Rongxian Ou

List of Publications by Year
in descending order

45 papers	1,448 citations	331670 21 h-index	330143 37 g-index
45 all docs	45 docs citations	45 times ranked	1198 citing authors

#	Article	IF	Citations
1	Sustainable, high-performance, flame-retardant waterborne wood coatings via phytic acid based green curing agent for melamine-urea-formaldehyde resin. Progress in Organic Coatings, 2022, 162, 106597.	3.9	24
2	From plant phenols to novel bio-based polymers. Progress in Polymer Science, 2022, 125, 101473.	24.7	78
3	Recycling end-of-life WPC products into ultra-high-filled, high-performance wood fiber/polyethylene composites: a sustainable strategy for clean and cyclic processing in the WPC industry. Journal of Materials Research and Technology, 2022, 18, 1-14.	5.8	19
4	Fully Biobased Soy Protein Adhesives with Integrated High-Strength, Waterproof, Mildew-Resistant, and Flame-Retardant Properties. ACS Sustainable Chemistry and Engineering, 2022, 10, 6675-6686.	6.7	20
5	Water-Induced Self-Assembly and <i>In Situ</i> Mineralization within Plant Phenolic Glycol-Gel toward Ultrastrong and Multifunctional Thermal Insulating Aerogels. ACS Nano, 2022, 16, 9062-9076.	14.6	38
6	Developing a Unilaterally Surface-Densified Wood Composite with Excellent Performance through Surface Impregnation of Furfuryl Alcohol Resin. ACS Applied Polymer Materials, 2022, 4, 5308-5318.	4.4	8
7	High-performance epoxy vitrimer with superior self-healing, shape-memory, flame retardancy, and antibacterial properties based on multifunctional curing agent. Composites Part B: Engineering, 2022, 242, 110109.	12.0	46
8	Rheological Properties of Woodâ€“Plastic Composites by 3D Numerical Simulations: Different Components. Forests, 2021, 12, 417.	2.1	3
9	Fully recyclable, flame-retardant and high-performance carbon fiber composites based on vanillin-terminated cyclophosphazene polyimine thermosets. Composites Part B: Engineering, 2021, 224, 109188.	12.0	63
10	Interfacial adhesion mechanisms of ultra-highly filled wood fiber/polyethylene composites using maleic anhydride grafted polyethylene as a compatibilizer. Materials and Design, 2021, 212, 110182.	7.0	27
11	Mechanical properties, morphology, and creep resistance of ultra-highly filled bamboo fiber/polypropylene composites: Effects of filler content and melt flow index of polypropylene. Construction and Building Materials, 2021, 310, 125289.	7.2	14
12	Design of Intrinsically Flame-Retardant Vanillin-Based Epoxy Resin for Thermal-Conductive Epoxy/Graphene Aerogel Composites. ACS Applied Materials & Interfaces, 2021, 13, 59341-59351.	8.0	35
13	Solvent-free pulverization and surface fatty acylation of pulp fiber for property-enhanced cellulose/polypropylene composites. Journal of Cleaner Production, 2020, 244, 118811.	9.3	10
14	High-strength, lightweight, co-extruded wood flour-polyvinyl chloride/lumber composites: Effects of wood content in shell layer on mechanical properties, creep resistance, and dimensional stability. Journal of Cleaner Production, 2020, 244, 118860.	9.3	28
15	Enhancing the flame retardancy and mechanical properties of veneered wood flour/polyvinyl chloride composites. Polymer Composites, 2020, 41, 848-857.	4.6	9
16	Synthesis of lignin-based polyols via thiol-ene chemistry for high-performance polyurethane anticorrosive coating. Composites Part B: Engineering, 2020, 200, 108295.	12.0	47
17	Mechanical Properties and Fire Retardancy of Wood Flour/High-Density Polyethylene Composites Reinforced with Continuous Honeycomb-Like Nano-SiO2 Network and Fire Retardant. Journal of Renewable Materials, 2020, 8, 485-498.	2.2	3
18	Highly compressible hydrogel sensors with synergistic long-lasting moisture, extreme temperature tolerance and strain-sensitivity properties. Materials Chemistry Frontiers, 2020, 4, 3319-3327.	5.9	22

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19	Comparative study on the effects of silica size and dispersion mode on the fire retardancy of extruded wood fiber/ HDPE composites. Polymer Composites, 2020, 41, 4920-4932.	4.6	2
20	Effects of SiO2 Filler in the Shell and Wood Fiber in the Core on the Thermal Expansion of Coreâ€“Shell Wood/Polyethylene Composites. Polymers, 2020, 12, 2570.	4.5	9
21	The influence of double-layered distribution of fire retardants on the fire retardancy and mechanical properties of wood fiber polypropylene composites. Construction and Building Materials, 2020, 242, 118047.	7.2	23
22	Effects of fiber geometry and orientation distribution on the anisotropy of mechanical properties, creep behavior, and thermal expansion of natural fiber/HDPE composites. Composites Part B: Engineering, 2020, 185, 107778.	12.0	74
23	Development and evaluation of a surface-densified wood composite with an asymmetric structure. Construction and Building Materials, 2020, 242, 118007.	7.2	21
24	Statistical distribution of mechanical properties and energy absorption of laminated cotton fabric reinforced epoxy composites. Polymer Composites, 2020, 41, 2829-2840.	4.6	6
25	Mechanical properties, creep resistance, and dimensional stability of core/shell structured wood flour/polyethylene composites with highly filled core layer. Construction and Building Materials, 2019, 226, 879-887.	7.2	38
26	Bamboo particle reinforced polypropylene composites made from different fractions of bamboo culm: Fiber characterization and analysis of composite properties. Polymer Composites, 2019, 40, 4619-4628.	4.6	18
27	Synergistic toughening effects of grafting modification and elastomer-olefin block copolymer addition on the fracture resistance of wood particle/polypropylene/elastomer composites. Materials and Design, 2019, 181, 107918.	7.0	19
28	Effects of lubricants on the rheological and mechanical properties of wood flour/polypropylene composites. Journal of Applied Polymer Science, 2019, 136, 47667.	2.6	13
29	Flame retardant eugenol-based thiol-ene polymer networks with high mechanical strength and transparency. Chemical Engineering Journal, 2019, 368, 359-368.	12.7	90
30	Extraordinary solution-processability of lignin in phenolâ€“maleic anhydride and dielectric films with controllable properties. Journal of Materials Chemistry A, 2019, 7, 23162-23172.	10.3	16
31	Synthesis and characterization of the n-butyl palmitate as an organic phase change material. Journal of Thermal Analysis and Calorimetry, 2019, 136, 2033-2039.	3.6	11
32	Preparation and Characterization of Modified Porous Wood Flour/Lauric-Myristic Acid Eutectic Mixture as a Form-Stable Phase Change Material. Energy & Fuels, 2018, 32, 5453-5461.	5.1	53
33	Toughness and crystallization enhancement in wood fiber-reinforced polypropylene composite through controlling matrix nucleation. Journal of Materials Science, 2018, 53, 6542-6551.	3.7	26
34	The properties of flax fiber reinforced wood flour/high density polyethylene composites. Journal of Forestry Research, 2018, 29, 533-540.	3.6	21
35	Rheological behavior and mechanical properties of wood flour/high density polyethylene blends: Effects of esterification of wood with citric acid. Polymer Composites, 2016, 37, 553-560.	4.6	17
36	Material pocket dynamic mechanical analysis: a novel tool to study thermal transition in wood fibers plasticized by an ionic liquid (IL). Holzforschung, 2015, 69, 223-232.	1.9	11

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37	Thermal, crystallization, and dynamic rheological behavior of wood particle/HDPE composites: Effect of removal of wood cell wall composition. Journal of Applied Polymer Science, 2014, 131, .	2.6	14
38	Morphology, mechanical properties, and dimensional stability of wood particle/high density polyethylene composites: Effect of removal of wood cell wall composition. Materials & Design, 2014, 58, 339-345.	5.1	97
39	Effects of ionic liquid on the rheological properties of wood flour/high density polyethylene composites. Composites Part A: Applied Science and Manufacturing, 2014, 61, 134-140.	7.6	34
40	Effect of wood cell wall composition on the rheological properties of wood particle/high density polyethylene composites. Composites Science and Technology, 2014, 93, 68-75.	7.8	84
41	Effects of chemical modification of wood flour on the rheological properties of highâ€density polyethylene blends. Journal of Applied Polymer Science, 2014, 131, .	2.6	9
42	Grafting effects of polypropylene/polyethylene blends with maleic anhydride on the properties of the resulting woodâ€“plastic composites. Composites Part A: Applied Science and Manufacturing, 2012, 43, 150-157.	7.6	123
43	Isothermal crystallization kinetics of Kevlar fiberâ€reinforced wood flour/highâ€density polyethylene composites. Journal of Applied Polymer Science, 2012, 126, E2.	2.6	8
44	Solid biopolymer electrolytes based on all-cellulose composites prepared by partially dissolving cellulosic fibers in the ionic liquid 1-butyl-3-methylimidazolium chloride. Journal of Materials Science, 2012, 47, 5978-5986.	3.7	34
45	Reinforcing effects of Kevlar fiber on the mechanical properties of wood-flour/high-density-polyethylene composites. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1272-1278.	7.6	83