood modification: chemical, thermal and other processes*. John Wiley and Sons.

2. Rahman M.R., Hamdan S., Lai J.C.H. (2018). Preparation and characterizations of clay dispersed styrene-co-ethylene glycol dimethacrylane impregnated wood polymer nanocomposites, pp: 199-217. *In: Wood Polymer Nanocomposites. Engineering Materials. Springer, Cham.*

3. Hubert T. and S. Mahr (2016). Sol-gel in wood preservation. In: *Wood (sol-gel) composites for fire retardancy*. Pringer International Publishing, Switzerland, pp:1-59.

4. Huber T. And M.S. Mahr (2018). Sol-Gel Wood preservation. In: Handbook of Sol-Gel Science and Technology, pp:27952843. Springer International Publishing AG, part of Springer Nature 2018.

Για την εργασία μου με τίτλο: The pyridine catalysed acylation of sapwood and phenolic model compounds with carboxylic acid anhydrides. Determination of activation energies and entropy of activation. Holzforschung 56(2): 150-156 1 βιβλιογραφική αναφορά

1. Hill CAS (2006). *Wood modification: chemical, thermal and other processes*. John Wiley and Sons.

Για την εργασία μου με τίτλο: Chemical modification employed as a means of probing the cell wall micropore of pine sapwood. Wood Science and Technology 37(6):475-488 1 βιβλιογραφική αναφορά

1. Hill CAS (2006). *Wood modification: chemical, thermal and other processes*. John Wiley and Sons.

Για την εργασία μου με τίτλο: Decay resistance of cement bonded Oriented Strand Board. Bioresources 1(1): 62-66. 1 βιβλιογραφική αναφορά

1. Rahman M.R., Hamdan S., Lai J.C.H. (2018). Introduction to reinforcing potential of various clay and monomers dispersed wood polymer nanocomposites, pp: 1-36. *In: Wood Polymer Nanocomposites. Engineering Materials. Springer, Cham.*

Για την εργασία μου με τίτλο: Decay of Anhydride Modified Wood. Proceedings of the 1st European Conference on Wood Modification. Ghent, Belgium. Pp: 143-152 1 βιβλιογραφική αναφορά

1. Hill CAS (2006). *Wood modification: chemical, thermal and other processes*. John Wiley and Sons.

Για την εργασία μου με τίτλο: The sorption of water vapour by anhydride modified softwood. Wood Science and Technology 37(3-4):221-231 4 βιβλιογραφικές αναφορές

1. Hill CAS (2006). *Wood modification: chemical, thermal and other processes*. John Wiley and Sons**.**

2. Φιλίππου Ι. (2014). *Χημεία και Χημική Τεχνολογία Ξύλου*. Εκδόσεις Γιαχούδη. Θεσσαλονίκη.

3. Hubert T. and S. Mahr (2016). Sol-gel in wood preservation. In: *Wood (sol-gel) composites for fire retardancy*. Pringer International Publishing, Switzerland, pp:1-59.

4. Huber T. And M.S. Mahr (2018). Sol-Gel Wood preservation. In: Handbook of Sol-Gel Science and Technology, pp:27952843. Springer International Publishing AG, part of Springer Nature 2018.

Για την εργασία μου με τίτλο: The biological effectiveness of wood modified with linear chain carboxylic acid anhydrides against Coniophora puteana. Holz als Roh-und Werkstoff 60(5):329-332 5 βιβλιογραφικές αναφορές

1. Rowell, R.M. (2005). *Chemical modification of wood. Handbook of wood chemistry and wood composites*. Boca Raton, Fla.: CRC Press.

2. Hill CAS (2006). *Wood modification: chemical, thermal and other processes*. John Wiley and Sons**.**

3. Rowell R.M., Caldeira F. and J.K. Rowell (2010). *Sustainable development in the forest products industry*. Porto Edicoes Universidade Fernando Pessoa.

4. Φιλίππου Ι. (2014). *Χημεία και Χημική Τεχνολογία Ξύλου*. Εκδόσεις Γιαχούδη. Θεσσαλονίκη.

5. Rahman M.R., Hamdan S., Lai J.C.H. (2018). Sustainable application of various monomer clay dispersed wood polymer nanocomposites, pp: 295-314. *In: Wood Polymer Nanocomposites. Engineering Materials. Springer, Cham.*

Για την εργασία μου με τίτλο: Dimensional stability of OSB made from acetylated fir strands. Holz als Roh-und Werkstoff 60(2):84-87 2 βιβλιογραφικές αναφορές

1. Hill CAS (2006). *Wood modification: chemical, thermal and other processes.* John Wiley and Sons.

2. Paul W. and M. Ohlmeyer (2010). Thermally and chemically modified wood based panels. In: *Wood Based Panels: An introduction to specialists.* Brunel University Press, London Ub8 3PH England.

Για την εργασία μου με τίτλο:One layer Experimental Particleboard from Coconut Chips -(Cocos nucifera L.). Holz als Roh-und Werkstoff 60(6):394-396 2 βιβλιογραφικές αναφορές

1 Kues U. (2007). *Wood Production, Wood Technology and Biotechnological Impacts.* Universitatsverlag Gottingen. Umvelt Stiftung. ISBN 978-3-940344-11-3, pp:297-341.

2. Juliana A., Lee S., Paridah T., Ashaari Z. and W. Lum (2017). *Green Biocomposites. In: Development and characterization of wood and non-wood particle based green composites.* Pp: 181-198. Springer, Verlag.

<u>Για την εργασία μου με τίτλο: The potential for using flax (Linum usitatissimun) shiv as a lignocellulosic raw material for particleboard. Industrial Crops and Products 17(2):143-147 4 βιβλιογραφικές αναφορές</u>

1 Kues U. (2007). *Wood Production, Wood Technology and Biotechnological Impacts.* Universitatsverlag Gottingen. Umvelt Stiftung. ISBN 978-3-940344-11-3, pp:297-341.

2. Zaikov G.E. and A .Jimenez (2007). *Polymer and biopolymers analysis and characterization.* Nova Publishers.

3. Kalia S., Kaith B., Kaur I. and J. Njuguna (2013). Biofiber-Reinforces Thermoplastic Composites. In: *Polymer Composites, Biocomposites.* Wiley-VCH Herlag GmbH & Co KGaA

4. Juliana A., Lee S., Paridah T., Ashaari Z. and W. Lum (2017). *Green Biocomposites. In: Development and characterization of wood and non-wood particle based green composites.* Pp: 181-198. Springer, Verlag.

<u>Για την εργασία μου με τίτλο: Bamboo chips (Bambusa vulgaris) as an alternative lignocellulosic raw material for particleboard manufacture. Holz als Roh-und Werkstoff 62(1):36-39 1 βιβλιογραφική αναφορά</u>

1. Juliana A., Lee S., Paridah T., Ashaari Z. and W. Lum (2017). *Green Biocomposites. In: Development and characterization of wood and non-wood particle based green composites.* Pp: 181-198. Springer, Verlag.

<u>Για την εργασία μου με τίτλο: Isocyanate resins for particleboard: PMDI vs EMDI. Holz als Roh-und Werkstoff 60(2):81-83 2 βιβλιογραφικές αναφορές</u>

1 Carvalho L., Magalhaes F. and J.M. Ferra (2012). Formaldehyde: Chemistry, Applications and Role in Polymerisation. *In: Chapter 'Formaldehyde emissions from wood base panels:testing methods and industrial perspectives', pp:73-108.* Nova Sciences Publishers, Inc.

2. Nuryawan A. And E.M. Alamsyah (2018). A review of isocyanate wood adhesive: a case study in Indonesia. In: *Applied Adhesive Bonding in Science and Technology.* Edited by H. Ozer. Publisher: In Tech.

<u>Για την εργασία μου με τίτλο: The biological effectiveness of wood modified with linear chain carboxylic acid anhydrides against the subterranean termites Reticulitermes flavipes. Holz als Roh-und Werkstoff 66(4):249-252. 1 βιβλιογραφική αναφορά</u>

1 Al-Kayiem H.H., Brebbia C.A. and S.S. Zubir (2014). Energy and Sustainability V. *Volume 186 of Transactions on Ecology and the Environment.* Nova Sciences Publishers, Inc.

<u>Για την εργασία μου με τίτλο: Property comparisons and bonding efficiency of UF and PMDI bonded particleboards as affected by key process variables. Bioresources 1(2):201-208. 2 βιβλιογραφικές αναφορές</u>

1. Tagjiyari R., Karimi A., Tahir P. and A. Choo (2015). Effects of nanotechnology on fluid flow in agricultural and wood based composite materials. *In: Agricultural Biomass Based Potential Materials, pp: 73-89.* Nova Sciences Publishers, Inc.

2. Tagjiyari R., Norton J. and M. Tajvidi (2017). Effects of nanomaterials on different properties of wood composite materials. *In: Biobased Wood Adhesives: Preparation, Characterisation and Testing, pp: 310-339.* CRC Press/Taylor & Francis Group.

Για την εργασία μου με τίτλο: Observation on the performance of CCB and creosote treated fence posts after 18 years of exposure in Greece (2002). International Research Group on Wood Preservation. Cardiff, Wales, U.K. (Document No. IRG/WP 02-30288). 1 βιβλιογραφική αναφορά

1. Κακαράς Ι. (2009). *Τεχνολογία Ξύλου: Πρίση, Ξήρανση, Εμποτισμός, Καμπύλωση, Καπλαμάς.* Εκδόσεις ΙΩΝ.

Για την εργασία μου με τίτλο: Chemical modification of solid wood and wood raw materials for composites production with linear chain carboxylic acid anhydrides: a brief Review. Bioresources 5(1): 499-506. 3 βιβλιογραφικές αναφορές

1. Smidt E., Schwanninger M., Tinter J. and K. Bohm (2012). Ageing and deterioration of materials and environment-application of multivariate data analysis. Intech open science-open minds, http://dx.doi.org/10.5772/53984.

2. Φιλίππου Ι. (2014). *Χημεία και Χημική Τεχνολογία Ξύλου*. Εκδόσεις Γιαχούδη. Θεσσαλονίκη.

3. Teaca A.C. and R. Bodirlau (2016). Photochemical Behavior of wood based materials. In: *Photochemical Behavior of Multicomponent Polymeric-based Materials, pp: 90-107.* Eds Dan Rosu,Visakh P. M, Springer International Publishing A.G.

Για την εργασία μου με τίτλο: The effect of acetylation on bending strength of finger jointed beech wood . Holz als roh Und Werkstoff 66:309-310. 1 βιβλιογραφική αναφορά

1. Belgacerm N. and A. Pizzi (2016). Chemical modification of solid wood. In: *Lignocellulosics fibers and HandBook: Renewable Materials for today's Environment*. Scrivener Publishing LLC.

Για την εργασία μου με τίτλο: Reducing the thickness swelling of wood based panels by applying a nanotechnology compound European Journal of Wood and Wood Products 68(2):237-239. 1 βιβλιογραφική αναφορά

1. Φιλίππου Ι. (2014). *Χημεία και Χημική Τεχνολογία Ξύλου*. Εκδόσεις Γιαχούδη. Θεσσαλονίκη.

Για την εργασία μου με τίτλο: The sorption of water vapour of wood treated with a nanotechnology compound Wood Science and Technology 44:515-522. 5 βιβλιογραφικές αναφορές

1. Φιλίππου Ι. (2014). *Χημεία και Χημική Τεχνολογία Ξύλου*. Εκδόσεις Γιαχούδη. Θεσσαλονίκη.

2. Dighton J. (2016). Fungi in Ecosystem Processes. *Marcel Dekker, Inc. New York, Basel*

3. Tagjiyari R., Norton J. and M. Tajvidi (2017). Effects of nanomaterials on different properties of wood composite materials. *In: Biobased Wood Adhesives: Preparation, Characterisation and Testing, pp: 310-339.* CRC Press/Taylor & Francis Group.

4. Hubert T. and S. Mahr (2016). Sol-gel in wood preservation. In: *Wood (sol-gel) composites for fire retardancy*. Pringer International Publishing, Switzerland, pp:1-59.

5. Huber T. And M.S. Mahr (2018). Sol-Gel Wood preservation. In: Handbook of Sol-Gel Science and Technology, pp:27952843. Springer International Publishing AG, part of Springer Nature 2018.

Για την εργασία μου με τίτλο: The biological behaviours of pine wood chemically modified with linear chain carboxylic acid anhydrides against soft rot fungi. International Biodeterioration & Biodegradation 64(5):409-412 1 βιβλιογραφική αναφορά

1. Φιλίππου Ι. (2014). *Χημεία και Χημική Τεχνολογία Ξύλου*. Εκδόσεις Γιαχούδη. Θεσσαλονίκη.

Για την εργασία μου με τίτλο:Surface treatment technologies applied to wood surfaces. Furniture Design and Manufacturing (FDM) Asia – Solid wood and panel technology. May-June issue, pp: 36-39. 1 βιβλιογραφική αναφορά

1. Φιλίππου Ι. (2014). *Χημεία και Χημική Τεχνολογία Ξύλου*. Εκδόσεις Γιαχούδη. Θεσσαλονίκη.

Για την εργασία μου με τίτλο: Mechanical and physical properties of cement bonded OSB (2006). Holz als roh und werkstoff 64:517-518. 2 βιβλιογραφικές αναφορές

1. Kutnar A. and S.S. Muthu (2016). *Environmental Impacts of Traditional and Innovative Forest-based Bioproducts*. Springer , SGS Hong Kong Limited.

2. Mendes R., Vilela A., Farrapo C., Mendes S., Tonoli D. and L. Mendes (2017). Sustainable and nonconventional construction materials using inorganic bonded fiber composites. In: *Lignocellulosic residues in cement-bonded panels, pp:3-16. WP, WoodHead Publishing in Civil and Structural Engineering,* Elsevier.

Για την εργασία μου με τίτλο: Mechanical and physical properties of cement bonded OSB (2006). International Conference for Wood Resources and panel properties. Valencia, Spain. Pp:315-319. 1 βιβλιογραφική αναφορά

1. Kutnar A. and S.S. Muthu (2016). *Environmental Impacts of Traditional and Innovative Forest-based Bioproducts*. Springer , SGS Hong Kong Limited.

Για την εργασία μου με τίτλο: Dimensional stabilization and strength of particleboard by chemical modification with propionic anhydride. Holz als Roh-und Werkstoff 61: 142-144. 1 βιβλιογραφική αναφορά

1. Paul W. and M. Ohlmeyer (2010). Thermally and chemically modified wood based panels. In: *Wood Based Panels: An introduction to specialists*. Brunel University Press, London Ub8 3PH England.

Για την εργασία μου με τίτλο: Mold, decay and termite resistance of pine wood treated with zinc and copper based nanocompounds. International Biodeterioration & Biodegradation 90:140-144 3 βιβλιογραφικές αναφορές

1. Dighton J. (2016). *Fungi in Ecosystem Processes*. CRC Press, Taylor & Francis Group.
2. Reinprecht L. (2016) Chemical Protection of Wood. In: *Wood Deterioration, Protection and Maintenance*. John Wiley & Sons, Ltd, Oxford, UK. doi: 10.1002/9781119106500.ch5.
3. Tagjiyari R., Norton J. and M. Tajvidi (2017). Effects of nanomaterials on different properties of wood composite materials. *In: Biobased Wood*

Adhesives: Preparation, Characterisation and Testing, pp: 310-339. CRC Press/Taylor & Francis Group.

<u>Για την εργασία μου με τίτλο: Vapour sorption studies of Belmadur wood. Advances in Forestry Letters 1(1):1-6. 1 βιβλιογραφική αναφορά</u>

1. Φιλίππου Ι. (2014). *Χημεία και Χημική Τεχνολογία Ξύλου*. Εκδόσεις Γιαχούδη. Θεσσαλονίκη.

<u>Για την εργασία μου με τίτλο: Sorption of acetylated pine wood decayed by brown rot, white rot and soft rot: different fungi-different behaviours. Wood Science and Technology 46:919-926 1 βιβλιογραφική αναφορά</u>

1. Rais D. and S. Zibek (2017). *Advances in Biochemical Engineering/Biotechnology*. In Biotechnological and biochemical utilization of lignin, pp 1-50. Springer Berlin Heidelberg.

<u>Για την εργασία μου με τίτλο: Dimensional stability and decay resistance against Coniophora puteana of Scots pine sapwood due to reaction with propionic anhydride. Bulgarian Academy of Sciences, Forest Research Institute. Proceedings of Scientific papers. Sofia, Bulgaria. Pp: 269-274. 1 βιβλιογραφική αναφορά</u>

1. Φιλίππου Ι. (2014). *Χημεία και Χημική Τεχνολογία Ξύλου*. Εκδόσεις Γιαχούδη. Θεσσαλονίκη.

Για την εργασία μου με τίτλο: Moisture adsorption behaviour of two acetylated Greek hardwoods. Proceedings of the 2nd European Conference on Wood Modification. Gottingen, Germany pp: 155-158. 1 βιβλιογραφική αναφορά

1. Φιλίππου Ι. (2014). *Χημεία και Χημική Τεχνολογία Ξύλου*. Εκδόσεις Γιαχούδη. Θεσσαλονίκη.

Για την εργασία μου με τίτλο:Surface treatment technologies applied to wood surfaces. Improvement of properties of selected plant fibres through chemical modification with acetic anhydride. Proceedings of the 17th International Wood and Natural Fibre Composites Symposium. Kassel, Germany pp: P 49.. 1 βιβλιογραφική αναφορά

1. Φιλίππου Ι. (2014). *Χημεία και Χημική Τεχνολογία Ξύλου*. Εκδόσεις Γιαχούδη. Θεσσαλονίκη.

Για την εργασία μου με τίτλο: The effect of 18 years exposure on toughness of treated pine fence posts in Greece. *Proceedings of the 5th European Panel Products Symposium*. Llandudno, Wales, U.K. pp: 298-302. 1 βιβλιογραφική αναφορά

1. Κακαράς Ι. (2009). *Τεχνολογία Ξύλου: Πρίση, Ξήρανση, Εμποτισμός, Καμπύλωση, Καπλαμάς.* Εκδόσεις ΙΩΝ.

Για την εργασία μου με τίτλο: Θερμικά τροποποιημένη ξυλεία στην Ευρώπη: Υφιστάμενη κατάσταση-προοπτικές. *Πρακτικά 1ου Πανελληνίου Περιβαλλοντικού Συνεδρίου.* Ορεστιάδα, σελ: 418-424.. 1 βιβλιογραφική αναφορά

1. Κακαράς Ι. (2009). *Τεχνολογία Ξύλου: Πρίση, Ξήρανση, Εμποτισμός, Καμπύλωση, Καπλαμάς.* Εκδόσεις ΙΩΝ.

Για την εργασία μου με τίτλο: Υφιστάμενη κατάσταση και προοπτικές των επιχειρήσεων ξύλου-επίπλου στην περιοχή Τρικάλων- Καρδίτσας-Καλαμπάκας. Πρακτικά 1ου Πανελληνίου Περιβαλλοντικού Συνεδρίου. Ορεστιάδα, σελ: 729-739. 1 βιβλιογραφική αναφορά

1. Κακαράς Ι. (2009). *Τεχνολογία Ξύλου: Πρίση, Ξήρανση, Εμποτισμός, Καμπύλωση, Καπλαμάς.* Εκδόσεις ΙΩΝ.

17. ΑΞΙΟΛΟΓΗΤΗΣ –ΚΡΙΤΗΣ ΕΡΓΑΣΙΩΝ

(Αναλυτικά)

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό '**Holzforschung**'

1. *Swelling of larch wood in organic liquids (September 2007)*
2. *The reduction in the fibre saturation point of wood due to chemical modification using anhydride reagents: A reappraisal (January 2008)*
3. *Adsorption rate of wood during moisture sorption processes (February 2009)*
4. *The effects of temperature on the water vapour sorption kinetics behavior of wood determined using the parallel exponential kinetics model. Part I: Evaluation of activation energy, entropy and gibbs free energy of sorption (October 2010)*
5. *The effects of temperature on the water vapour sorption kinetics behavior of wood determined using the parallel exponential kinetics model. Part I: Interpetation using the Kelvin-Voigt viscoelastic model (October 2010)*
6. *Thermo-hydro-mechanical wood behavior and processing (August 2014)*
7. *Sutfactants as structural lead for wood hydrophobization-covalent modification with p-alkylated benzoates (August 2019)*
8. *In situ mineralization of calcium carbonate of tropical hardwood species from fast grown plantations in costa Rica (December 2019)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'<u>European Journal of wood and wood Products</u>'** (**<u>Holz als Roh-und Werkstoff'</u>**

1. *Manufacturing particleboards using hazelnut husk and European black pine wood mixture (August 2006)*
2. *The manufacture of particleboards using mixture of Reed (surface layer) and commercial species middle layer (Sepetmber 2009)*
3. *The manufacture of particleboards using mixture of Reed (surface layer) and commercial species middle layer (January 2010)*
4. *Analysis of water adsorption by wood using the Guggeheim-Andersen-de Boer equation (March 2011)*
5. *Effects of adhesive and nano-araffin content on the correlation between fluids flow with physical and mechanical properties in MDF (July 2013)*
6. *Modification of rubber, acacia and oil palm woods with linear chain carboxylic acid anhydrides-microstructure, ant swelling efficiency and mechanical properties (March 2015)*
7. *Imroving the physical and mechanical properties of particleboard made from Urea-glyoxal resin by addition of pMDI (February 2017)*
8. *Termite resistance of wood treated with nano metal fluorides (September 2019)*
9. *Investigation of the water vapor sorption behavior of bamboo fibers with different size (June 2020)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'<u>Wood Science and Technology</u>'**

1. *Reversivle volumetric changes of acetylated wood with after treatment (November 2004)*
2. *Fitting the multi-temperature sorption data – a simple method for the prediction of energetics of water sorption by wood (October 2007)*
3. *The manufacture of particleboards using mixture of Reed (surface layer) and commercial species (middle layer)(March 2009)*
4. *Influence of utilisation of bagasse in surface layer on bending strength of three layer of particleboard (Sepetmber 2009)*
5. *Dynamic vapour water sorption properties of wood treated with glutaraldehyde (October 2009)*
6. *Influence of utilisation of bagasse in surface layer on bending strength of three layer of particleboard (November 2009)*
7. *Effect of copper nanoparticles on permeability, physical and mechanical properties of particleboard (January 2012)*
8. *Evaluation of particulate zinc and copper as wood preservatives for termite control (October 2012)*
9. *Combined effect of acetylation and heat treatment on the lhysical, mechanical and biological properties of jacj pine (December 2015)*
10. *Surface modification of birch by peroxide bleaching (July 2016)*
11. *Dried wood cell wall nanopore configuration (July 2017)*
12. *Nano copper modified phenol formaldehyde resin improves the mechanical properties of Chinese fir cell walls (September 2020)*
13. *Potentials of silicate based formulations for wood protection-Part 1: Full depth impregnation-a review (November 2020)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Bioresource Technology'**
  1. *Evaluation of mechanical, physical properties and decay resistance of particleboard made from particles impregnated with Pinus brutia bark extract (May 2005)*
  2. *Some of the properties of one layer particleboard made from the litter of Scotch pine (July 2006)*
  3. *An Intergrated physical and biological model for anaerobic laggons (November 2010)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Wood Chemistry and Technology'**
  1. *Catalytic acetylation of Pinus radiata with limited supply of acetic anhydride using conventional and microwave heating (February 2011)*
  2. *ATR-FTIR spectroscopic analysis of heat treated wood degraded by rot fungi (August 2017)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Biobased Materials and Bioenergy'**
  1. *Using ofkraft black liquor on short cycle of coconut wood(Cocos nucifera)through impregnation method: Dimensional stability, mechanical and thermal properties (April 2020)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Industrial Crops and Products'**

1. *Woodwool cement board using mixture of eucalypt and poplar (February 2011)*
2. *Properties of three-layered particleboard made from wood of Athel (Tamarix aphylia) and pruning particles of Almond (Amygdalus communis) and Pistachio (Pistacia vera)*
3. *Correlation between acoustic and physical-mechanical properties of insulation boards made from sunflower stalk (May 2013)*
4. *Eco-friendly lubricant by partial hydrogenation of palm oil over Pd/Al2O3 catalyst (Jun 2014)*
5. *Identification and characterization of tetraploid and octapoid Jatropha curcas induced by colchicines (December 2014)*
6. *The effected of graded fibrous structure of bamboo on its water vapour sorption behavior (Aufust 2019)*
7. *Alternative lignocellulosic raw materials in particleboard production: A review (August 2021)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Numerical Heat Transfer – An International Journal of Computation and Methodology'**

1. *Finite element analysis of coupled non-linear heat and moisture transfer in wood (November 2005)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Current Analytical Chemistry'**

1. *Adsorption of trace selenium on nano-TiO2 from natural water samples (January 2015)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό ‘**Issues in Biological Sciences and Pharmaceutical Research’**

  1. *Terpenic alcohoils isolated from cistus ladaniferus essential oil inhibit the growth of staphylococcus aureeus by disturbing cellk division (January 2015)*
  2. *Lignin peroxidase: an enzyme from soil organism (October 2015)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό ‘**International Journal of Educational Policy Research and Review’**

  1. *Strategies for enhancing the utilization of information and communication technology based library resources in research (December 2014)*
  2. *A review of agricultural policies: a case study of Togo from independence to 2015 (May 2017)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό ‘**Biochemistry and Biotechnology Research’**

  1. *Acrylalamide formation in some Egyptian foods as affected by food processing conditions and pre-frying treatments (January 2015)*
  2. *Effect of millet malt hydrolysis on the yieldf ethanol from Dioscorea spp (September 2016)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό ‘**Arabian Journal of Chemistry’**

1. *Investigating the effect of applying waste lignocellulosic on properties of wood cement composite (March 2015)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό ‘**African Journal of Food Science and Technology**’

1. *Shelf quantity studies: modeling of the flow quality and lactic acid bacteria as parameters for monitoring shelf quantity of stirred yogurt using shlftime (June 2017)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Tropical Forest Science’**

1. *Decay resistance study of esterified and oligoesterified rubber wood (March 2004)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Forestry Studies in China’**

1. *Experimental determination and modeling of equilibrium moisture content from the sapwood of Mexican pine (December 2010)*
2. *Gypsum-bonded particleboard manufactured from agro-based materials (May 2012)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal Environmental Biology**

1. *Some technological propertiesof pine (Pinus nigra) and fir (Abies bornmulleriana) wood heat treated using the Thermowood Process (December 2009)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Thermochimica Acta ’</u>**

1. *Sorption behaviour of African tropical woods (August 2005)*
2. *Effect of enthalpy-entropy compensation during sorption of water vapour in tropical woods: the case of Bubinga (June 2007)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Journal of Materials: Design and Applications’</u>**

1. *Particleboard made from waste paper flakes treated with maleic anhydride (January 2009)*
2. *Analysis of structure and bending property og quasi-three dimensional fabric composite (November 2009)*
3. *Study of calcined halloysite caly as pozzolanic material and its potential use in mortars (June 2011)*
4. *Effects of leachning behavior of calcium ions on compression and durability of cement based materials with mineral admixtures (October 2011)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Scientific Research Essays ’</u>**

1. *Selected physico-mechanical properties of cement-bonded particleboard made from pine sawdust-coir combination (March 2008)*
2. *Efficiency evaluation of wood supplying plans (July 2011)*
3. *Effect of bark flour content on mechanical properties of wood plastic composites (August 2011)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘African Journal of Microbiology Research ’**

  1. *Colour removal of textile dyes by culture extracts obtained from white rot fungi (December 2008)*
  2. *Lithium chloride affects mycelia growth of white rot fungi (February 2014)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘African Journal of Engineering Research ’**

  1. *The potentials of waste to energy system in Nigeria: A study of pyrolysis conversion of wood residue to bio-oil in major cities of South-Western Nigeria (February 2013)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Petroleum Technology and Alternative Fuels ’**

  1. *Continuous ethanol production by Kluyveromyces sp IIPE453 immobilized on bagasse chips in packed bed reactor (November 2010)*
  2. *Effect of properties of Pongamia methyl ester on combustion and Box emissions of a diesel engine (November 2010).*
  3. *Biofuel: Boon or Bane (November 2010)*
  4. *Conversion of methanol to hydrocarbons on cobalt and lanthanum catalysts (January 2011)*
  5. *Production of biodiesel from non-edible plant oils havinh high FFA content (February 2011)*
  6. *Optimisation of biodiesel production from jatropha caucus oil in a batch reactor (April 2011)*

7. *Opportunity cost, convincing factor for using new economy (June 2011)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Agricultural Science and Technology ’**

1. *Bonding strength of hydrothermally modified beech wood (June 2010)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Agricultural Science and Food Technology ’**

1. *Mulberry as emerging potential opportunity for livestock feed development in N. Ethiopia (August 2015)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Advances in Research’**

1. *Hybrid particleboard from wood and non-wood particles: Physical and mechanical properties as a function of particle ratio (September 2014)*
2. *Properties of particleboard manufactured from commonly used bamboo wastes in Bangladesh (December 2014)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Industrial and Engineering Chemistry Research ’**

1. *Dimensional stability and dynamic Young’s modulus of tropical light hardwood chemically treated with MMA in combination with HMDIC crosslinker (December 2010)*

2. *The effect of hexamethylene diisocyanate cross-likner on the thermal stability and decay resistance properties of tropical wood polymer composites (WPC) (March 2011)*
3. *Design of water ueing networks of multiple contaminants with two internal water mains (September 2012)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Fire and Materials ’</u>**

1. *Processing of urea-formaldehyde based particleboard from hazelnut shell and improvement of its requirements (January 2009)*
2. *Processing of urea-formaldehyde based particleboard from hazelnut shell and improvement of its fire and water resistance (April 2009)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Journal of Composite Materials’</u>**

1. *Utilisation of waste of window joints for particleboard composite manufacturing (December 2009)*
2. *Utilisation of waste of window joints for particleboard composite manufacturing (January 2010)*
3. *Polypropylene based composites reinforced by tolune diisocyanate modified wood (September 2012)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Environmental Engineering and Management Journal’</u>**

1. *The use of waste materials for thermal insulation in buildings and environmental protection (June 2010)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Chemical science and Biomolecular Engineering ’</u>**

1. *Effective technique of tannery effluent purification (August 2019)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘BioResources’</u>**

1. *Roughness of esterified cotton wood (July 2010)*
2. *Enhanced properties and biological resistance of chemically modified Acacia ssp. (September 2010)*
3. *Preparation and characterization of wheat straw particleboards with composite adhesives (October 2010)*
4. *Effect of chemical modification of lufea cylindrical fibers on both the mechanical and hygrothermal behaviours of polyester/luffa composites (May 2011)*
5. *Physical and mechanical properties of acetylated paper (September 2012)*
6. *Characterisation of chemical wood modification with MUF pre-polymer on fast growing wood and the mechanism of modification (May 2013)*
7. *Effect of chemical modification with maleic, propionic and succinic anhydrides on some properties of wood flour filled HDPE composites (June 2014)*
8. *The effect of heat treatment on the varnished surfaces of wood materials for surface bonding strength (June 2015)*

9. *Effects of heat post treatment on dimensional stability and water absorption behaviours of densified fir and black poplars woods (December 2015)*
10. *Alkali modification of cotton stalks and its effect on properties of produced particleboards (May 2016)*
11. *Dimensional stability and mechanical properties of plantation poplar wood esterified using acetic anhydride (August 2016)*
12. *Improved dimensional stability of nano-SiO_2/wax modified ACQ treated southern pine (June 2017)*
13. *Effect of wax and dimethyl silicone oil pretreatment on wood hygroscopicity, chemical components abd dimensional stability (May 2018)*
14. *Is wollastonite capable of improving the properties of wood cement board composites? (December 2018)*
15. *A comparative study on the effects of linseed oil and shellac treatment on the hygroscopicity, dimensional stability and color changes of Chinese wood (August 2020)*
16. *Strength and dimensional stability of cement bonded reinforced with tomato stem particles and coconut husk dust (July 2020)*
17. *Resol prepolymers used for improving water resistance and formaldehyde emission of urea formaldehyde resin (January 2021)*
18. *Study on surface properties of modified poplar wood (July 2021)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Polymers’**

1. *Comparison of adhesive properties of polyurethane adhesive systems and wood plastic composites with different polymers after mechanical, chemical and physical surface treatment (February 2019)*
2. *Reinforcement of bonding strength and water resistance of soybeam meal based adhesive via construction of interactive network from biomass residues (April 2019)*
3. *Synthesis and properties of tung oil based unsaturated co-ester resins bearing steric hindrace (April 2019)*
4. *Enhancement of hydrophobic fractionatin of poplar using autohydrolysis and disk refining pretreatment:morphology and overall chemical characterization (March 2019)*
5. *Study on stability and stability mechanism os styrene-acrylic emulsion prepared using nanocellulose modified with long chain fatty acids (May 2019)*
6. *Four natural fibers dyed with natural products as affected by pancreatin enzyme and buffer used in textile conservation (June 2019)*
7. *Hydroxypropylsulfonation/caproylation of corn starch to enhance its adhesion to PLA fibers for PLA sizing (June 2019)*
8. *Thermoplastic dynamic vulcanizates with in situ synthesized segmented polyurethane matrix (September 2019)*
9. *Influence of single/collective use of curing agents on the curing behaviour and bond strength of soy-protein melamine urea-formaldehyde resin adhesives for plywood assemply (October 2019)*
10. *Synthesis and characterization of sucrose and ammonium dihydrogen phosphate adhesive for plywood (November 2019)*

11. *Surface modification of bamboo fibers to enhance the interfacial adhesion of epoxy resin based composites prepared by resin transfer molding (November 2019)*
12. *An eco-effective soyabeam meal based adhesive enhanced with diglycydil resorcinol ether (November 2019)*
13. *Synthesis amd application of a catioinic polyamine as a Yankee dryer coating agent for the tissue paper making process (December 2019)*
14. *Properties of injection molded biocomposites reinforced with wood particles of short rotation asen and willow (December 2019)*
15. *Study on the Properties of Transparent Bamboo Prepared by Epoxy Resin impregnation (March 2020)*
16. *Macroscopic polly Schiff base-coated bacteria cellulose with high adsorption performance (February 2020)*
17. *Lignin-carbohydrate complexes from coconut (Cocos nucifera) coir: fractionation, structural elucidation, and potential applications (April 2020)*
18. *Conversion of waste lignocellulosic biomass into high value materials (April 2020)*
19. *Biopolymer based hybrids as an effective admixtures for cement composites (April 2020)*
20. *Correlation between mechanical properties and processing conditions for a rubber-toughened Wood Polymer Composite (May 2020)*
21. *Rheological, mechanical and morphological characterization of fillers in the nautical field: the role of dispersing agents on composite materials (May 2020)*

22. *Influence of adding offcuts and trims with a recycling approach on the properties of high-density fibrous composites (May 2020)*
23. *Long term formaldehyde emission potential from UF and NAF bonded particleboards (June 2020)*
24. *Eco-conversion of two winery lignocellulosic wastes into fillers for biocomposites: Vine Shoots and Wine Pomaces (June 2020)*
25. *Cellulose boards derived from waste textiles for drug delivery (June 2020)*
26. *A review on citric acid as green modifying agent and binder for wood (July 2020)*
27. *Natural rubber latex reinforced with micro and nanofibrillated cellulose via Dunlop method (July 2020)*
28. *Degradation of mechanical properties of pine wood under symmetric axial cyclic loading parallel to grain (August 2020)*
29. *The effect of jackfruit skin powder and fiber bleaching treatment in PLA composites with incorporation of thymol (September 2020)*
30. *Flax/PP and flax/PLA thermoplastic composites: influence of fire retardants on the individual components (October 2020)*
31. *Mechanical characterization of nanocomposite joints based on biomedical grade polyethylene under cyclical loads (October 2020)*
32. *The impact of the addition of compatibilizers on PLA properties after extrusion process (October 2020)*
33. *Surface finishing of 3D-printed polymers with selscted coatings (November 2020)*
34. *Bond between wood components and citric acid in wood based molding (November 2020)*

35. *The impact of wood waste on properties of silicone based composites (December 2020)*
36. *An additive manufacturing method using large scale wood inspired by laminated object manufacturing and plywood technology (December 2020)*
37. *Potential of Brewer´s spent grain as a replacement of wood in pMDI, UF or MUF bonded particleboard (January 2021)*
38. *Sustainability assessment and techno economic analysis of thermally enhanced polymer tube for multi-effect distillation technology (January 2021)*
39. *Utilisation of birch bark as an eco-friendly filler in UF adhesives for plywood manufacturing (Janaury 2021)*
40. *An innovative treatment based on sodium citrate for improving the mechanical performance of flax fiber reinforced composites (January 2021)*
41. *Upgrading argan shell wastes in wood plastic composites with biobased polyethylene matrix and different compatibilizers (March 2021)*
42. *By-products from food industry as a promising alternative for the conventional fillers for wood-polymer composites (March 2021)*
43. *Water repellent Parylene-N coating of Beech Wood (March 2021)*
44. *Insights into the thermo-mechanical treatment of brewers' spent grain as a potential filler for wood-polymer composites (March 2021)*
45. *On the feasibility of a pMDI reduced production of wood fiber insulation boards by means of kraft lignin and ligneous canola hulls (March 2021)*

46. *Statistical approach to optimize crashworthiness of thermoplastic commingled composites (March 2021)*
47. *Water resistance and creep behaviour of heat treated Moso Bamboo determined by the strepped isostress methos (March 2021)*
48. *Mechanical performance and dimensional stability of bamboo fiber based composite (March 2021)*
49. *Improving the barrier properties of packaging paper by polyvinyl alcholo based polymer coating – effect of the base paper and nanoclay (April 2021)*
50. *Investigation of polymer biofilm formation on titanium-based anode surface in microbial fuel cells with poplar substrate (May 2021)*
51. *Water repellent characteristics of beech wood coated with Parylene-N (May 2021)*
52. *Elongational flow field processed ultrahigh molecular weight polyethylene/polypropylene alloys with distinct interlayer phase for enhanced tribological properties (May 2021)*
53. *Tertiary and Quaternary Recycling of Wastes Plastics and Tires from Automotive Industry (May 2021)*
54. *Antifungal activities on some wood and non-wood kraft handsheets treated with melia azedarch extract using SEM and KPLC Analysis (June 2021)*
55. *Durable modification of wood by benxoylation proof of covalent bond by solution state NMR and DOSY NMR quick test (June 2021)*
56. *Thermal, physical and mechanical properties of poly/kenaf core fibers composites reinforced with esterified lignin (June 2021)*

57. *Effect of fiber orientation on novel continuos 3D printing fiber reinforced composites (July 2021)*
58. *Predicting the tire treated age adopted on specific mechanical properties in the laboratory (July 2021)*
59. *Preparation and performance of thermochromic and self-repairing dual function paint film with lac resin micro-capsules and fluorine microcapsules (July 2021)*
60. *High strength and low cost biobased polyurethane foam composites enhanced by poplar wood powder liquefaction (August 2021)*
61. *SEM/EDS evaluation of the mineral deposition on a polymeric composite resin of a toothpaste containing biomimetic Zn-carbonate hydroxyapatite in oral environment: a randomized clinical trial (August 2021)*
62. *Optimization of electrochemical visualization of latent fingerprints with poly on brass surfaces (August 2021)*
63. *Radiation based crosslinking technique for enhanced thermal and mechanical properties of HDPE/EVA/PU Blends (August 2021)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Nanomaterials'**
  1. *Micro and nanofabrillated cellulose (MNFC) from pineapple stems and their application on polyvinyl acetate and urea formaldehyde wood adhesives (May 2019)*
  2. *Low-water-absorption, high-strength polyamide 6 composites blended with sustainable bamboo-based biochar (July 2020)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Catalysts'**

1. *Pyrolysis kinetics of hydrochars produced from brewers spent grains (July 2019)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Buildings'**

1. *Feasibility of cross laminated timber made with coconut wood for load bearing wall application (December 2020)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Coatings'**

1. *Montmorillonite synergized water based intumescent flame retardant coating for wood (January 2020)*
2. *Flame-Retardant Wood Composites Based On Immobilizing with ChitosanSodium PhytateNano-TiO2-ZnO coatings via Layer-by-Layer Self-assembly (February 2020)*
3. *Wettability of wood surface layer examined from chemical change perspective (February 2020)*
4. *Interactions between a buffered amine oxide impregnation carrier and an acrylic resin, and their relationship with moisture (March 2020)*
5. *Insight of weathering processes based on monitoring surface characteristic of tropical wood species (August 2020)*
6. *Study on topological characteristics of sandstone eD pore networks by Micro CT (October 2020)*
7. *Graphene oxide/Polyaniline nanocomposites used in anticorrosive coatings foe environmental protection (November 2020)*

8. *A method for accelerated natural weathering of wood subsurface and its multilevel characterization (January 2021)*
9. *Physical, optical and visual performance of coated cross laminated timber during natural and artificial weathering (January 2021)*
10. *Effect of calcium carbonate particle size on the scratch resistance of rapid alkyd-based wood coatings (March 2021)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'Materials'</u>**

1. *Some properties of strand board panels manufactured from Eastern Redcedar (June 2009)*
2. *Evaluation of compatibility between beetle-killed lodgepole pine wood with Portland cement (December 2010)*
3. *Characterisation and thermal stability of acetylated slicewood production by alkali catalysed esterification (March 2017)*
4. *Effect of expanded polystyrene content and press temperature on the properties of low density wood particlevoard (July 2019)*
5. *Variation of mechanical characteristics of polyurethane foam:effect of test method (August 2019)*
6. *Pine beams retrofitted with FRP and poplar planhs: mechanical behaviour (August 2019)*
7. *Improvement of white spruce wood dimensional stability by organosilanes sol-gel impregnation (February 2020)*
8. *R-Silsesquioxane Based Network Polymers by Fluoride Catalyzed Synthesis: An investigation of Cross-linker Structure and its Influence on Porosity (April 2020)*

9. *Polymer brushes via surface initiated electrochemically mediated ATPR: role of sacrificial initiator in polymerization of acrylates on silicon substrates (July 2020)*
10. *Environmental impact of the reclaimed sand addition to molding sand with furan and phenol formaldehyde resin-comparison (September 2020)*
11. *Evaluation of the Dimensional Stability of Black Poplar Wood Modified Thermally in Nitrogen Atmosphere (March 2021)*
12. *Effect of wood biomass ash storage on the properties of cement composites (March 2021)*
13. *Exploring the potential of cotton industry byproducts in the plastic composite sector:macro and micromechanics study of the flexural modulus (July 2021)*
14. *Multiscale analysis of mechanical properties of 3D orthogonal woven composites with randomly distributed voids (August 2021)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Molecules'**

1. *Steam explosion conditions influence the biogas yield of rice straw highly (August 2019)*
2. *Feasibility of barley straw fibers as reinforcement in fully biobased polyethylene composites: Macro and micro mechanics of the flexural strength (April 2020)*
3. *Ionic liquids as antifungal agents for wood preservation (August 2020)*

4. *Deconstruction of lignin: from enzymes to microorganisms to microbial communities(March 2021)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Applied Sciences’**

1. *Properties of fiberboard from Sesbania aculeate and Tumarix aphylla (September 2020)*
2. *Influence of the strand characteristics on the properties of oriented strand boards obtained from resinuous and broadleaved fast growing species (February 2021)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Forests’**

1. *Effect of weathering on surface functiona groups ofcharred Norwayspruce claddingpanels (December 2020)*
2. *Physical and mechanical properties of poplar clones abd non destructive testing of properties (January 2021)*
3. *Effect of thermal modification treatment on some physical and mechanical properties of pine specimes (January 2021)*
4. *Forest Products Laboratory: Acetylation of wood 1945-1996 (February 2021)*
5. *Effects of Grain Pattern on the Rolling Shear Properties of Wood (April 2021)*
6. *Availability and applicability of wood and crop residues for production of wood composites materials (April 2021)*

7. *Estimating the service life of timber structures concerning risk and influence of fungal decay-A review of existing theory and modeling approaches (April 2021)*
8. *Variation of chemical components in sapwood, transition zone and heartwood of Dalbergia odorifilera and its relationship with heartwood formation (April 2021)*
9. *Industrial heat treatment of wood: study of induced effects on ayous wood (May 2021)*
10. *Discoloration and subterranean termite resistance evaluation of furfurylated tropical wood species after one year outdoor exposure (May 2021)*
11. *Evaluation of discoloration and subterranean termite resistance of four furfurylated tropical wood species after one year outdoor exposure (June 2021)*
12. *The impact of post manufacture treatments on the surface characteristics important for finishing of OSB and particleboard (July 2021)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Sustainability’**

1. *Thermal technical analysis of lightweight timber based external wall structures with ventilated air gap (December 2020)*
2. *The influence of the configuration of two electrochemical reactors on the process of removing atrazine from water (April 2021)*
3. *Optimization of cellulases production by a novel endophytic fungus Penicillium oxalicum R4 isolated from Taxus cuspidate (April 2021)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Fungi'**
  1. *Fungal genomic resources for strain identification and diversity analysis of 100 fungal species (February 2021)*
  2. *Isolation and molecular characterization of the romaine lettuce phylloplane mycobiome (March 2021)*
  3. *Visible light driven Ag modified TiO2 thin films on bamboo material with antifungal memory activity (July 2021)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Water'**
  1. *Ecosystem services of large wood: mapping the research gap (August 2021)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Energies'**
  1. *Determination of the radiation exchange factor in the bundle of steel round bars (June 2021)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Forest Products Journal'**
  1. *Performance of OSB made with soy substituted resin in termite choice tests with southern yellow pine (February 2021)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Journal of Molecular Sciences'**
  1. *Thermo-responsive grafted polymer brushes: relationship between molecular architecture and underwater adherence (November 2019)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Renewable materials’**
    1. *Influence of thermal modification on selected properties of paulownia wood (October 2019)*
    2. *Investigation of the leach resistance of flame retardant for modified poplar wood (August 2021)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Maderas: Ciencia y Technologia’**
    1. *Lignocellulosic composites from Brazilian giant bamboo (Guadua magna). Part 2: Properties of cement-gypsum bonded particleboards (May 2011)*
    2. *Lab testing for P3 moisture resistant particleboards (May 2011)*
    3. *Thermal rectifation of Eucalyptus grandis wood: modification of calorimetric parameters (January 2012)*
    4. *Wood thermodegradation: experimental analysis and modeling of mass loss kinetics (March 2013)*
    5. *Effect of drying process on marupa wood colour (May 2013)*
    6. *Appling ukp cellulosic waste as reinforcement of cement bonded particleboard (January 2016)*
    7. *The effect of manufacturing properties on properties of MDI wheat straw particleboard (January 2018)*
    8. *Particleboard made from tobacco stalk wastes and industrial wood particles (February 2018)*

9. *Determination of the physical and mechanical properties of wood cement boards produced with Pinus spp and pozzolans wastes (August 2018)*
10. *Influence of fiber acetylation intensity on the rate of fungal destruction (November 2018)*
11. *Metodologia estadicica para characterizer la variabilidad de propiedades de tableros OSB (December 2020)*
12. *The comparative study of the estimated bending strength values of sandwich panel by ann and anfis (March 2021)*
13. *Orientaion dependent properties of selected soft and hardwoods of south Asian origin (July 2021)*
14. *Predictive expressions for withdrawal force capacity of various sizes of dowels from particleboard and medium density fiberboard (August 2021)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό '**African Journal of Plant Science'**

1. *Effect of extraction temperature in soxhlet apparatus on the physicomechanical properties of some seed oils (February 2011)*
2. *Micromorphological study of the genus Linum L. in Iran (a taxonomic review) (June 2012)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Metals, Materials and Minerals'**

1. *Wollastonite and talk reinforced polypropylene hybrid composites: Mechanical, morphological and thermal properties (December 2020)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'Wood Material Science and Engineering'</u>**

1. *The lamination influence on properties of agro-based particleboard (December 2011)*
2. *The lamination influence on properties of agro-based particleboard (June 2012)*
3. *Marine borers resistance of wood chemically modified (July 2013)*
4. *Influence of walnut shell as filler on mechanical and physical properties of MDF improved by nano SiO2 (August 2013)*
5. *Mechanical behavior of chemical modified particleboard with different press times (June 2014)*
6. *Corrosion of metal fasteners embedded in acetylated and untreated wood at different moisture contents (April 2018)*
7. *Water absorption, dimensional stability, thermal and decay resistance of Scotch pine wood treated with nano-clay and several metal-oxides nanoparticles (June 2020)*
8. *Quality evaluation of heat treated oak wood (July 2020)*
9. *Water absorptiom, dimensional stability, thermal and fungal resistance of scots pine treated with nano-clay and several metal oxide nanoparticles*
10. *Chemical changes and hygroscopic behaviour of saturated ammonia gas treated beech wood (March 2021)*
11. *Effects of thermal treatment and weathering in the resistance against termites of a fast growing pine wood (May 2021)*
12. *Physicomechanical behaviour of wood eco-composite material (July 2021)*

13. *Influence of mixing waste tobacco stalks and paper mulberry wood chips on the physicomechanical properties, formaldehyde emission and termite resistance of particleboard (July 2021)*
14. *Combined effect of impregnation and heat treatments on some strength properties of wood (July 2021)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Polymers and the Environment'**
  1. *Liquified tropical wood/polypropylene composites: preparation and physic-mechanical properties (March 2012)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Research Journal of Chemistry and Chemical Sciences'**

1. *The balance of chemical reactions using the checking and mathematical method: teaching model (January 2018)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Journal of Scientific Research and innovative Studies'**

1. *Presentation of the newly developed framework for effective implementation of building policies, laws and regulations developing sub-Sahara African countries (May 2019)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Journal of Entomology and Nematology'**

1. *Evaluation of selected botanical extracts against subterranean termite under laboratory and semi field conditions (May 2019)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Physical Science and Environmental Studies’**

1. *Livelihood contribution of non timber forest products in emirate State (May 2019)*
2. *A review on analysis of the various food items available commercially from bamboo shoot in India (June 2020)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of |Nanotechnology and Nanomedicine’**

1. *The novel application of chitosan nanoparticles for photodynamic therapy technique (May 2019)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Materials Express’**

1. *Preparation and properties of bamboo polymers composites enhanced by in situ polymerization of furfuryl alcohol (June 2019)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘International Journal of |Applied Microbiology and Biotechnology Research’**

1. *Isolation of petro-hydrocarbon degrading bacteria from garage soil (July 2019)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Current Journal of Applied Science and Technology’</u>**

1. *Estimative of modulus of elasticity in static bending of wood in structural dimensions as a function of longitudical vibration and density (January 2018)*
2. *Evaluation of the number of load cycles to determine some wood stiffness properties (July 2018)*

Diversity of endemic ectomycorrhizae of humid forests of south Camerron (July 2021)

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘CERNE’</u>**

1. *Comparison of response surface methodology and artificial neural networks towards efficient optimization of lexural properties of gypsum bonded fiberboards (January 2018)*
2. *Evaluation of mechanical and flame retardant properties of MDF manufacturing with artificial neural analysis (January 2020)*
3. *Factors affecting some properties on surface of thermowood material applied with water based varnishes modified with nanoparticles (March 2021)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Open Journal for Composite materilas’</u>**

    1. *Cement bonded particleboards with different types of natural fibers using carbon dioxide injection for increased initial bondings (November 2017)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Forestry Research’**
  1. *Decay threshold of acetylated rattan (Calamus manan) against soft rot decay (February 2012)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Horticulture and Forestry’**
  1. *Floristic composition and canopy structure of homogardens of Sao Luis city, Marahao State, Brasil (November 2009)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Petroleum and Gas Engineering ’**
  1. *Prediction of the enthalpy of vaporization according to the temperature far from the critical point by the group contribution method with interactions of pure hydrocarbons, simple mixtures and oil fractions (February 2011)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘African Journal of Agricultural Research ’**
  1. *A multiple criteria analysis of factors influencing particleboard and MDF: products market with respect to customer’s perspectives (March 2011)*
  2. *Study of the total phenolics and flavanoids content in ripened and unripened fruits of different variety (April 2011)*
  3. *A BOR structure to select IRAN particleboard and MDF (May 2011)*

4. *Comparison of essential and non essential amino acids in the single cell protein (SCP) of whitr rot fungi from wheat straw (May 2011)*
5. *Determination of silage qualities in different whole-plant silages among hybrid maize cultivations (August 2011)*
6. *Comparison of different algal species for the higher production of biodiesel (December 2012)*
7. *Identifying factors affecting optimal management of agricultural water (September 2013)*
8. *Recent advances in biomass and biogas development and perspectives: bringing together geographical and sociological imaginations (July 2013)*
9. *Biomechanical analysis of wood processing work in tropical forest regions, Midwest Brasil (August 2021)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'African Journal of Biotechnology '**

1. *Study on the harvesting and consumption of fuel wood and timber wood in rural area of district Tank, Pakistan (March 2011)*
2. *Noble silver nanoparticles synthesis and characterization of fig-leaf extract and its antimicrobial effect against clinical isolates from corneal ulcer (September 2014)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Waste and Biomass Valorization'**

1. *Impact of castor husk utilization ob physical and mechanical properties of particleboard (June 2016)*

2. *Influence of relative humidity and temperature on cultivation yield of pleurotous species (January 2017)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Scientific Research and Review'**

1. *Pesticide contaminations of some rivers in edostate and its ecotoxicological implications (December 2014)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Renewable Energy'**

1. *Moisture sorption characteristics of corn stover and big bluestem (September 2012)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Natural Fibers'**

1. *Evaluation of mechanical and flame retardant properties of MDF manufacturing with artificial neural analysis (January 2020)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Ecology and the Natural Environment '**

1. *Indigenous knowledge on fuel wood (charcoal or fire wood) plant species used by the local people in and around the semi-arid Awash national park Ethiuopia (September 2011)*
2. *Major nutrient cycling of two different tropical dry deciduous forest of West Bangal, India (December 2011)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'Insects'</u>**
  1. *Study to identify a termite-susceptible species of wood for inclusion as a reference in Indonesia Standardized laboratory testing (September 2009)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'Agricultural Science Research Journal '</u>**
  1. *Mechanical properties of roselle (Hibiscus sabdariffa L) seeds (October 2011)*
  2. *The challenges of farm credit accessibility by small scale farms: the experience of farmers in Gassol LGA, Taraba State, Nigeria (October 2011)*
  3. *Emerging agribusiness enterprises: the need for food safety policy in Nigeria (March 2014)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'Journal of Chemical Engineering and Materials Science '</u>**
  1. *Chemical resistance and tensile properties of bamboo and glass fibers reinforced epoxy hybrid composites (December 2011)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'International Research Journal of Microbiology '</u>**
  1. *Decolorization of Synthetic dyes by six white rot fungi, isolated from nature (December 2011)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Research in Environmental Science and Toxicology '**
  1. *Green energies development and environment (April 2012)*
  2. *Chemical speciation of some heavy metals in sediments in the vicinity of Alaska cement factory, Gombe, State Nigeria (August 2012)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Chemistry '**
  1. *Effect of calcareous cow horn and storage on the physicomechanical properties of cement bonded particleboards from groundnut hulls (September 2012)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Archeological Science Journal '**
  1. *Bioarcheological analysis of skeletal remains in burials Bronze Age from Aemenian Highland (August 2012)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Construction and Building Materials'**
  1. *Hybrid effect of aluminum powder and fly ash on properties of Equisetum fiber-cement composites (October 2012)*
  2. *Effect of a foaming agent and pozzolan on properties of high silica content fiber-cement composites (April 2014)*
  3. *Polyvinyl alcohol incorporated furfuryl alcohol impregnated wood with improved toughness and dimensional stability (December 2019)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'International Journal of Agricultural Economics and Extension'</u>**
   1. *The role of agriculture in Iran's economic development (October 2012)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'International Journal of Physical Sciences'</u>**
   1. *Combustion properties of rowan eood impregnated with various chemical methods (December 2012)*
   2. *Modification of some Albanian wood properties through chemical treatment (February 2013)*
   3. *Potential antitermitic effects of some common wood stain chemicals (February 2013)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'International Biodeterioration & Biodegradation'</u>**
   1. *Decay control in Araucaria Angustifolia usinh siloxanes synthesized by sol-gel process (December 2012)*
   2. *Decay resistance and dimensional stability of Araucaria angustifolia using siloxanes synthesized by sol-gel process (March 2013)*
   3. *Preliminary data on cellulose encoding genes in the xylophagous beetle, Hylotrupes bajulus (April 2013)*
   4. *Sawing yield in oak wood affected by insect damage (April 2013)*
   5. *Changes in the properties of oak wood as a result of remaining submerged in Baltic sea waters for 2 years (April 2013)*
   6. *Decay resistance and dimensional stability of Araucaria angustifolia using siloxanes synthesized by soil-gel process (April 2013)*

7. *White rot fungi decay resistance of Teak and Melina wood treated with acetic anhydride (August 2013)*
8. *Kinetis, equilibrium and thermodynamics studies of reactive blue 19 dye adsorption on coconut shell based activated carbon (January 2015)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Intercontinental Journal of Bio-Agricultural Science’**

1. *The influence of fiber surface treatment on the physicomechanical properties of groundnut shell flour-filled maleic acid anhydride compatibilised natural rubber/low density polyethylene blend (November 2012)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Herald Journal of Marketing and Business Management’**

1. *Coping with environmental challenges in the medium size town of aher o in Nyanza Province, Kenya (November 2012)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Academic Journal of Scientific Research’**

1. *Water parameters and biochemical composition of two fish species obtained from Azikwe River, Nigeria (December 2012)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Business and Economic Management’**

1. *Quantities strategic programming Matrix of QSPM for CRM Neka cement factory (December 2012)*
2. *Challenges facing the growth and development of SMMEs in south Africa: Policy implications (December 2012)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'NET Journal of Agricultural Science'**
  1. *Efficacy of plant derived pesticides in the control of myco-induced postharvest and storage rots of tubers and agricultural products: a review (November 2013)*
  2. *Farmers participation in savings and credit cooperative societies:mean per capita annual farm income and poverty reduction in Nigeria (June 2015)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Advancement in Scientific and Engineering Research/ASER'**
  1. *Modelling of the coupled mass and heat transfer during the tropoical woods drying coming from Camerron: The case of Ayous, Lotofa, Sapelle and Frake (November 2013)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Comprehnesive Research Journal of Agricultural Science'**
  1. *Isolation and identification of fungi associated with cashew leaf spot disease (October 2013)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Basic Research Journal of Agricultural Science and Review '**

1. *Quantification of peat derived fulvic acids by spectrophotometric method (January 2014)*
2. *Implication of Bakolori dam irrigation activities on its physical resources (September 2014)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Basic Research Journal of Engineering Innovation '**

1. *Expansion of non edible oil reetha seeds for development of surfactants and their utilization in pest control supervision (February 2014)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Cellulose Chemistry and Technology'**

1. *Maleic anhydride treatment of softwood – effect on wood structure and properties (February 2014)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Cellulose'**

1. *Beech impregnated with polystyrene-g-ricinoleic acid AGNPs for wood modification applications (August 2021)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Forest Science'**

1. *Strenght and dimensional stability of cement bonded wood waste-sand bricks (August 2021)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'Advancement in Science and Technology Research/ASTR'</u>**
    1. *Investigation of weathering effects on engineering properties of Supare granite gneiss (May 2014)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'International Journal of Food Research (IJFR)'</u>**
    1. *Quality assessment of palm oil on sale in Ibadan major markets, Oyo State Nigeria (April 2014)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>'Polymer and Polymers Composites'</u>**
    1. *Mechanical and fractographic characterization of jute composites using urethane modified polyester matrix (July 2014)*
    2. *Evaluation of unsaturated polyester-polyurethane network as matrix resin for jute composites (April 2018)*
    3. *Mechanical properties of jute fiberboard reinforced UP/PU hybrid network composites (November 2018)*
    4. *Development and characterization of novel castor oil based polyurethane composites containing wood sawdust and rubber tire powder (October 2019)*
    5. *Utilisation of different filler wires and their impact on the tensile properties of hot gas welded wood-plastic composites (November 2019)*
    6. Tensile Strength of Wood Polylactic Acid Composite: A Meta-Analysis (December 2019)

7. *Investigating the effect of number of recycling steps and injection moulding parameters on the warpage and shrinkage in the wood plastic with using RSM method (December 2020)*
8. *A study on the effect of nano-ZnO on hygroscopic characteristics of lignocellulosic material filled thermoplastic composites (May 2021)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Journal of Agricultural Policy and Research'**

1. *Effect of phosphorus fertilizer levels and time of application on cowpea development and yied (July 2014)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Issues in Business Management and Economics'**

1. *A marketing analysis on the production performance of emerald durian palace, tagum city, davao del north, Philippines (July 2014)*
2. *The relationship between demographic and physicological factors and bottled water buying behavior in Eretrea (June 2018)*

❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Merit Research Journal of Enironmental Science and Toxicology'**

1. *Preliminary chemical profile of Telfairia occidentalis hook seed shell (June 2014)*
2. *Seasonal calibration of the Hargreaves equation for estimating monthly reference evapotraspiration in a data sparse region (July 2014)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘NET Journal of Social Sciences’</u>**
    1. *The experience on the brink of death and the hereafter:the verdict(September 2014)*
    2. *Weak links in the chain:diagnosis of the faecal sludge management chain in Camerron (July 2017)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Physical Sciences Research International (PSRI)’</u>**
    1. *Iraqi technology for the production of panels furniture medium density from waste paper and rice husks (July 2014)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Merit Research Journal of Agricultural Science and Soil Sciences’</u>**
    1. *Investigation into edible and non-edible oil potentials of chestnut grown in Nigeria (December 2014)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Journal of Civil Engineering and Construction Technology’</u>**
    1. *Performance analysis of composite material based on porous ceramic preform (February 2015)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **<u>‘Journal of Nano and Biomaterials</u>**

1. *Effects od adding nano-clay in polyvinyl acetate and urea formaldehyde adhesives on tropical wood shear resistance (May 2015)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of the Indian Academy of Wood Science'**

1. *Flatwise compressive properties of oil palm core sandwich panel subjected to static compressive load (April 2015)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Journal of Ecology and Development Research'**

1. *Influence of sodium chloride on germination and zinc, copper, zinc-copper mixture on seeding performance of Dorke and Omankwa corn varieties (March 2016)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό '**Advances in Forestry Letters'**

1. *Colour changes of pine and fir wood treated with several titanium and zinc oxide based nanocompounds (January 2016)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό '**RCA Advances'**

1. *Morphological and interfacial properties of chemically modified tropical hardwood (October 2015)*

- ❖ Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Merit Research Journal of Medicine and Medical Sciences'**

1. *Contrast-enhanced EUS for differential diagnosis of pancreatic masses (March 2016)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Advances in Biology & Biotechnology'**
    1. *Properties of boards produced from poppy stalks (February 2016)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Medical and Biological Science Research'**
    1. *Rhamnolipids: a new application in seeds development (September 2015)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Journal of Public and Environmental Health'**
    1. *Prepare and characterization og hydrophobic cotton fiber for water/oil separation by electroless plating combined with chemical corrosion (September 2015)*
    2. *Suitability evaluation for forestry land us and ecological security in a mountain town in China (March 2018)*
    3. *Perception of the status of iko-esai community forest akampa (July 2018)*
    4. *Health effects of* Hevea brasiliensis *wood dust exposure among workers in a furniture factory (December 2018)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Research Journal of Agricultural and Food Sciences'**
    1. *Rural transformation by agriculture diversification and innovation approach (May 2016)*
    2. *Study of surfactants effect on pulp properties (October 2016)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Journal of Ecology and Ecosolution'**
    1. *Seed variability and germination of Gyrinus ledermanii (April 2016)*
    2. *Assessment of carbon dioxide and pH concentrations in water bodies adjourning fuelwood based burnt brick (May 2016)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Journal of Forestry and Wood Science'**

    1. Chemical Modification of Wood Cellulose Using Vinegar and Benzoic Acid against Termites Degradation (December 2018)

    2. Effects of laminate thickness on selected technical properties of glulam board of Bambusa vulgaris (February 2019)

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Excellent World Journal of Agricultural Science'**
    1. *Assessment of malt quality attrivutes of barley genotypes grown in Bekoji, holeta and ankober, Ethiopia (November 2016)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'British Journal of Applied Science & Technology'**
    1. *Geological study, physical and mechanical characterization of the quarry white marble incoming in the cement manufacturing (November 2016)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'i Forest '**
    1. *Testing common hornbeam acetylated with the Accoya method under industrial conditions (February 2017)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Issues in Scientific Research '**
    1. *GIS based multi-criteria analysis for urban greenspace development (June 2018)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Construction'**
    1. *Technical study on the production of blocks with composites of cement wooden wastes from pallets (July 2018)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'International Journal of Journalism and Mass Communication'**
    1. *Establishing internal communication channels preferred by the employees of public universities in western Kenya during unrest (August 2018)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'SN Applied Sciences'**
    1. *Converting briquettes of orange and banana peels into activated charcoals as sustainable carbon and fuel sources (March 2019)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Composite Science'**
    1. *Some properties of binderless particleboard made from steam pretreated oil palm patrticles (February 2019)*
    2. *A state of the art review for structural performance of polyurethane foam filled building composite panels (March 2019)*
    3. *Destructive testing of wood plastic composite (May 2019)*
    4. *Dielectric properties of wod polymer composites:effects of frequency, fiber nature, proportion and chemical compositions (May 2021)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Materilas Science Research and Reviwes'**
    1. *Physico-mechanical properties of cement bonded particleboard made from date palm fiber (January 2020)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **'Journal of Materilas Science Research and Reviwes'**
    1. *Physico-mechanical properties of cement bonded particleboard made from date palm fiber (January 2020)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Annals of Systems Biology’**

  1. *Damage model of turbine rotor based on DPLS (March 2021)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Frontiers in Chemistry’**

  1. *Sustainable wood nanotechnologies in the form of wood composites processed by monomer impregnation (March 2021)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Civil Engineering and Environmental Sciences’**

  1. *Landscape metrics to analyze the forest fragmentation of Chitteri Hills in Eastern Ghats, Tamil Nadu (February 2021)*
  2. *Landscape metrics to analyze the forest fragmentation of Chitteri Hills in Eastern Ghats, Tamil Nadu (March 2021)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Asian Journal of Agricultural Extension, Economics & Sociology’**

  1. *Factors affecting farmer’s decision to join Joint Forest Management programme in Jammu Division of Jammu and Kashmir (April 2021)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Journal of Scientific Research and Reports’**

  1. *Acceleration response analysis of steel-wood composite floor system under human-induced vibration (May 2021)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο διεθνές περιοδικό **‘Open Journal of Bioinformatics and Biostatistics**

    1. *Quantitative Structure-Activity Relationship (Qsar) Study of a Series of 2-Thioarylalkyl Benzimidazole Derivatives by the Density Functional Theory (DFT) (May 2021)*

- Αξιολογητής – κριτής εργασιών στο διεθνές συνέδριο **‘2014 Global Conference on Polymer and Composite Materials (PCM 2014)’**

- Αξιολογητής – κριτής εργασιών στο έγκριτο συνέδριο **‘International Conference on residuals science and environment (ICRSE 2016)’**

    1. *Mix ratio optimization of cemented coal gangue backfill based on the response surface method (April 2016)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο ελληνικό περιοδικό **‘Γεωτεχνικά Επιστημονικά Θέματα’**

    1. *Η πορεία καθιέρωσης Ελληνικής ορολογίας για τη μοριοπλάκα (Σεπτέμβριος 2004)*
    2. *Ελαφρές – μικρής πυκνότητας ξυλοπλάκες για την επιπλοποιία και οικοδομική (Ιανουάριος 2011)*

- Αξιολογητής – κριτής εργασιών στο έγκριτο ελληνικό **‘Δασολογικό Συνέδριο’**

    1. *Αξιολόγηση των χρηματοδοτικών εργαλείων από τις ελληνικές επιχειρήσεις ξύλου-επίπλου στην περίοδο της κρίσης (Ιούνιος 2013)*