



Δημοσιεύσεις σε έγκριτα διεθνή περιοδικά / Research works in referred journals

1. **Mantanis G.**, Lykidis C., Papadopoulos A.N. (2020). [Durability of Accoya wood in ground stake test after 10 years](#). *European Journal of Wood and Wood Products (submitted in)* (IF: 1.916)
2. Gaitán-Alvarez J., Berrocal A., **Mantanis G.**, Moya R., Araya F. (2020). [Acetylation of tropical hardwood species from forest plantations in Costa Rica – An FTIR spectroscopic analysis](#). *Journal of Wood Science (in press)* (IF: 1.563)
3. Antov P., **Mantanis G.**, Savov V. (2020). [Development of wood composites from recycled fibres bonded with magnesium lignosulfonate](#). *Forests*, 11(6): 613, DOI: 10.3390/f11060613 (IF: 2.116) (Google Scholar® citations: 0)
4. Antov P., Savov V., **Mantanis G.**, Neykov N. (2020). [Medium-density fibreboards bonded with phenol-formaldehyde resin and calcium lignosulfonate as an eco-friendly additive](#). *Wood Material Science and Engineering*, DOI: 10.1080/17480272.2020.1751279 (IF: 1.265) (Google Scholar® citations: 2)
5. Lin C., Karlsson O., **Mantanis G.**, Sandberg D. (2020). [Fire performance and leach resistance of pine wood impregnated with guanyl-urea phosphate/boric acid and a melamine-formaldehyde resin](#). *European Journal of Wood and Wood Products*, 78(1): 107-111 (IF: 1.916) (Google Scholar® citations: 1)
6. Esmailpour A., Taghiyari H.R., Ghorbanali M., **Mantanis G.** (2020). [Improving fire retardancy of medium density fibreboard by nano-wollastonite](#). *Fire and Materials*; 2020 1(8), DOI: 10.1002/fam.2855 (IF: 1.173) (Google Scholar® citations: 1)
7. **Mantanis G.**, Martinka J., Lykidis C., Ševčík L. (2019). [Technological properties and fire performance of medium density fibreboard \(MDF\) treated with selected polyphosphate-based fire retardants](#). *Wood Material Science and Engineering*, DOI: 10.1080/17480272.2019.1596159 (IF: 1.265) (Google Scholar® citations: 7)
8. **Mantanis G.**, Athanassiadou E., Barbu M., Wijnendaele, K. (2018). [Adhesive systems used in the European particleboard, MDF and OSB industries](#). *Wood Material Science and Engineering* 13 (2): 104-116 (IF: 1.265) (Google Scholar® citations: 56)
9. Lykidis C., de Troya T., Conde M., Galvan J., **Mantanis G.** (2018). [Termite resistance of beech wood treated with zinc oxide and zinc borate nanocompounds](#). *Wood Material Science and Engineering* 13 (1): 45-49 (IF: 1.265) (Google Scholar® citations: 5)
10. Sandberg D., Kutnar A., **Mantanis G.** (2017). [Wood modification technologies - a review](#). *iForest* 10: 895-908 (IF: 1.010) (Google Scholar® citations: 51)
11. **Mantanis G.** (2017). [Chemical modification of wood by acetylation or furfurylation – A review of the present scaled-up technologies](#). *BioResources* 12(2): 4478-4489 (IF: 1.398) (Google Scholar® citations: 39)
12. Doğu D., Yilgör N., **Mantanis G.**, Tuncer F.D. (2017). [Structural evaluation of a timber construction element originating from the Great Metéoron monastery in Greece](#). *BioResources* 12(2): 2433-2451 (IF: 1.398) (Google Scholar® citations: 2)
13. Lykidis C., Bak M., **Mantanis G.**, Németh, R. (2016). [Biological resistance of pine wood treated with nano-sized zinc oxide and zinc borate against brown-rot fungi](#). *European Journal of Wood and Wood Products* 74(6): 909-911 (IF: 1.08) (Google Scholar® citations: 14)
14. Sahin T., **Mantanis G.** (2016). [Colour changes of pine and fir wood treated with several titanium- and zinc- oxide based nanocompounds](#). *Advances in Forestry Letter* 5: 17-23 (Google Scholar® citations: 2)



15. **Mantanis G.**, Lykidis C. (2015). [Evaluation of weathering of furfurylated wood decks after a 3-year outdoor exposure in Greece](#). *Drvna Industrija* 66 (2): 115-122 (IF: 0.540) (Google Scholar® citations: 9)
16. **Mantanis G.**, Terzi E., Kartal S.N., Papadopoulos A. (2014). [Evaluation of mold, decay and termite resistance of pine wood treated with zinc- and copper- based nanocompounds](#). *International Biodeterioration and Biodegradation* 90: 140-144 (IF: 2.43) (Google Scholar® citations: 69)
17. Lykidis C., **Mantanis G.**, Adamopoulos S., Kalafata K., Arabatzis I. (2013). [Effects of nano-sized zinc oxide and zinc borate impregnation on brown-rot resistance of black pine \(*Pinus nigra* L.\) wood](#). *Wood Material Science and Engineering* 8(4): 242-244 (IF: 1.04) (Google Scholar® citations: 23)
18. Gortzi O., Metaxa X., **Mantanis G.**, Lalas, S. (2013). [Effect of artificial aging using eleven different wood chips on the antioxidant activity, resveratrol and catechin concentration, sensory properties and colour of two Greek red wines](#). *Food Chemistry* 141: 2887-2895 (IF: 4.052) (Google Scholar® citations: 32)
19. Skarvelis M., **Mantanis, G.** (2013). [Physical and mechanical properties of beech wood harvested in the Greek public forests](#). *Wood Research* 58(1): 1-7 (IF: 0.281) (Google Scholar® citations: 15)
20. Papadopoulos A.N., **Mantanis G.**, Katsinikas K., Michael M. (2013). [Formaldehyde in indoor air of new apartments in Drama, Greece](#). *Advances in Forestry Letter* 2(2): 9-13 (Google Scholar® citations: 0)
21. Papadopoulos A.N., **Mantanis, G.** (2012). [Vapour sorption studies of Belmadur wood](#). *Advances in Forestry Letter*, 1(1): 1-6 (Google Scholar® citations: 6)
22. Adamopoulos S., Gellerich A., **Mantanis G.**, Kalaitzi, T. and H. Militz (2012). [Resistance of *Pinus leucodermis* heartwood and sapwood against the brown rot fungus *Coniophora puteana*](#). *Wood Material Science & Engineering* 7(4): 242-244 (IF: 1.040) (Google Scholar® citations: 3)
23. Graikou K., Gortzi O., **Mantanis G.** and I. Chinou (2012). [Chemical composition and biological activity of the essential oil from the wood of *Pinus heldreichii* Christ. var. *leucodermis*](#). *European Journal of Wood and Wood Products* 70: 615-620 (IF: 1.081) (Google Scholar® citations: 12)
24. Sahin T., **Mantanis, G.** (2011). [Colour changes in wood surfaces modified by a nanoparticulate based treatment](#). *Wood Research*, 56(4): 525-532 (IF: 0.216) (Google Scholar® citations: 15)
25. **Mantanis G.**, Karastergiou S. and J. Barboutis (2011). [Finger jointing of green Black pine wood \(*Pinus nigra* L.\)](#). *European Journal of Wood & Wood Products* 69(1): 155-157 (IF: 1.081) (Google Scholar® citations: 9)
26. Sahin T., **Mantanis G.** (2011). [Nano-based surface treatment effects on swelling, water sorption and hardness of wood](#). *Maderas. Ciencia y tecnologia*, 13(1): 41-48 (IF: 0.722) (Google Scholar® citations: 9)
27. **Mantanis G.**, Adamopoulos S. and E. Rammou (2010). [Physical and mechanical properties of *Pinus leucodermis* wood](#). *Wood Material Science & Engineering*, 5(1): 50-52 (IF: 1.040) (Google Scholar® citations: 2)
28. **Mantanis G.** and A.N. Papadopoulos (2010). [Reducing the thickness swelling of wood based panels by applying a nanotechnology compound](#). *European Journal of Wood & Wood Products* 68: 237-239 (IF: 1.081) (Google Scholar® citations: 20)



29. **Mantanis G.** and A.N. Papadopoulos (2010). [The sorption of water vapour of wood treated with a nanotechnology compound](#). *Wood Science and Technology* 44(3): 515-522 (IF: 1.642) (Google Scholar® citations: 40)
30. **Mantanis G.** and D. Birbilis (2010). [Physical and mechanical properties of Athel wood \(*Tamarix aphylla*\)](#). Suleyman Demirel University, *Forestry Faculty Journal*, A(2): 82-87, (Google Scholar® citations: 8)
31. Karastergiou S., **Mantanis G.I.** and K. Skoularakos, 2008. [Green gluing of oak wood \(*Quercus conferta* L.\) with a one-component polyurethane adhesive](#). *Wood Material Science and Engineering* 3-4: 79-82 (IF: 1.040) (Google Scholar® citations: 11)

Παρουσιάσεις σε διεθνή επιστημονικά συνέδρια / Presentations in international conferences

1. Lin C., Karlsson O., **Mantanis G.**, Sandberg D. (2019). [Fire performance and leach resistance of pine wood impregnated with guanlyl-urea phosphate \(GUP\)/boric acid \(BA\) and melamine-formaldehyde \(MF\) resin](#). In: *Proc. of 15th Annual Meeting of Northern European Network*, Lund University, Sweden, pp. 147-149 (Google Scholar® citations: 0)
2. **Mantanis G.**, Jones D. (2012). [Innovative modification of wood with nanoparticulate treatment](#). In: *Proc. of the 6th European Conference on Wood Modification*, 16/18-09-2012, Ljubljana, Slovenia (Google Scholar® citations: 8)
3. Lykidis C., de Troya M., Conde M., Galván J., **Mantanis G.** (2016). [The termite resistance of wood impregnated with nano-zinc oxide and nano-zinc borate dispersions](#). In: *Proc. of 47th Annual Conference of the International Research Group on Wood Protection (IRG)*, 15-19 May 2016, Lisbon, Portugal (Google Scholar® citations: 0)

Κεφάλαια σε βιβλία / Chapters in books

1. Lin C., Karlsson O., **Mantanis G.I.**, Jones D., Sandberg D. (2020). [Fire retardancy and leaching resistance of pine wood impregnated with melamine formaldehyde resin in-situ with guanlyl-urea phosphate/boric acid](#). In: Makovicka Osvaldova L., Markert F., Zelinka S. (eds) *Wood & Fire Safety*. WFS 2020. Springer, Cham, pp. 83-89 (Google Scholar® citations: 0)
2. Taghiyari H.R., Tajvidi M., Taghiyari R., **Mantanis G.I.**, Esmailpour A., Hosseinpourpia R. (2020). [Nanotechnology for wood quality improvement and protection](#). Book Chapter 19 in *"Nanomaterials for Agriculture and Forestry Applications"*, Eds. A. Husen and M. Jawaid, doi.org/10.1016/B978-0-12-817852-2.00019-6, pp. 469-489 (Google Scholar® citations: 5)

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