Lu Wang

List of Publications by Year
in descending order

27 papers	1,276 citations	361413 20 h-index	526287 27 g-index
27 all docs	27 docs citations	27 times ranked	1165 citing authors

#	Article	IF	Citations
1	Improving the impact strength of Poly(lactic acid) (PLA) in fused layer modeling (FLM). Polymer, 2017, 114, 242-248.	3.8	204
2	Woodâ€“Plastic Composite Technology. Current Forestry Reports, 2015, 1, 139-150.	7.4	116
3	Alignment of Cellulose Nanofibers: Harnessing Nanoscale Properties to Macroscale Benefits. ACS Nano, 2021, 15, 3646-3673.	14.6	108
4	Effect of fused layer modeling (FLM) processing parameters on impact strength of cellular polypropylene. Polymer, 2017, 113, 74-80.	3.8	89
5	Recent Advances in Functional Materials through Cellulose Nanofiber Templating. Advanced Materials, 2021, 33, e2005538.	21.0	77
6	Cellulose nanofibrils versus cellulose nanocrystals: Comparison of performance in flexible multilayer films for packaging applications. Food Packaging and Shelf Life, 2020, 23, 100464.	7.5	66
7	Recycling of natural fiber composites: Challenges and opportunities. Resources, Conservation and Recycling, 2022, 177, 105962.	10.8	62
8	High-Strength Polylactic Acid (PLA) Biocomposites Reinforced by Epoxy-Modified Pine Fibers. ACS Sustainable Chemistry and Engineering, 2020, 8, 13236-13247.	6.7	59
9	Material Extrusion Additive Manufacturing of Wood and Lignocellulosic Filled Composites. Polymers, 2020, 12, 2115.	4.5	52
10	Review on Nonconventional Fibrillation Methods of Producing Cellulose Nanofibrils and Their Applications. Biomacromolecules, 2021, 22, 4037-4059.	5.4	45
11	Effect of fused deposition modeling process parameters on the mechanical properties of a filled polypropylene. Progress in Additive Manufacturing, 2018, 3, 205-214.	4.8	44
12	Towards industrial-scale production of cellulose nanocomposites using melt processing: A critical review on structure-processing-property relationships. Composites Part B: Engineering, 2020, 201, 108297.	12.0	41
13	Cellulose nanofibrilâ€reinforced polypropylene composites for material extrusion: Rheological properties. Polymer Engineering and Science, 2018, 58, 793-801.	3.1	39
14	Spray-Dried Cellulose Nanofibril-Reinforced Polypropylene Composites for Extrusion-Based Additive Manufacturing: Nonisothermal Crystallization Kinetics and Thermal Expansion. Journal of Composites Science, 2018, 2, 7.	3.0	35
15	Mechanisms contributing to mechanical property changes in composites of polypropylene reinforced with spray-dried cellulose nanofibrils. Cellulose, 2018, 25, 439-448.	4.9	33
16	Contribution of printing parameters to the interfacial strength of polylactic acid (PLA) in material extrusion additive manufacturing. Progress in Additive Manufacturing, 2018, 3, 165-171.	4.8	30
17	In-situ modification of cellulose nanofibrils by organosilanes during spray drying. Industrial Crops and Products, 2016, 93, 129-135.	5.2	27
18	Towards a cellulose-based society: opportunities and challenges. Cellulose, 2021, 28, 4511-4543.	4.9	27

#	Article	IF	Citations
19	Closed-loop recycling of polyamide12 powder from selective laser sintering into sustainable composites. Journal of Cleaner Production, 2018, 195, 765-772.	9.3	24
20	Thermal properties of spray-dried cellulose nanofibril-reinforced polypropylene composites from extrusion-based additive manufacturing. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1069-1077.	3.6	22
21	Pretreatment of lignocellulosic feedstocks for cellulose nanofibril production. Cellulose, 2022, 29, 4835-4876.	4.9	22
22	Recycled Cardboard Containers as a Low Energy Source for Cellulose Nanofibrils and Their Use in Poly(<scp>l</scp>-lactide) Nanocomposites. ACS Sustainable Chemistry and Engineering, 2021, 9, 13460-13470.	6.7	14
23	Transparent Multifunctional Cellulose Nanocrystal Films Prepared Using Trivalent Metal Ion Exchange for Food Packaging. ACS Sustainable Chemistry and Engineering, 2022, 10, 9419-9430.	6.7	14
24	Elasto-Plastic Finite Element Modeling of Short Carbon Fiber Reinforced 3D Printed Acrylonitrile Butadiene Styrene Composites. Jom, 2020, 72, 475-484.	1.9	12
25	Comparing mechanical properties of impact modified polypropylene-copolymer (IMPP) from injection molding (IM) and fused layer modeling (FLM) processes. Rapid Prototyping Journal, 2020, 26, 993-1003.	3.2	6
26	Are Foliar Fertilizers Beneficial to Growth and Yield of Wild Lowbush Blueberries?. Agronomy, 2022, 12, 470.	3.0	5
27	Interactions of Cellulose Nanofibrils with a Foliar Fertilizer and Wild Blueberry Leaves: Potential to Enhance Fruit Yield. ACS Agricultural Science and Technology, 2022, 2, 712-718.	2.3	3