

Xinzhou Wang

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,035
citations

361413

20
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434195

31
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44
all docs

44
docs citations

44
times ranked

583
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of the influence of process conditions on the temperature variation in fused deposition modeling. <i>Materials and Design</i> , 2017, 130, 59-68.	7.0	105
2	Bamboo flattening technique: a literature and patent review. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 1035-1048.	2.9	72
3	Incorporation of graphitic nano-filler and poly(lactic acid) in fused deposition modeling. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	66
4	Effects of thermal modification on the physical, chemical and micromechanical properties of Masson pine wood (<i>Pinus massoniana</i> Lamb.). <i>Holzforschung</i> , 2018, 72, 1063-1070.	1.9	61
5	In situ identification of the molecular-scale interactions of phenol-formaldehyde resin and wood cell walls using infrared nanospectroscopy. <i>RSC Advances</i> , 2016, 6, 76318-76324.	3.6	52
6	Effect of high-temperature saturated steam treatment on the physical, chemical, and mechanical properties of moso bamboo. <i>Journal of Wood Science</i> , 2020, 66, .	1.9	47
7	Evaluation of the effects of compression combined with heat treatment by nanoindentation (NI) of poplar cell walls. <i>Holzforschung</i> , 2014, 68, 167-173.	1.9	43
8	Bamboo flattening technology enables efficient and value-added utilization of bamboo in the manufacture of furniture and engineered composites. <i>Composites Part B: Engineering</i> , 2022, 242, 110097.	12.0	36
9	In situ measurement of heat-treated wood cell wall at elevated temperature by nanoindentation. <i>Industrial Crops and Products</i> , 2016, 87, 142-149.	5.2	35
10	The effects of thermal treatment on the nanomechanical behavior of bamboo (<i>Phyllostachys Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3</i>). <i>Holzforschung</i> , 2017, 71, 129-135.	1.9	34
11	Multi-Scale Evaluation of the Effect of Phenol Formaldehyde Resin Impregnation on the Dimensional Stability and Mechanical Properties of <i>Pinus Massoniana</i> Lamb.. <i>Forests</i> , 2019, 10, 646.	2.1	31
12	Effect of Phenol Formaldehyde Resin Penetration on the Quasi-Static and Dynamic Mechanics of Wood Cell Walls Using Nanoindentation. <i>Nanomaterials</i> , 2019, 9, 1409.	4.1	30
13	Optimization of cellulose nanofibrils carbon aerogel fabrication using response surface methodology. <i>European Polymer Journal</i> , 2015, 73, 137-148.	5.4	29
14	Effects of saturated steam pretreatment on the drying quality of moso bamboo culms. <i>European Journal of Wood and Wood Products</i> , 2019, 77, 949-951.	2.9	29
15	Effect of the penetration of isocyanates (pMDI) on the nanomechanics of wood cell wall evaluated by AFM-IR and nanoindentation (NI). <i>Holzforschung</i> , 2018, 72, 301-309.	1.9	27
16	Multi-scale evaluation of the effects of nanoclay on the mechanical properties of wood/phenol formaldehyde bondlines. <i>International Journal of Adhesion and Adhesives</i> , 2017, 74, 92-99.	2.9	26
17	A new approach for fabricating crack-free, flattened bamboo board and the study of its macro-/micro-properties. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 1531-1540.	2.9	26
18	Preparation of crack-free, non-notched, flattened bamboo board and its physical and mechanical properties. <i>Industrial Crops and Products</i> , 2021, 174, 114218.	5.2	26

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19	Multi-scale characterization of the thermal “ mechanically isolated bamboo fiber bundles and its potential application on engineered composites. <i>Construction and Building Materials</i> , 2020, 262, 120866.	7.2	23
20	Comparison of the fabrication process and macro and micro properties of two types of crack-free, flatten bamboo board. <i>Construction and Building Materials</i> , 2022, 317, 125949.	7.2	23
21	Temperature-dependent mechanical properties of wood-adhesive bondline evaluated by nanoindentation. <i>Journal of Adhesion</i> , 2017, 93, 640-656.	3.0	22
22	Effects of One-Step Hot Oil Treatment on the Physical, Mechanical, and Surface Properties of Bamboo Scrimber. <i>Molecules</i> , 2020, 25, 4488.	3.8	21
23	Multi-scale evaluation of the effect of saturated steam on the micromechanical properties of Moso bamboo. <i>Holzforschung</i> , 2021, 75, 1052-1060.	1.9	21
24	Effects of the combination of compression and impregnation with phenolic resin on the dimensional stability in the multiscale wood structure of Chinese fir. <i>Construction and Building Materials</i> , 2022, 327, 126960.	7.2	17
25	Contributions of Basic Chemical Components to the Mechanical Behavior of Wood Fiber Cell Walls as Evaluated by Nanoindentation. <i>BioResources</i> , 2016, 11, .	1.0	13
26	Effects of accelerated aging treatment on the microstructure and mechanics of wood-resin interphase. <i>Holzforschung</i> , 2018, 72, 235-241.	1.9	13
27	Investigating the nanomechanical behavior of thermosetting polymers using high-temperature nanoindentation. <i>European Polymer Journal</i> , 2015, 70, 360-370.	5.4	11
28	Effect of the nano-titanium dioxide (nano-TiO ₂) coating on the photoaging properties of thermally treated bamboo. <i>Wood Material Science and Engineering</i> , 2022, 17, 895-904.	2.3	10
29	Nanoscale Characterization of Reed Stalk Fiber Cell Walls. <i>BioResources</i> , 2013, 8, .	1.0	9
30	Understanding the effect of growth ring orientation on the compressive strength perpendicular to the grain of thermally treated wood. <i>Wood Science and Technology</i> , 2021, 55, 1439-1456.	3.2	9
31	Determination of the Effects of Superheated Steam on Microstructure and Micromechanical Properties of Bamboo Cell Walls Using Quasi-Static Nanoindentation. <i>Forests</i> , 2021, 12, 1742.	2.1	9
32	Multi-scale characterization of the effect of saturated steam on the macroscale properties and surface changes of moso bamboo. <i>Materials Express</i> , 2021, 11, 740-748.	0.5	8
33	Temperature-Dependent Creep Behavior and Quasi-Static Mechanical Properties of Heat-Treated Wood. <i>Forests</i> , 2021, 12, 968.	2.1	8
34	Change in Micro-Morphology and Micro-Mechanical Properties of Thermally Modified Moso Bamboo. <i>Polymers</i> , 2022, 14, 646.	4.5	8
35	Study on Bamboo Longitudinal Flattening Technology. <i>Polymers</i> , 2022, 14, 816.	4.5	8
36	Investigation of the relationship between surface colour, contact angle and chemical properties of heat-treated bamboo. <i>Wood Material Science and Engineering</i> , 2023, 18, 783-791.	2.3	6

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37	Multi-Scale Analysis of Changes in Crack-Free Flattened Moso Bamboo After Saturated Steam Treatment and Flattening Process. <i>Science of Advanced Materials</i> , 2021, 13, 1259-1267.	0.7	5
38	New insights into Chinese traditional handmade paper: influence of growth age on morphology and cellulose structure of phloem fibers from <i>Pteroceltis tatarinowii</i> . <i>Cellulose</i> , 2021, 28, 9943-9957.	4.9	3
39	Quantitative Evaluation of the Influence of Densification Process on Bamboo Cell Walls. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1296-1302.	0.5	3
40	Characterization of the Influence of Heat Compression on Bamboo Cell Walls by Nanoindentation. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1436-1443.	0.5	3
41	Understanding the impact of wood type and moisture on the bonding strength of glued wood. <i>Wood Material Science and Engineering</i> , 2023, 18, 303-313.	2.3	3
42	Multi-scale investigation of the mechanical properties of Loblolly pine wood at elevated temperature. <i>Wood Material Science and Engineering</i> , 2023, 18, 517-524.	2.3	3
43	Study on Physicochemical Properties and Potential Applications of Chemically Treated Luffa Sponge Fibers. <i>Journal of Natural Fibers</i> , 0, , 1-11.	3.1	0