

Pengju Liu

List of Publications by Year in descending order

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32
papers

1,073
citations

471509

17
h-index

414414

32
g-index

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all docs

32
docs citations

32
times ranked

852
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly stretchable electromagnetic interference (EMI) shielding segregated polyurethane/carbon nanotube composites fabricated by microwave selective sintering. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7938-7946.	5.5	128
2	Exploiting the piezoresistivity and EMI shielding of polyetherimide/carbon nanotube foams by tailoring their porous morphology and segregated CNT networks. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 124, 105463.	7.6	92
3	A temperature-induced conductive coating via layer-by-layer assembly of functionalized graphene oxide and carbon nanotubes for a flexible, adjustable response time flame sensor. <i>Chemical Engineering Journal</i> , 2018, 353, 115-125.	12.7	89
4	A novel poly (vinyl alcohol)/poly (ethylene glycol) scaffold for tissue engineering with a unique bimodal open-celled structure fabricated using supercritical fluid foaming. <i>Scientific Reports</i> , 2019, 9, 9534.	3.3	84
5	Microwave assisted sinter molding of polyetherimide/carbon nanotubes composites with segregated structure for high-performance EMI shielding applications. <i>Composites Science and Technology</i> , 2019, 182, 107753.	7.8	65
6	Thermal melt processing to prepare halogen-free flame retardant poly(vinyl alcohol). <i>Polymer Degradation and Stability</i> , 2014, 109, 261-269.	5.8	63
7	A novel structural design of shielding capsule to prepare high-performance and self-healing MXene-based sponge for ultra-efficient electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , 2021, 426, 130729.	12.7	63
8	Enhanced electromagnetic interference shielding and mechanical properties of segregated polymer/carbon nanotube composite via selective microwave sintering. <i>Composites Science and Technology</i> , 2020, 199, 108355.	7.8	50
9	Microwave-induced segregated composite network with MXene as interfacial solder for ultra-efficient electromagnetic interference shielding and anti-dripping. <i>Chemical Engineering Journal</i> , 2021, 425, 131699.	12.7	46
10	Facile Fabrication of Multifunctional Poly(ethylene-co-octene)/Carbon Nanotube Foams Based on Tunable Conductive Network. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1934-1943.	3.7	33
11	Selective Microwave Sintering to Prepare Multifunctional Poly(ether imide) Bead Foams Based on Segregated Carbon Nanotube Conductive Network. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5838-5847.	3.7	30
12	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
13	Fabrication of poly (vinyl alcohol)/graphene nanocomposite foam based on solid state shearing milling and supercritical fluid technology. <i>Materials and Design</i> , 2017, 134, 121-131.	7.0	23
14	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
15	Microwave-assisted foaming and sintering to prepare lightweight high-strength polystyrene/carbon nanotube composite foams with an ultralow percolation threshold. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9702-9711.	5.5	23
16	Preparation of high-strength and lightweight microcellular polysulfone foam with a segregated CNT network for excellent electromagnetic shielding. <i>RSC Advances</i> , 2020, 10, 11994-12003.	3.6	20
17	Microwave-assisted selective heating to rapidly construct a nano-cracked hollow sponge for stretch sensing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9391-9400.	5.5	19
18	Highly thermally conductive and superior electromagnetic interference shielding composites via in situ microwave-assisted reduction/exfoliation of expandable graphite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106517.	7.6	19

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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	Facile One-Step Approach to Manufacture Environmentally Friendly Poly(vinyl alcohol) Bead Foam Products. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 2962-2970.	3.7	17
21	Microwave-Assisted Sintering to Rapidly Construct a Segregated Structure in Low-Melt-Viscosity Poly(Lactic Acid) for Electromagnetic Interference Shielding. <i>ACS Omega</i> , 2020, 5, 26116-26124.	3.5	16
22	Enhanced Interfacial Adhesion of Polystyrene Bead Foams by Microwave Sintering for Microplastics Reduction. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 8812-8820.	3.7	16
23	Fabrication of an ultralight flame-induced high conductivity hybrid sponge based on poly (vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 10	7.0	15
24	Improved mechanical and electromagnetic interference shielding performance of segregated UHMWPE/CNTs via microwave-assisted sintering. <i>High Performance Polymers</i> , 2020, 32, 1140-1149.	1.8	15
25	Carbon nanotubes in microwave-assisted foaming and sinter molding of high performance polyetherimide bead foam products. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 262, 114727.	3.5	14
26	Microwave-assisted reduction and sintering to construct hybrid networks of reduced graphene oxide and MXene for electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 157, 106928.	7.6	13
27	Fabrication and cell morphology of a microcellular poly(ether imide)â€œcarbon nanotube composite foam with a threeâ€dimensional shape. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47501.	2.6	10
28	An ultrafast and clean method to manufacture poly(vinyl alcohol) bead foam products. <i>Polymers for Advanced Technologies</i> , 2021, 32, 210-219.	3.2	10
29	Facile fabrication of chrome-tanned leather wastes/natural rubber composite: Mechanochemical de-crosslinking effect on collagen fibers and chrome complexation enabled in-situ compatibilization. <i>Composites Science and Technology</i> , 2021, 214, 108998.	7.8	10
30	Interfacial flame retardance of Poly(vinyl alcohol) bead foams through surface plasticizing and microwave selective sintering. <i>Applied Surface Science</i> , 2021, 551, 149416.	6.1	8
31	Electrically Conductive and All-Weather Materials from Waste Cross-Linked Polyethylene Cables for Electromagnetic Interference Shielding. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3610-3619.	3.7	7
32	Highâ€strength and antistatic <sc>PET</sc>/<sc>CNTs</sc> bead foams prepared by <sc>scCO₂</sc> foaming and microwave sintering. <i>Polymers for Advanced Technologies</i> , 2022, 33, 2211-2220.	3.2	5