Tao Yu

List of Publications by Year in descending order

38 papers	2,348 citations	279701 23 h-index	315616 38 g-index
39 all docs	39 docs citations	39 times ranked	2352 citing authors

#	Article	IF	Citations
1	Effect of fiber surface-treatments on the properties of poly(lactic acid)/ramie composites. Composites Part A: Applied Science and Manufacturing, 2010, 41, 499-505.	3.8	401
2	Tensile and interfacial properties of unidirectional flax/glass fiber reinforced hybrid composites. Composites Science and Technology, 2013, 88, 172-177.	3.8	295
3	Study on short ramie fiber/poly(lactic acid) composites compatibilized by maleic anhydride. Composites Part A: Applied Science and Manufacturing, 2014, 64, 139-146.	3.8	179
4	Preparation and properties of short natural fiber reinforced poly(lactic acid) composites. Transactions of Nonferrous Metals Society of China, 2009, 19, s651-s655.	1.7	144
5	Readily recyclable, high-performance thermosetting materials based on a lignin-derived spiro diacetal trigger. Journal of Materials Chemistry A, 2019, 7, 1233-1243.	5.2	142
6	Flameâ€retardancy and antiâ€dripping effects of intumescent flame retardant incorporating montmorillonite on poly(lactic acid). Polymers for Advanced Technologies, 2009, 20, 1114-1120.	1.6	103
7	High performances of plant fiber reinforced compositesâ€”A new insight from hierarchical microstructures. Composites Science and Technology, 2020, 194, 108151.	3.8	103
8	Functionalized multi-walled carbon nanotube for improving the flame retardancy of ramie/poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.8	86
9	Synthesis and characterization of biodegradable lactic acidâ€based polymers by chain extension. Polymer International, 2008, 57, 982-986.	1.6	84
10	Influence of functionalized graphene by grafted phosphorus containing flame retardant on the flammability of carbon fiber/epoxy resin (CF/ER) composite. Composites Science and Technology, 2016, 136, 76-84.	3.8	73
11	Catalyst-free malleable, degradable, bio-based epoxy thermosets and its application in recyclable carbon fiber composites. Composites Part B: Engineering, 2021, 211, 108654.	5.9	70
12	High-Performance, Biobased, Degradable Polyurethane Thermoset and Its Application in Readily Recyclable Carbon Fiber Composites. ACS Sustainable Chemistry and Engineering, 2020, 8, 11162-11170.	3.2	58
13	Effect of diisocyanates as compatibilizer on the properties of ramie/poly(lactic acid) (PLA) composites. Composites Part A: Applied Science and Manufacturing, 2015, 76, 20-27.	3.8	53
14	Hygrothermal aging and structural damage of a jute/poly (lactic acid) (PLA) composite observed by X-ray tomography. Composites Science and Technology, 2019, 173, 15-23.	3.8	48
15	Phosphorus-containing diacid and its application in jute/poly(lactic acid) composites: Mechanical, thermal and flammability properties. Composites Part A: Applied Science and Manufacturing, 2017, 97, 60-66.	3.8	45
16	Influence of poly(butylenes adipate-co-terephthalate) on the properties of the biodegradable composites based on ramie/poly(lactic acid). Composites Part A: Applied Science and Manufacturing, 2014, 58, 24-29.	3.8	44
17	Interlaminar toughening in flax fiber-reinforced composites interleaved with carbon nanotube buckypaper. Journal of Reinforced Plastics and Composites, 2014, 33, 1859-1868.	1.6	41
18	An overview of structural-functional-integrated composites based on the hierarchical microstructures of plant fibers. Advanced Composites and Hybrid Materials, 2018, 1, 231-246.	9.9	39

#	Article	IF	Citations
19	Effect of Hydrothermal Aging on Injection Molded Short Jute Fiber Reinforced Poly(Lactic Acid) (PLA) Composites. Journal of Polymers and the Environment, 2018, 26, 3176-3186.	2.4	34
20	Outlook on ecologically improved composites for aviation interior and secondary structures. CEAS Aeronautical Journal, 2018, 9, 533-543.	0.9	33
21	Reinforcement of denture base resin with short vegetable fiber. Dental Materials, 2013, 29, 1273-1279.	1.6	32
22	Degradable benzyl cyclic acetal epoxy monomers with low viscosity: Synthesis, structure-property relationships, application in recyclable carbon fiber composite. Composites Science and Technology, 2022, 219, 109243.	3.8	30
23	Piezoelectric Nanogenerators Based on Electrospun PVDF-Coated Mats Composed of Multilayer Polymer-Coated BaTiO₃ Nanowires. ACS Applied Nano Materials, 2022, 5, 8417-8428.	2.4	25
24	Synthesis and characterization of poly(lactic acid) and aliphatic polycarbonate copolymers. Polymer International, 2009, 58, 1058-1064.	1.6	23
25	Water absorption and hygrothermal aging behavior of short ramie fiberâ€reinforced poly(lactic acid) composites. Polymer Composites, 2018, 39, 1098-1104.	2.3	23
26	Enhanced mechanical properties and flame retardancy of short jute fiber/poly(lactic acid) composites with phosphorus-based compound. Science China Technological Sciences, 2017, 60, 1716-1723.	2.0	20
27	Studies on morphologies and thermal properties of poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (acid)/polycapro 29, 1145-1151.	2.3	19
28	3D finite element modeling of water diffusion behavior of jute/PLA composite based on X-ray computed tomography. Composites Science and Technology, 2020, 199, 108313.	3.8	17
29	Recent Advances in Self-Powered Piezoelectric and Triboelectric Sensors: From Material and Structure Design to Frontier Applications of Artificial Intelligence. Sensors, 2021, 21, 8422.	2.1	14
30	Bending analysis of a functionally graded piezoelectric cantilever beam. Science in China Series G: Physics, Mechanics and Astronomy, 2007, 50, 97-108.	0.2	13
31	Novel DOPO-Modified Graphene: Synthesis and Characterization. Journal of Nanoscience and Nanotechnology, 2017, 17, 4894-4900.	0.9	12
32	Effect of saline and alkaline solution aging on the properties of jute/poly(lactic acid) composites. Polymer Composites, 2020, 41, 1003-1012.	2.3	11
33	Prediction of crucial nuclear power plant parameters using long shortâ€term memory neural networks. International Journal of Energy Research, 2022, 46, 21467-21479.	2.2	9
34	Preparation and characterization of biodegradable poly(lactic acid)â€blockâ€poly(Îµâ€caprolactone) multiblock copolymer. Polymers for Advanced Technologies, 2010, 21, 183-188.	1.6	7
35	Soil degradation behavior of ramie/thermoset poly(lactic acid) composites. Journal of Polymer Research, 2021, 28, 1.	1.2	7
36	Biodegradation of jute/poly(lactic acid) composites by fungi. Science China Technological Sciences, 2018, 61, 1705-1712.	2.0	5

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37	Functionalization of Graphene and Its Influence on Mechanical Properties and Flame Retardancy of Jute/Poly(lactic acid) Composite. Journal of Nanoscience and Nanotechnology, 2019, 19, 7074-7082.	0.9	3
38	Biodegradable Star-Shaped Poly(lactic acid): Synthesis, Characterization and Its Reaction Kinetics. Journal of Polymers and the Environment, 2022, 30, 3121-3128.	2.4	3