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	Protection of wood in ancient timber construction by surface painting of waterborne siloxane-modified polyurethane against water destroy. Wood Material Science and Engineering, 2023, 18, 314-321.	1.1	3
2	Dialdehyde starch reinforced polyacrylate-polyethylene glycol resin for impregnated decorative paper with improved toughness and ultra-low formaldehyde emission. Industrial Crops and Products, 2022, 176, 114390.	2.5	13
3	Preparation of small particle diameter thermally expandable microspheres under atmospheric pressure for potential utilization in wood. Journal of Applied Polymer Science, 2021, 138, 49734.	1.3	4
4	Organoâ€montmorillonite modified wood flour/poly (lactic acid) composites via different modification process. Polymer Composites, 2021, 42, 987-994.	2.3	6
5	Tensile behavior and water absorption of innovative composites from natural cork granules and bamboo particles. Composite Structures, 2021, 258, 113376.	3.1	6
6	Preparation and properties of high-performance fast-growing wood modified by exfoliated organo-montmorillonite in waterborne hyperbranched polyacrylate emulsion. Construction and Building Materials, 2021, 298, 123868.	3.2	9
7	Enhancement of the physical and mechanical properties of wood using a novel organo-montmorillonite/hyperbranched polyacrylate emulsion. Holzforschung, 2021, 75, 545-554.	0.9	4
8	Dialdehyde modified cellulose nanofibers enhanced the physical properties of decorative paper impregnated by aldehyde-free adhesive. Carbohydrate Polymers, 2020, 250, 116941.	5.1	28
9	Wood composites modified with waterborne hyperbranched polyacrylate dispersed organoâ€montmorillonite emulsion and the permeability investigations by surface characterizations. Polymer Composites, 2020, 41, 3798-3806.	2.3	5
10	Improvement of mechanical properties of mycelium/cotton stalk composites by water immersion. Composite Interfaces, 2020, 27, 953-966.	1.3	18
11	Comparison on Reduction of VOCs Emissions from Radiata Pine (Pinus Radiata D. Don) between Sodium Bicarbonate and Ozone Treatments. Molecules, 2020, 25, 471.	1.7	3
12	Synergistic effect of montmorillonite/lignin on improvement of water resistance and dimensional stability of Populus cathayana. Industrial Crops and Products, 2019, 141, 111747.	2.5	17
13	Preparation and properties of light-resistant printing UV ink modified with nano-TiO₂ on wood substrate. Surface Engineering, 2019, 35, 557-564.	1.1	4
14	Preparation of a Fast Water-Based UV Cured Polyurethane-Acrylate Wood Coating and the Effect of Coating Amount on the Surface Properties of Oak (Quercus alba L.). Polymers, 2019, 11, 1414.	2.0	17
15	Preparation of a kind of novel sustainable mycelium/cotton stalk composites and effects of pressing temperature on the properties. Industrial Crops and Products, 2019, 141, 111732.	2.5	42
16	Aging performance of nanoâ€Zno modified polyurethaneâ€acrylic UV ink composites on wood and the degradation mechanism. Polymer Composites, 2019, 40, 3533-3540.	2.3	1
17	Analysis of Chemical Composition of Extractives by Acetone and the Chromatic Aberration of Teak (Tectona Grandis L.F.) from China. Molecules, 2019, 24, 1989.	1.7	23
18	Comparison on the Aging of Woods Exposed to Natural Sunlight and Artificial Xenon Light. Polymers, 2019, 11, 709.	2.0	23

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19	Coating Performance of Water-Based Polyurethane-Acrylate Coating on Bamboo/Bamboo Scrimber Substrates. Advances in Polymer Technology, 2019, 2019, 1-8.	0.8	5
20	A Comparison of the Performance of Two Kinds of Waterborne Coatings on Bamboo and Bamboo Scrimber. Coatings, 2019, 9, 161.	1.2	10
21	Preparation of Organo-Montmorillonite Modified Poly(lactic acid) and Properties of Its Blends with Wood Flour. Polymers, 2019, 11, 204.	2.0	6
22	The reinforcing mechanism of mechanical properties of bamboo fiber bundleâ€reinforced composites. Polymer Composites, 2019, 40, 1463-1472.	2.3	41
23	Improvement of the water repellency, dimensional stability, and biological resistance of bambooâ€based fiber reinforced composites. Polymer Composites, 2019, 40, 506-513.	2.3	29
24	Comparison of six WPCs made of organo-montmorillonite-modified fibers of four trees, moso bamboo and wheat straw and poly(lactic acid) (PLA). Holzforschung, 2018, 72, 735-744.	0.9	13
25	Identification of odorous constituents of southern yellow pine and China fir wood: the effects of extractive removal. Analytical Methods, 2018, 10, 2115-2122.	1.3	12
26	Resistance to fungal decay of paraffin wax emulsion/copper azole compound system treated wood. International Biodeterioration and Biodegradation, 2018, 129, 61-66.	1.9	40
27	Fungi resistance of organoâ€montmorillonite modified lignocellulosic flour/polypropylene composites. Polymer Composites, 2018, 39, 3831-3840.	2.3	2
28	Identification of Three Dalbergia Species Based on Differences in Extractive Components. Molecules, 2018, 23, 2163.	1.7	27
29	Characterization of Odors of Wood by Gas Chromatography-Olfactometry with Removal of Extractives as Attempt to Control Indoor Air Quality. Molecules, 2018, 23, 203.	1.7	29
30	Measurement of three wood materials against weathering during long natural sunlight exposure. Measurement: Journal of the International Measurement Confederation, 2017, 102, 179-185.	2.5	24
31	Stress relaxation of composites made of polypropylene and organo-montmorillonite modified wood flour during water immersion. Holzforschung, 2017, 71, 163-170.	0.9	6
32	Assessing the impact of wood decay fungi on the modulus of elasticity of slash pine (Pinus elliottii) by stress wave non-destructive testing. International Biodeterioration and Biodegradation, 2017, 117, 123-127.	1.9	30
33	Preparation, physical, mechanical, and interfacial morphological properties of engineered bamboo scrimber. Construction and Building Materials, 2017, 157, 1032-1039.	3.2	143
34	Mechanical properties of wood flour/poly (lactic acid) composites coupled with waterborne silane-polyacrylate copolymer emulsion. Holzforschung, 2016, 70, 439-447.	0.9	13
35	Thermal stability of organoâ€montmoriloniteâ€modified wood flour/poly(lactic acid) composites. Polymer Composites, 2016, 37, 1971-1977.	2.3	28
36	Incorporation of microencapsulated dodecanol into wood flour/high-density polyethylene composite as a phase change material for thermal energy storage. Materials and Design, 2016, 89, 1325-1334.	3.3	63

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37	Effects of Modifier Type on Properties of in Situ Organo-Montmorillonite Modified Wood Flour/Poly(lactic acid) Composites. ACS Applied Materials & Interfaces, 2016, 8, 161-168.	4.0	37
38	Surface properties of in situ organo-montmorillonite modified wood flour and the influence on mechanical properties of composites with polypropylene. Applied Surface Science, 2016, 361, 234-241.	3.1	22
39	Effects of vitamin E combined with antioxidants on wood flour/polypropylene composites during accelerated weathering. Holzforschung, 2015, 69, 113-120.	0.9	13
40	Characterization of surface chemistry and crystallization behavior of polypropylene composites reinforced with wood flour, cellulose, and lignin during accelerated weathering. Applied Surface Science, 2015, 332, 253-259.	3.1	91
41	Characterization and properties of organo-montmorillonite modified lignocellulosic fibers and their interaction mechanisms. RSC Advances, 2015, 5, 76708-76717.	1.7	13
42	Physical, mechanical, and thermal properties of micronized organo-montmorillonite suspension modified wood flour/poly(lactic acid) composites. Polymer Composites, 2015, 36, 731-738.	2.3	14
43	Antiweathering effects of vitamin E on wood flour/polypropylene composites. Polymer Composites, 2014, 35, 2085-2093.	2.3	12
44	Effect of MAPP on interfacial compatibility of wood flour/polypropylene composite evaluated with dielectric approach. Polymer Composites, 2014, 35, 489-494.	2.3	13
45	Improvement of dimensional stability of wood by in situ synthesis of organo-montmorillonite: preparation and properties of modified Southern pine wood. Holzforschung, 2014, 68, 29-36.	0.9	23
46	A comparison of various ionic surfactant modifiers used in in situ synthesis of organo-montmorillonite inside wood flour. Industrial Crops and Products, 2014, 62, 387-394.	2.5	11
47	Comparison on properties of lignocellulosic flour/polymer composites by using wood, cellulose, and lignin flours as fillers. Composites Science and Technology, 2014, 103, 1-7.	3.8	107
48	Effects of UV weathering on surface properties of polypropylene composites reinforced with wood flour, lignin, and cellulose. Applied Surface Science, 2014, 317, 385-392.	3.1	96
49	Effects of two types of clay on physical and mechanical properties of poly(lactic acid)/wood flour composites at various wood flour contents. Journal of Applied Polymer Science, 2013, 127, 2566-2573.	1.3	23
50	Characterization of organo-montmorillonite (OMMT) modified wood flour and properties of its composites with poly(lactic acid). Composites Part A: Applied Science and Manufacturing, 2013, 51, 33-42.	3.8	59