

Frederick A Kamke

List of Publications by Year in descending order

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72
papers

1,676
citations

257101

24
h-index

315357

38
g-index

74
all docs

74
docs citations

74
times ranked

1049
citing authors

#	ARTICLE	IF	CITATIONS
1	Density profile and morphology of viscoelastic thermal compressed wood. <i>Wood Science and Technology</i> , 2009, 43, 57-68.	1.4	122
2	Analysis of Calcutta bamboo for structural composite materials: physical and mechanical properties. <i>Wood Science and Technology</i> , 2005, 39, 448-459.	1.4	101
3	Phenol-formaldehyde impregnation of densified wood for improved dimensional stability. <i>Wood Science and Technology</i> , 2010, 44, 95-104.	1.4	100
4	The mechanical properties of densified VTC wood relevant for structural composites. <i>European Journal of Wood and Wood Products</i> , 2008, 66, 439-446.	1.3	72
5	Quantitative Analysis of Gross Adhesive Penetration in Wood Using Fluorescence Microscopy. <i>Journal of Adhesion</i> , 1992, 40, 47-61.	1.8	69
6	Cluster theory for water sorption in wood. <i>Wood Science and Technology</i> , 1992, 26, 83.	1.4	69
7	Influence of temperature and steam environment on set recovery of compressive deformation of wood. <i>Wood Science and Technology</i> , 2012, 46, 953-964.	1.4	62
8	Application of dielectric analysis for monitoring the cure process of phenol formaldehyde adhesive. <i>International Journal of Adhesion and Adhesives</i> , 2007, 27, 562-567.	1.4	55
9	Computer simulation of a rotary dryer. Part I: Retention time. <i>AIChE Journal</i> , 1986, 32, 263-268.	1.8	51
10	Comparative analysis of a wood: adhesive bondline. <i>Wood Science and Technology</i> , 2011, 45, 147-158.	1.4	50
11	Compression of wood under saturated steam, superheated steam, and transient conditions at 150°C, 160°C, and 170°C. <i>Wood Science and Technology</i> , 2012, 46, 73-88.	1.4	50
12	DENSIFIED RADIATA PINE FOR STRUCTURAL COMPOSITES. <i>Maderas: Ciencia Y Tecnologia</i> , 2006, 8, 83.	0.7	46
13	Properties of parallel strand lumber from Calcutta bamboo (<i>Dendrocalamus strictus</i>). <i>Wood Science and Technology</i> , 2011, 45, 63-72.	1.4	43
14	Computer simulation of a rotary dryer. Part II: Heat and Mass Transfer. <i>AIChE Journal</i> , 1986, 32, 269-275.	1.8	40
15	Density profile relation to hardness of viscoelastic thermal compressed (VTC) wood composite. <i>Wood Science and Technology</i> , 2011, 45, 693-705.	1.4	39
16	Influence of temperature of thermal treatment on surface densification of spruce. <i>European Journal of Wood and Wood Products</i> , 2017, 75, 113-123.	1.3	39
17	Comparison of the flexural behavior of natural and thermo-hydro-mechanically densified Moso bamboo. <i>European Journal of Wood and Wood Products</i> , 2016, 74, 633-642.	1.3	38
18	Quantitative wood-adhesive penetration with X-ray computed tomography. <i>International Journal of Adhesion and Adhesives</i> , 2015, 61, 71-80.	1.4	35

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19	Transient Moisture Effects in Fibers and Composite Materials. <i>Journal of Composite Materials</i> , 1990, 24, 994-1009.	1.2	32
20	The influence of viscoelastic thermal compression on the chemistry and surface energetics of wood. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 329, 82-86.	2.3	31
21	Properties of compression-densified wood, Part II: surface energy. <i>Journal of Adhesion Science and Technology</i> , 2006, 20, 335-344.	1.4	28
22	X-ray computed tomography of wood-adhesive bondlines: attenuation and phase-contrast effects. <i>Wood Science and Technology</i> , 2015, 49, 1185-1208.	1.4	28
23	X-ray methods to observe and quantify adhesive penetration into wood. <i>Journal of Materials Science</i> , 2019, 54, 705-718.	1.7	28
24	Phenol formaldehyde adhesives formulated for advanced X-ray imaging in wood-composite bondlines. <i>Journal of Materials Science</i> , 2014, 49, 580-591.	1.7	27
25	Analysis of Calcutta bamboo for structural composite materials: surface characteristics. <i>Wood Science and Technology</i> , 2003, 37, 233-240.	1.4	24
26	Microstructure of viscoelastic thermal compressed (VTC) wood using computed microtomography. <i>Wood Science and Technology</i> , 2013, 47, 121-139.	1.4	24
27	Apparatus for viscoelastic thermal compression of wood. <i>European Journal of Wood and Wood Products</i> , 2011, 69, 483-487.	1.3	22
28	WBCSim: A Prototype Problem Solving Environment for Wood-Based Composites Simulations. <i>Engineering With Computers</i> , 1999, 15, 198-210.	3.5	19
29	The influence of thermal-hydro-mechanical processing on chemical characterization of <i>Tsuga heterophylla</i> . <i>Wood Science and Technology</i> , 2014, 48, 373-392.	1.4	17
30	A new quantitative method for evaluation of adhesive penetration pattern in particulate wood-based composites: elemental counting method. <i>Wood Science and Technology</i> , 2014, 48, 703-712.	1.4	17
31	Influence of the thermo-hydro-mechanical treatments of wood on the performance against wood-degrading fungi. <i>Wood Science and Technology</i> , 2013, 47, 977-992.	1.4	16
32	Properties of compression densified wood. Part I: bond performance. <i>Journal of Adhesion Science and Technology</i> , 2005, 19, 1249-1261.	1.4	15
33	Simultaneous drying and densification of silver birch (<i>Betula pendula</i> L.) veneers: analysis of morphology, thickness swelling, and density profile. <i>Wood Science and Technology</i> , 2014, 48, 325-336.	1.4	14
34	Comparison of alkali treatments on selected chemical, physical and mechanical properties of grape cane fibers. <i>Cellulose</i> , 2020, 27, 7371-7387.	2.4	14
35	Analysis of Adhesive Penetration into Wood using Nano-X-ray Computed Tomography. <i>Wood and Fiber Science</i> , 2018, 50, 66-76.	0.2	14
36	Fungal decay of viscoelastic thermal compressed (VTC) wood. <i>European Journal of Wood and Wood Products</i> , 2011, 69, 325-328.	1.3	13

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37	Methodology for comparing wood adhesive bond load transfer using digital volume correlation. <i>Wood Science and Technology</i> , 2018, 52, 1569-1587.	1.4	13
38	Understanding the effect of weathering on adhesive bonds for wood composites using digital image correlation (DIC). <i>Holzforschung</i> , 2019, 73, 155-164.	0.9	13
39	Fundamentals of flakeboard manufacture: wood-moisture relationships. <i>Wood Science and Technology</i> , 1991, 25, 57.	1.4	12
40	Evaluation of a Wood-Strand Molded Core Sandwich Panel. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	1.3	12
41	Viscoelastic properties of thermo-hydro-mechanically treated beech (<i>Fagus sylvatica</i> L.) determined using dynamic mechanical analysis. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 263-271.	1.3	12
42	Bonding performance and mechanism of thermal-hydro-mechanical modified veneer. <i>Wood Science and Technology</i> , 2018, 52, 343-363.	1.4	10
43	WBCSim: an environment for modeling wood-based composites manufacture. <i>Engineering With Computers</i> , 2006, 21, 259-271.	3.5	9
44	Influence of specimen size during accelerated weathering of wood-based structural panels. <i>Wood Material Science and Engineering</i> , 2020, 15, 17-29.	1.1	9
45	An experiment management component for the WBCSim problem solving environment. <i>Advances in Engineering Software</i> , 2004, 35, 115-123.	1.8	8
46	Integrated drying and thermo-hydro-mechanical modification of western hemlock veneer. <i>European Journal of Wood and Wood Products</i> , 2013, 71, 173-181.	1.3	8
47	The wettability and bonding performance of densified VTC beech (<i>Fagus sylvatica</i> L.) and Norway spruce (<i>Picea abies</i> (L.) Karst.) bonded with phenol-formaldehyde adhesive and liquefied wood. <i>European Journal of Wood and Wood Products</i> , 2013, 71, 371-379.	1.3	8
48	Bonding of THM modified Moso bamboo (<i>Phyllostachys pubescens</i> Mazel) using modified soybean protein isolate (SPI) based adhesives. <i>European Journal of Wood and Wood Products</i> , 2015, 73, 781-792.	1.3	8
49	Bonding of densified beech wood using adhesives based on thermally modified soy proteins. <i>European Journal of Wood and Wood Products</i> , 2017, 75, 767-776.	1.3	8
50	Bending performance of 3-layer beech (<i>Fagus sylvatica</i> L.) and Norway spruce (<i>Picea abies</i> (L.) Karst.) VTC composites bonded with phenol-formaldehyde adhesive and liquefied wood. <i>European Journal of Wood and Wood Products</i> , 2013, 71, 507-514.	1.3	7
51	A capacitive multi-wavelength sensor for moisture content gradient sensing in wood. <i>Wood Science and Technology</i> , 2018, 52, 717-732.	1.4	7
52	Performance of Light-Frame Timber Shear Walls Produced with Weathered Sheathing. <i>Journal of Architectural Engineering</i> , 2020, 26, .	0.8	7
53	Resistance of resin-impregnated VTC processed hybrid-poplar to fungal attack. <i>International Biodeterioration and Biodegradation</i> , 2015, 99, 174-176.	1.9	6
54	Influence of stress level on compression deformation of wood in 170°C transient steam conditions. <i>Wood Material Science and Engineering</i> , 2011, 6, 105-111.	1.1	5

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55	Transverse compression behavior of Douglas-fir (<i>Pseudotsuga menziesii</i>) in saturated steam environment. <i>European Journal of Wood and Wood Products</i> , 2013, 71, 443-449.	1.3	5
56	Unification of problem solving environment implementation layers with XML-based specifications. <i>Advances in Engineering Software</i> , 2008, 39, 189-201.	1.8	4
57	Data driven surrogate-based optimization in the problem solving environment WBCSim. <i>Engineering With Computers</i> , 2011, 27, 211-223.	3.5	4
58	Effect of chemical and thermal modification, and material replacement on strand board properties. <i>European Journal of Wood and Wood Products</i> , 2020, 78, 565-575.	1.3	4
59	Moisture Transport in Wood-Based Structural Panels under Transient Hygroscopic Conditions. <i>Forest Products Journal</i> , 2020, 70, 283-292.	0.2	4
60	Simulation of the Hot-pressing of a Multi-layered Wood Strand Composite. <i>Journal of Composite Materials</i> , 2007, 41, 879-904.	1.2	3
61	Potential error in density profile measurements for wood composites. <i>European Journal of Wood and Wood Products</i> , 2011, 69, 167-169.	1.3	3
62	Laboratory and Outdoor Weathering of Wood-Composite I-Joists. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, 04018148.	1.3	3
63	Method of Stabilizing Heavily Spalted Big Leaf Maple as a Decorative Coating Veneer Layer for Engineered Wood Flooring. <i>Coatings</i> , 2019, 9, 132.	1.2	3
64	Integrating optical measurement and modelling for quantitative analysis of the micromechanical load transfer in the wood-adhesive bond interphase. <i>International Wood Products Journal</i> , 2016, 7, 231-234.	0.6	2
65	Commercialization Potential of Viscoelastic Thermal Compressed Wood: Insights from the US Forest Products Industry. <i>Forest Products Journal</i> , 2011, 61, 500-509.	0.2	2
66	Potential for Using Essential Oils to Protect Viscoelastic Thermal Compression-Treated Hybrid Poplar. <i>Forest Products Journal</i> , 2015, 65, 93-99.	0.2	2
67	SMALL SPECIMEN COMPRESSION TESTING IN A PRESSURIZED STEAM ENVIRONMENT. <i>Experimental Techniques</i> , 1990, 14, 17-19.	0.9	1
68	Computational steering in the problem solving environment WBCSim. <i>Engineering Computations</i> , 2011, 28, 888-911.	0.7	1
69	Comparison of transverse compression creep of <i>Pseudotsuga menziesii</i> and <i>Populus sp.</i> in high-temperature steam environments. <i>Wood Material Science and Engineering</i> , 2014, 9, 84-91.	1.1	1
70	Effect of Alkali Treatment on the Tensile Properties of Grape Cane Fibers by Integrating Digital Image Correlation Method. <i>Wood and Fiber Science</i> , 2020, 52, 365-379.	0.2	1
71	Alkali Concentration and Diluent Effects on Properties of Grape Cane Fiber-Reinforced Polymer Composites. <i>Polymers</i> , 2021, 13, 4055.	2.0	1
72	Influence of Specimen Size on Accelerated Weathering of Laminated Veneer Lumber. <i>Forest Products Journal</i> , 2019, 69, 70-80.	0.2	0