

Prof. George I. Mantanis FIAWS, PhD



Professor

Wood science

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Research interests

Physical and chemical properties of solid wood and wood-based products; Chemical technology of wood (modification, protection processes, etc.); Technology of wood-based panels; Identification of wood

Brief CV

George I. Mantanis was born in Stipsi, Lesbos island, Greece. He finished with honours from High School of Kalloni (Lesbos) in 1984. He is a faculty member at the new Dept. of Forestry, Wood Sciences and Design, University of Thessaly (Lab of Wood Science and Technology), formerly being at TEI of Thessaly since 2002. He was member of the core group (under Prof. Em. I. Kakaras) that organised the WFDT department, which was the sole one in the Greek academia. He possesses a diploma in Forestry (Aristotle University, 1989) and a doctorate degree from University of Wisconsin-Madison in wood science (1994). He has worked at Forest Products Lab at Madison (1994), two years in Forest Research Institute of Thessaloniki (1996-1997), and four years in ACM Wood Chemicals Plc (today Chimar Hellas SA) at the R&D. He has served as chair in WFDT dept. for six years (2002-06 and 2012-14). The research work of Prof. Mantanis is primarily focused on the structure, properties, and chemical technology of wood and wood products, incorporating >60 publications in referred journal papers. He has more than 2,500 citations at *Google Scholar*[®]. Since 2017, he is a Co-Editor at referred journal *Wood Material Science and Engineering* (Taylor & Francis, IF: 2.732) and also a reviewer in several international referred journals. In 2021, he was elected a Fellow in the International Academy of Wood Science (IAWS). His CV is here: <http://mantanis.users.uth.gr/CV.pdf>

Selected research publications

1	Lykidis, C., Bak, M., Mantanis, G.I. (2023). Biological resistance of Phoenician juniper wood. <i>Wood Material Science and Engineering</i> (in press), DOI: 10.1080/17480272.2023.2221657
2	Lin, C.F., Myronycheva, O., Karlsson, O., Mantanis, G.I., Jones, D., Sandberg, D. (2023). A new wood-modification process based on <i>in situ</i> grafting of urethane groups: biological resistance and dimensional stability of carbamylated Scots pine wood. <i>Wood Material Science and Engineering</i> , DOI: https://doi.org/10.1080/17480272.2023.2207541
3	Lin, C.F., Karlsson, O., Das, O., Mensah, R.A., Mantanis, G.I., Jones, D., Antzutkin, O.N., Försth, M., Sandberg, D. (2023). High leach-resistant fire-retardant modified pine wood (<i>Pinus sylvestris</i> L.) by in-situ phosphorylation and carbamylation. <i>ACS Omega</i> , DOI: https://doi.org/10.1021/acsomega.3c00146
4	Gaitán-Alvarez J., Moya R., Mantanis, G.I., Berrocal, A. (2021). Furfurylation of tropical wood species with and without silver nanoparticles: Part I: Analysis with confocal laser scanning microscopy and FTIR spectroscopy. <i>Wood Material Science and Engineering</i> , DOI: https://doi.org/10.1080/17480272.2021.1886166
5	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. <i>Wood Material Science and Engineering</i> , DOI: 10.1080/17480272.2019.1596159
6	Mantanis G., Athanassiadou E., Barbu M., Wijnendaele, K. (2018). Adhesive systems used in the European particleboard, MDF and OSB industries. <i>Wood Material Science and Engineering</i> 13(2): 104-116
7	Sandberg D., Kutnar A., Mantanis G. (2017). Wood modification technologies - A review. <i>iForest</i> 10: 895-908
8	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. <i>International Biodeterioration and Biodegradation</i> 90: 140-144
9	Mantanis G.I., Young R.A. and R.M. Rowell (1994). Swelling of wood. Part II. Swelling in organic liquids. <i>Holzforschung</i> 48 (6): 480-490
10	Mantanis G.I., Young R.A. and R.M. Rowell (1994). Swelling of wood. Part I. Swelling in water. <i>Wood Science and Technology</i> 28: 119-134

Google Scholar[®]: <https://scholar.google.gr/citations?user=rFT6H-wAAAAJ&hl=en>

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