

Ru Liu

List of Publications by Year in descending order

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50
papers

1,281
citations

331259

21
h-index

377514

34
g-index

50
all docs

50
docs citations

50
times ranked

1245
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation, physical, mechanical, and interfacial morphological properties of engineered bamboo scrimber. <i>Construction and Building Materials</i> , 2017, 157, 1032-1039.	3.2	143
2	Comparison on properties of lignocellulosic flour/polymer composites by using wood, cellulose, and lignin flours as fillers. <i>Composites Science and Technology</i> , 2014, 103, 1-7.	3.8	107
3	Effects of UV weathering on surface properties of polypropylene composites reinforced with wood flour, lignin, and cellulose. <i>Applied Surface Science</i> , 2014, 317, 385-392.	3.1	96
4	Characterization of surface chemistry and crystallization behavior of polypropylene composites reinforced with wood flour, cellulose, and lignin during accelerated weathering. <i>Applied Surface Science</i> , 2015, 332, 253-259.	3.1	91
5	Incorporation of microencapsulated dodecanol into wood flour/high-density polyethylene composite as a phase change material for thermal energy storage. <i>Materials and Design</i> , 2016, 89, 1325-1334.	3.3	63
6	Characterization of organo-montmorillonite (OMMT) modified wood flour and properties of its composites with poly(lactic acid). <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 51, 33-42.	3.8	59
7	Preparation of a kind of novel sustainable mycelium/cotton stalk composites and effects of pressing temperature on the properties. <i>Industrial Crops and Products</i> , 2019, 141, 111732.	2.5	42
8	The reinforcing mechanism of mechanical properties of bamboo fiber bundle reinforced composites. <i>Polymer Composites</i> , 2019, 40, 1463-1472.	2.3	41
9	Resistance to fungal decay of paraffin wax emulsion/copper azole compound system treated wood. <i>International Biodeterioration and Biodegradation</i> , 2018, 129, 61-66.	1.9	40
10	Effects of Modifier Type on Properties of in Situ Organo-Montmorillonite Modified Wood Flour/Poly(lactic acid) Composites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 161-168.	4.0	37
11	Assessing the impact of wood decay fungi on the modulus of elasticity of slash pine (<i>Pinus elliottii</i>) by stress wave non-destructive testing. <i>International Biodeterioration and Biodegradation</i> , 2017, 117, 123-127.	1.9	30
12	Characterization of Odors of Wood by Gas Chromatography-Olfactometry with Removal of Extractives as Attempt to Control Indoor Air Quality. <i>Molecules</i> , 2018, 23, 203.	1.7	29
13	Improvement of the water repellency, dimensional stability, and biological resistance of bamboo based fiber reinforced composites. <i>Polymer Composites</i> , 2019, 40, 506-513.	2.3	29
14	Thermal stability of organo-montmorillonite modified wood flour/poly(lactic acid) composites. <i>Polymer Composites</i> , 2016, 37, 1971-1977.	2.3	28
15	Dialdehyde modified cellulose nanofibers enhanced the physical properties of decorative paper impregnated by aldehyde-free adhesive. <i>Carbohydrate Polymers</i> , 2020, 250, 116941.	5.1	28
16	Identification of Three <i>Dalbergia</i> Species Based on Differences in Extractive Components. <i>Molecules</i> , 2018, 23, 2163.	1.7	27
17	Measurement of three wood materials against weathering during long natural sunlight exposure. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 102, 179-185.	2.5	24
18	Effects of two types of clay on physical and mechanical properties of poly(lactic acid)/wood flour composites at various wood flour contents. <i>Journal of Applied Polymer Science</i> , 2013, 127, 2566-2573.	1.3	23

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19	Improvement of dimensional stability of wood by <i>in situ</i> synthesis of organo-montmorillonite: preparation and properties of modified Southern pine wood. <i>Holzforschung</i> , 2014, 68, 29-36.	0.9	23
20	Analysis of Chemical Composition of Extractives by Acetone and the Chromatic Aberration of Teak (<i>Tectona Grandis</i> L.F.) from China. <i>Molecules</i> , 2019, 24, 1989.	1.7	23
21	Comparison on the Aging of Woods Exposed to Natural Sunlight and Artificial Xenon Light. <i>Polymers</i> , 2019, 11, 709.	2.0	23
22	Surface properties of <i>in situ</i> organo-montmorillonite modified wood flour and the influence on mechanical properties of composites with polypropylene. <i>Applied Surface Science</i> , 2016, 361, 234-241.	3.1	22
23	Improvement of mechanical properties of mycelium/cotton stalk composites by water immersion. <i>Composite Interfaces</i> , 2020, 27, 953-966.	1.3	18
24	Synergistic effect of montmorillonite/lignin on improvement of water resistance and dimensional stability of <i>Populus cathayana</i> . <i>Industrial Crops and Products</i> , 2019, 141, 111747.	2.5	17
25	Preparation of a Fast Water-Based UV Cured Polyurethane-Acrylate Wood Coating and the Effect of Coating Amount on the Surface Properties of Oak (<i>Quercus alba</i> L.). <i>Polymers</i> , 2019, 11, 1414.	2.0	17
26	Physical, mechanical, and thermal properties of micronized organo-montmorillonite suspension modified wood flour/poly(lactic acid) composites. <i>Polymer Composites</i> , 2015, 36, 731-738.	2.3	14
27	Effect of MAPP on interfacial compatibility of wood flour/polypropylene composite evaluated with dielectric approach. <i>Polymer Composites</i> , 2014, 35, 489-494.	2.3	13
28	Effects of vitamin E combined with antioxidants on wood flour/polypropylene composites during accelerated weathering. <i>Holzforschung</i> , 2015, 69, 113-120.	0.9	13
29	Characterization and properties of organo-montmorillonite modified lignocellulosic fibers and their interaction mechanisms. <i>RSC Advances</i> , 2015, 5, 76708-76717.	1.7	13
30	Mechanical properties of wood flour/poly (lactic acid) composites coupled with waterborne silane-polyacrylate copolymer emulsion. <i>Holzforschung</i> , 2016, 70, 439-447.	0.9	13
31	Comparison of six WPCs made of organo-montmorillonite-modified fibers of four trees, moso bamboo and wheat straw and poly(lactic acid) (PLA). <i>Holzforschung</i> , 2018, 72, 735-744.	0.9	13
32	Dialdehyde starch reinforced polyacrylate-polyethylene glycol resin for impregnated decorative paper with improved toughness and ultra-low formaldehyde emission. <i>Industrial Crops and Products</i> , 2022, 176, 114390.	2.5	13
33	Antiweathering effects of vitamin E on wood flour/polypropylene composites. <i>Polymer Composites</i> , 2014, 35, 2085-2093.	2.3	12
34	Identification of odorous constituents of southern yellow pine and China fir wood: the effects of extractive removal. <i>Analytical Methods</i> , 2018, 10, 2115-2122.	1.3	12
35	A comparison of various ionic surfactant modifiers used in <i>in situ</i> synthesis of organo-montmorillonite inside wood flour. <i>Industrial Crops and Products</i> , 2014, 62, 387-394.	2.5	11
36	A Comparison of the Performance of Two Kinds of Waterborne Coatings on Bamboo and Bamboo Scrimber. <i>Coatings</i> , 2019, 9, 161.	1.2	10

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37	Preparation and properties of high-performance fast-growing wood modified by exfoliated organo-montmorillonite in waterborne hyperbranched polyacrylate emulsion. <i>Construction and Building Materials</i> , 2021, 298, 123868.	3.2	9
38	Stress relaxation of composites made of polypropylene and organo-montmorillonite modified wood flour during water immersion. <i>Holzforschung</i> , 2017, 71, 163-170.	0.9	6
39	Preparation of Organo-Montmorillonite Modified Poly(lactic acid) and Properties of Its Blends with Wood Flour. <i>Polymers</i> , 2019, 11, 204.	2.0	6
40	Organo-montmorillonite modified wood flour/poly (lactic acid) composites via different modification process. <i>Polymer Composites</i> , 2021, 42, 987-994.	2.3	6
41	Tensile behavior and water absorption of innovative composites from natural cork granules and bamboo particles. <i>Composite Structures</i> , 2021, 258, 113376.	3.1	6
42	Coating Performance of Water-Based Polyurethane-Acrylate Coating on Bamboo/Bamboo Scrimber Substrates. <i>Advances in Polymer Technology</i> , 2019, 2019, 1-8.	0.8	5
43	Wood composites modified with waterborne hyperbranched polyacrylate dispersed organo-montmorillonite emulsion and the permeability investigations by surface characterizations. <i>Polymer Composites</i> , 2020, 41, 3798-3806.	2.3	5
44	Preparation and properties of light-resistant printing UV ink modified with nano-TiO ₂ on wood substrate. <i>Surface Engineering</i> , 2019, 35, 557-564.	1.1	4
45	Preparation of small particle diameter thermally expandable microspheres under atmospheric pressure for potential utilization in wood. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49734.	1.3	4
46	Enhancement of the physical and mechanical properties of wood using a novel organo-montmorillonite/hyperbranched polyacrylate emulsion. <i>Holzforschung</i> , 2021, 75, 545-554.	0.9	4
47	Comparison on Reduction of VOCs Emissions from Radiata Pine (<i>Pinus Radiata</i> D. Don) between Sodium Bicarbonate and Ozone Treatments. <i>Molecules</i> , 2020, 25, 471.	1.7	3
48	Protection of wood in ancient timber construction by surface painting of waterborne siloxane-modified polyurethane against water destroy. <i>Wood Material Science and Engineering</i> , 2023, 18, 314-321.	1.1	3
49	Fungi resistance of organo-montmorillonite modified lignocellulosic flour/polypropylene composites. <i>Polymer Composites</i> , 2018, 39, 3831-3840.	2.3	2
50	Aging performance of nano-ZnO modified polyurethane-acrylic UV ink composites on wood and the degradation mechanism. <i>Polymer Composites</i> , 2019, 40, 3533-3540.	2.3	1