

Shibing Bai

List of Publications by Year in descending order

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papers

780
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430874

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857
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of Morphologically Controlled Composites with High Thermal Conductivity and Dielectric Performance from Aluminum Nanoflake and Recycled Plastic Package. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3388-3399.	8.0	63
2	Sustainable packaging biocomposites from polylactic acid and wheat straw: Enhanced physical performance by solid state shear milling process. <i>Composites Science and Technology</i> , 2018, 158, 34-42.	7.8	62
3	High-performance thermal and electrical conductive composites from multilayer plastic packaging waste and expanded graphite. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11209-11218.	5.5	62
4	Fabrication of a high-density polyethylene/graphene composite with high exfoliation and high mechanical performance via solid-state shear milling. <i>RSC Advances</i> , 2015, 5, 93697-93705.	3.6	61
5	Morphology, mechanical and thermal oxidative aging properties of HDPE composites reinforced by nonmetals recycled from waste printed circuit boards. <i>Waste Management</i> , 2016, 57, 168-175.	7.4	53
6	Synergistic effect of expandable graphite and melamine phosphate on flame-retardant polystyrene. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45474.	2.6	45
7	Preparation of fine fiberglass-resin powders from waste printed circuit boards by different milling methods for reinforcing polypropylene composites. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	38
8	Recycling of automotive shredder residue by solid state shear milling technology. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 57, 143-153.	5.8	33
9	High thermal conductivity polylactic acid composite for 3D printing: Synergistic effect of graphene and alumina. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1291-1299.	3.2	32
10	Production of Value-Added Composites from Aluminum-Plastic Package Waste via Solid-State Shear Milling Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4282-4293.	6.7	31
11	Flame-retardant mechanism of expandable polystyrene foam with a macromolecular nitrogen-phosphorus intumescent flame retardant. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	29
12	Novel Application of Mechanochemistry in Waste Epoxy Recycling via Solid-State Shear Milling. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11778-11789.	6.7	28
13	Structure and performance of Poly(vinyl alcohol)/wood powder composite prepared by thermal processing and solid state shear milling technology. <i>Composites Part B: Engineering</i> , 2016, 99, 373-380.	12.0	27
14	Reaction mechanism of thermally-induced electric conduction of poly(vinyl alcohol)-silver nitrate hybrid films. <i>RSC Advances</i> , 2016, 6, 56728-56737.	3.6	24
15	Facile preparation of poly(vinyl alcohol)/graphene oxide nanocomposites and their foaming behavior in supercritical carbon dioxide. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 675-684.	7.6	23
16	Production of spherical polymeric composite powder for selective laser sintering via plasma assisted solid state shear milling: From theory to piezoelectric application. <i>Chemical Engineering Journal</i> , 2021, 415, 129035.	12.7	22
17	Structures and properties of waste silicone cross-linked polyethylene de-cross-linked selectively by solid-state shear mechanochemical technology. <i>Journal of Vinyl and Additive Technology</i> , 2019, 25, 149-158.	3.4	21
18	Trash into treasure: stiff, thermally insulating and highly conductive carbon aerogels from leather wastes for high-performance electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2298-2310.	5.5	21

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19	A novel method to prepare microcellular poly(vinyl alcohol) foam based on thermal processing and supercritical fluid. <i>Polymers for Advanced Technologies</i> , 2017, 28, 285-292.	3.2	18
20	Preparation of halogen-free flame-retardant expandable polystyrene foam by suspension polymerization. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47779.	2.6	16
21	Fabrication of an ultralight flame-induced high conductivity hybrid sponge based on poly (vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 15	7.0	15
22	Preparation of composites based on recycled polypropylene and automotive shredder residue. <i>Polymer International</i> , 2018, 67, 936-945.	3.1	14
23	Production of sustainable wood-plastic composites from the nonmetals in waste printed circuit boards: Excellent physical performance achieved by solid-state shear milling. <i>Composites Science and Technology</i> , 2020, 200, 108411.	7.8	14
24	A one-step method to manufacture biodegradable poly (butylene adipate-co-terephthalate) bead foam parts. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2007-2019.	3.2	12
25	Recycling and reuse of waste artificial turf <i>via</i> solid-state shear milling technology. <i>RSC Advances</i> , 2017, 7, 54117-54127.	3.6	7
26	Decrosslinking Effect of Mechanochemistry on Waste Acrylonitrile Butadiene Rubber/Poly (Vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 526-536.	1.6	3
27	Preparation of Ag/C fiber with nanostructure through in situ thermally induced redox reaction between PVA and AgNO ₃ and its catalysis for 4-nitrophenol reduction. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1312-1320.	3.2	2
28	Using Asphalt as an Additive for Waste Cross-Linked Polyethylene Recycled Materials to Improve Thermoplastic Processing. <i>ACS Omega</i> , 2022, 7, 19113-19121.	3.5	2