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Durability & Decay

List of Publications:

- D1. Winandy JE, Morrell JJ. 2017. Improving the utility, performance and durability of wood- and bio-based composites. *Annals of Forest Science*. 74(1):Article 25. 11pg. doi:10.1007/s13595-017-0625-2. <https://medcraveonline.com/FREIJ/FREIJ-02-00027.pdf>
- D2. Aro, M., Donahue, P., and Winandy, J. 2014. Thermal Modification: Current Developments in the U.S. and Canada. In: *Proceedings of the 8th European TMT Workshop*. Dresden, Germany. 147-158.
- D3. Kirker, G., Winandy, J. 2014. Chapter 6: Above ground deterioration of wood and wood-based materials. In: Schultz, T., Goodell, B., Nicholas, D. (Ed.). *Deterioration and Protection of Sustainable Biomaterials*. ACS Symposium Series, Vol. 1158. American Chemical Society Press. Wash.DC. p113-129
<https://global.oup.com/academic/product/deterioration-and-protection-of-sustainable-biomaterials-9780841230040?cc=us&lang=en&#>)
- D4. Winandy, J.E., Donahue, P. 2014. Development and use of AWP/ANSI Guidance Document N—Data requirements for listing thermally modified wood in AWP Standards. Proc. of 7th European Conference on Wood Modification. Held March 10-12, 2014 in Lisbon, Portugal. 8pg.
- D5. Curling, S., Winandy, J.E. 2008. Comparison of the effects of gamma irradiation and steam sterilization on southern pine sapwood. *Forest Products Journal* 58(1/2):87-90. (refereed). (http://www.fpl.fs.fed.us/documnts/pdf2008/fpl_2008_curling001.pdf)
- D6. Kamke, F.A., Winandy, J.E. 2008. Issues and concepts for making durable composites. Proc. American Wood Protection Association. Vol. 104. (In-Press). AWP Birmingham, AL. (http://www.fpl.fs.fed.us/documnts/pdf2008/fpl_2008_kamke001.pdf)
- D7. Winandy, Jerrold E.; Curling, Simon F.; Lebow, Patricia K. 2005. Controlling the moisture content of wood samples using the modified FPL soil-pan decay method. *Forest Products Journal* 55(6): 80-85.
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- D8. Curling, S.F., J. E. Winandy, C. Carll, J. A. Micales, A. Tenwolde. 2003. How variability in OSB mechanical properties affects biological durability testing. *Holzforschung* 57 (2003): 8-12 (refereed). <http://www.fpl.fs.fed.us/documnts/pdf2003/curli03a.pdf>
- D9. Smith, W. R., A. Rapp, J. E. Winandy. 2003. Resistance of heat-treated wood to Formosan subterranean termites. International Research Group on Wood Preservation, Document No. IRG/WP 03-40264. Stockholm, SWEDEN. <http://www.fpl.fs.fed.us/documnts/pdf2003/smith03a.pdf>
- D10. Curling, S.F., C.A. Clausen, J. E. Winandy. 2002. Relationship between mechanical properties, weight loss and chemical composition of wood during incipient brown rot decay of southern pine sapwood. *Forest Products Journal* 52(7/8):34-39. (refereed). <http://www.fpl.fs.fed.us/documnts/pdf2002/curli02b.pdf>
- D11. Curling, S.F., J. E. Winandy, C.A. Clausen. 2002. Experimental method to quantify progressive stages of decay of wood by basidiomycete fungi. *International Biodeterioration and Biodegradation* 49 (2002) 13-19. (refereed). <http://www.fpl.fs.fed.us/documnts/pdf2002/curli02a.pdf>
- D12. Morris, P.I., Winandy, J. E. 2002. Limiting conditions for decay in wood systems. International Research Group on Wood Preservation, Document No. IRG/WP 02-10421, Stockholm, SWEDEN. <http://www.fpl.fs.fed.us/documnts/pdf2002/morri02a.pdf>
- D13. Curling, S.F., J. E. Winandy, C. A. Clausen. 2001. Effect of hemicellulose degradation on mechanical properties during brown rot decay. International Research Group on Wood Preservation, Document No. IRG/WP 01-20219, Stockholm, SWEDEN. <http://www.fpl.fs.fed.us/documnts/pdf2001/curli01a.pdf>
- D14. Winandy, J. E., C. A. Clausen, Curling, S.F. 2001. Predicting the effects of decay on wood properties and modeling residual service-life. Proc. of 2nd annual conference on Durability and Disaster Mitigation in Wood-Frame Housing. Held Nov 6-8, 2000 in Madison, WI. Published by Forest Products society October 5, 2001. p.261-263. <http://www.fpl.fs.fed.us/documnts/pdf2000/winan00b.pdf>
- D15. Curling, S.F., J. E. Winandy, C. A. Clausen. 2000. An experimental method to simulate incipient decay of wood by basidiomycete fungi. International Research Group on Wood Preservation Document No. IRG/WP 00-20200, Stockholm, SWEDEN. 12pg. <http://www.fpl.fs.fed.us/documnts/pdf2000/curli00a.pdf>
- D16. Winandy, J. E., J. J. Morrell. 1993. Relationship between incipient decay, chemical composition, and physical properties of Douglas-fir heartwood. *Wood and Fiber Science* 25(3):278-288. (refereed). <http://www.fpl.fs.fed.us/documnts/pdf1993/winan93a.pdf>
- D17. Green, F., M. J. Larsen, J. E. Winandy, T. L. Highley. 1991. The role of oxalic acid in brown rot decay. *Materials und Organism* 26(3):191-213. (refereed). <http://www.fpl.fs.fed.us/documnts/pdf1991/green91b.pdf>
- D18. Winandy, J. E., J. J. Morrell. 1990. Protection of wood designs in adverse environments. In: Suprenant, Bruce S. ed. Serviceability and durability of construction materials. Proc. of the 1st Material Engineering Congress, August 13-15, 1990. Denver, CO. New York, NY. American Society of Civil Engineers, Vol 1:303-313. <https://www.fpl.fs.fed.us/documnts/pdf1990/winan90b.pdf>