

Chunping Dai

List of Publications by Year in descending order

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papers

735
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471061
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docs citations

30
times ranked

298
citing authors

#	ARTICLE	IF	CITATIONS
1	Bamboo-based composites: A review on fundamentals and processes of bamboo bonding. <i>Composites Part B: Engineering</i> , 2022, 235, 109776.	5.9	97
2	Flexural strength and ductility of moso bamboo. <i>Construction and Building Materials</i> , 2020, 246, 118418.	3.2	93
3	Mode I interlaminar fracture toughness behavior and mechanisms of bamboo. <i>Materials and Design</i> , 2019, 183, 108132.	3.3	55
4	Sustainability and innovation of bamboo winding composite pipe products. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 144, 110976.	8.2	54
5	Hygroscopic swelling of moso bamboo cells. <i>Cellulose</i> , 2020, 27, 611-620.	2.4	38
6	Influence of cell wall structure on the fracture behavior of bamboo (<i>Phyllostachys edulis</i>) fibers. <i>Industrial Crops and Products</i> , 2020, 155, 112787.	2.5	31
7	The evaluation of panel bond quality and durability of hem-fir cross-laminated timber (CLT). <i>European Journal of Wood and Wood Products</i> , 2018, 76, 833-841.	1.3	28
8	Fracture modes of bamboo fiber bundles in three-point bending. <i>Cellulose</i> , 2019, 26, 8101-8108.	2.4	26
9	Precise microcasting revealing the connectivity of bamboo pore network. <i>Industrial Crops and Products</i> , 2021, 170, 113787.	2.5	25
10	Spatial structure of wood composites in relation to processing and performance characteristics. <i>Wood Science and Technology</i> , 1994, 28, 135.	1.4	24
11	In-situ investigation of deformation behaviors of moso bamboo cells pertaining to flexural ductility. <i>Cellulose</i> , 2020, 27, 9623-9635.	2.4	21
12	Characterizing hydro-thermal compression behavior of aspen wood strands. <i>Holzforschung</i> , 2009, 63, 609-617.	0.9	20
13	Properties of strand boards with uniform and conventional vertical density profiles. <i>Wood Science and Technology</i> , 2009, 43, 559-574.	1.4	20
14	Development of soy-based adhesives for the manufacture of wood composite products. <i>Holzforschung</i> , 2012, 66, 857-862.	0.9	19
15	Spatial structure of wood composites in relation to processing and performance characteristics. <i>Wood Science and Technology</i> , 1993, 28, 45.	1.4	18
16	Development of Biodegradable Flame-Retardant Bamboo Charcoal Composites, Part I: Thermal and Elemental Analyses. <i>Polymers</i> , 2020, 12, 2217.	2.0	17
17	Development of Biodegradable Flame-Retardant Bamboo Charcoal Composites, Part II: Thermal Degradation, Gas Phase, and Elemental Analyses. <i>Polymers</i> , 2020, 12, 2238.	2.0	17
18	Intumescent-Grafted Bamboo Charcoal: A Natural Nontoxic Fire-Retardant Filler for Poly(lactic Acid (PLA) Composites. <i>ACS Omega</i> , 2021, 6, 26990-27006.	1.6	17

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19	Enhancement of Flame Retardancy and Mechanical Properties of Polylactic Acid with a Biodegradable Fire-Retardant Filler System Based on Bamboo Charcoal. <i>Polymers</i> , 2021, 13, 2167.	2.0	16
20	Computer simulation of the mat formation of bamboo scrimber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106542.	3.8	16
21	Heat and mass transfer in wood composite panels during hot pressing: Part 4. Experimental investigation and model validation. <i>Holzforschung</i> , 2007, 61, 83-88.	0.9	14
22	On horizontal density variation in randomly-formed short-fibre wood composite boards. <i>Composites Part A: Applied Science and Manufacturing</i> , 1997, 28, 57-64.	3.8	12
23	A generalized mat consolidation model for wood composites. <i>Holzforschung</i> , 2008, 62, 201-208.	0.9	12
24	Heat and mass transfer in wood composite panels during hot pressing: Part 3. Predicted variations and interactions of the pressing variables. <i>Holzforschung</i> , 2007, 61, 74-82.	0.9	9
25	Characterizing Mat Formation of Bamboo Fiber Composites: Horizontal Density Distribution. <i>Materials</i> , 2021, 14, 1198.	1.3	9
26	Water vapor sorption behavior of bamboo pertaining to its hierarchical structure. <i>Scientific Reports</i> , 2021, 11, 12714.	1.6	9
27	A new protocol for rapid assessment of bond durability of bio-based pipes: bamboo winding composite pipe as a case study. <i>European Journal of Wood and Wood Products</i> , 2022, 80, 947-959.	1.3	9
28	Influence of Fine Structure on the Variations of Thermal and Mechanical Properties in Flax Fibers Modified with Different Alkaline Treatment Conditions. <i>Journal of Natural Fibers</i> , 2022, 19, 5239-5257.	1.7	7
29	Optimum veneer peeling temperatures for selected softwood species using big roller bars. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 151-159.	1.3	1
30	Mechanical and Adsorptive Properties of Foamed EVA-Modified Polypropylene/Bamboo Charcoal Composites. <i>Materials</i> , 2021, 14, 1524.	1.3	1