

Bin Zhang

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48
papers

1,363
citations

20
h-index

36
g-index

49
ext. papers

1,752
ext. citations

4
avg, IF

4.88
L-index

#	Paper	IF	Citations
48	Morphology-Controlled Synthesis and Electromagnetic Properties of Porous Fe ₃ O ₄ Nanostructures from Iron Alkoxide Precursors. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12350-12357	3.8	203
47	Microwave absorption enhancement of Fe ₃ O ₄ /polyaniline core/shell hybrid microspheres with controlled shell thickness. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 1909-1916	2.9	118
46	Synergistic flame-retardant effect of expandable graphite and phosphorus-containing compounds for epoxy resin: Strong bonding of different carbon residues. <i>Polymer Degradation and Stability</i> , 2016 , 128, 89-98	4.7	97
45	Synthesis of a novel phosphorus-nitrogen type flame retardant composed of maleimide, triazine-trione, and phosphaphenanthrene and its flame retardant effect on epoxy resin. <i>Polymer Degradation and Stability</i> , 2016 , 131, 106-113	4.7	80
44	Enhanced microwave absorption properties of epoxy composites reinforced with Fe ₅₀ Ni ₅₀ -functionalized graphene. <i>Journal of Alloys and Compounds</i> , 2015 , 653, 14-21	5.7	71
43	Wire-in-tube ZnO@carbon by molecular layer deposition: Accurately tunable electromagnetic parameters and remarkable microwave absorption. <i>Chemical Engineering Journal</i> , 2020 , 382, 122860	14.7	61
42	High-performance microwave absorption epoxy composites filled with hollow nickel nanoparticles modified graphene via chemical etching method. <i>Composites Science and Technology</i> , 2019 , 176, 54-63	8.6	52
41	Synthesis of a novel reactive flame retardant containing phosphaphenanthrene and piperidine groups and its application in epoxy resin. <i>Polymer Degradation and Stability</i> , 2017 , 146, 250-259	4.7	49
40	Combined use of lightweight magnetic Fe ₃ O ₄ -coated hollow glass spheres and electrically conductive reduced graphene oxide in an epoxy matrix for microwave absorption. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 401, 209-216	2.8	48
39	Flame-retardant performance and mechanism of epoxy thermosets modified with a novel reactive flame retardant containing phosphorus, nitrogen, and sulfur. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 497-506	3.2	48
38	Design of controlled-morphology NiCo ₂ O ₄ with tunable and excellent microwave absorption performance. <i>Ceramics International</i> , 2020 , 46, 7833-7841	5.1	43
37	Facile synthesis of Co-embedded porous spherical carbon composites derived from Co ₃ O ₄ /ZIF-8 compounds for broadband microwave absorption. <i>Composites Science and Technology</i> , 2020 , 195, 108206	8.6	35
36	Synthesis of s-triazine based tri-imidazole derivatives and their application as thermal latent curing agents for epoxy resin. <i>Materials Letters</i> , 2018 , 216, 127-130	3.3	31
35	Synergistic effect between a novel triazine-based flame retardant and DOPO/HPCP on epoxy resin. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 2774-2783	3.2	29
34	One-step preparation of CoFe ₂ O ₄ /FeCo/graphite nanosheets hybrid composites with tunable microwave absorption performance. <i>Ceramics International</i> , 2020 , 46, 12353-12363	5.1	28
33	Microwave absorption properties of lightweight absorber based on Fe ₅₀ Ni ₅₀ -coated poly(acrylonitrile) microspheres and reduced graphene oxide composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 413, 81-88	2.8	27
32	Enhanced electromagnetic interference shielding properties of carbon fiber veil/Fe ₃ O ₄ nanoparticles/epoxy multiscale composites. <i>Materials Research Express</i> , 2017 , 4, 126303	1.7	26

31	Enhanced microwave absorption properties of epoxy composites containing graphene decorated with core-shell Fe ₃ O ₄ @polypyrrole nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 12122-12131	2.1	23
30	A phosphorus-containing phenolic derivative and its application in benzoxazine resins: Curing behavior, thermal, and flammability properties. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	22
29	Synergistic effect of polyhedral iron-cobalt alloys and graphite nanosheets with excellent microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154426	5.7	21
28	Synthesis of Fe@Ni nanoparticles-modified graphene/epoxy composites with enhanced microwave absorption performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 3348-3357	2.1	20
27	Construction of sandwich-like NiCo ₂ O ₄ /Graphite nanosheets/NiCo ₂ O ₄ heterostructures for a tunable microwave absorber. <i>Ceramics International</i> , 2020 , 46, 19293-19301	5.1	19
26	Preparation and flame retardancy of DOPO-based epoxy resin containing bismaleimide. <i>High Performance Polymers</i> , 2016 , 28, 1090-1095	1.6	17
25	Synthesis of core-shell Fe ₃ O ₄ @ppy/graphite nanosheets composites with enhanced microwave absorption performance. <i>Materials Letters</i> , 2019 , 239, 136-139	3.3	17
24	Electromagnetic interference shielding properties of nickel-coated carbon fiber veil/acid-functionalized MWCNTs/epoxy multiscale composites. <i>Journal of Reinforced Plastics and Composites</i> , 2015 , 34, 1029-1039	2.9	15
23	Double-shell PANI@Ag hollow microspheres and graphene dispersed in epoxy with enhanced microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 9785-9797	2.1	13
22	Facile synthesis of graphene oxide-wrapped CNFs as high-performance microwave absorber. <i>Ceramics International</i> , 2019 , 45, 12895-12902	5.1	13
21	Rational construction of porous N-doped FeO films on porous graphene foams by molecular layer deposition for tunable microwave absorption. <i>Journal of Colloid and Interface Science</i> , 2021 , 598, 45-55	9.3	13
20	ZIF-67-derived micron-sized cobalt-doped porous carbon-based microwave absorbers with g-C ₃ N ₄ as template. <i>Ceramics International</i> , 2021 , 47, 11506-11513	5.1	12
19	Enhanced microwave absorption property of epoxy nanocomposites based on PANI@Fe ₃ O ₄ @CNFs nanoparticles with three-phase heterostructure. <i>Materials Research Express</i> , 2018 , 5, 025304	1.7	11
18	Low content Ag-coated poly(acrylonitrile) microspheres and graphene for enhanced microwave absorption performance epoxy composites. <i>Materials Research Express</i> , 2018 , 5, 045040	1.7	10
17	Synthesis of a novel reactive flame retardant containing phosphaphenanthrene and triazine-trione groups and its application in unsaturated polyester resin. <i>Materials Research Express</i> , 2018 , 5, 035306	1.7	10
16	Enhanced microwave absorption properties of epoxy composites containing graphite nanosheets@Fe ₃ O ₄ decorated comb-like MnO ₂ nanoparticles. <i>Materials Research Express</i> , 2018 , 5, 056305	1.7	10
15	Study on properties of flame-retardant cyanate esters modified with DOPO and triazine compounds. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 2574-2582	3.2	10
14	A facile way to enhance microwave absorption properties of rGO and Fe ₃ O ₄ based composites by multi-layered structure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 146, 106411	8.4	8

13	Coprecipitation synthesis of hollow poly(acrylonitrile) microspheres@CoFe ₂ O ₄ with graphene as lightweight microwave absorber. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 3337-3348	2.1	7
12	3D-structured assembly of RGO and Ag nanowires for enhanced microwave absorption performance epoxy composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 10321-10331	3.1	7
11	Preparation of MnO ₂ @CNFs composites and their tunable microwave absorption properties. <i>Materials Research Express</i> , 2019 , 6, 075005	1.7	7
10	Design of hierarchical 1D/2D NiCo ₂ O ₄ as high-performance microwave absorber with strong loss and wide absorbing frequency. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 16287-16297	3.1	7
9	Preparation of flame-retardant cyanate ester with low dielectric constants and dissipation factors modified with novel phosphorus-contained Schiff base. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 3153-3164	4.1	6
8	Facile Synthesis of Cobalt-Doped Porous Composites with Amorphous Carbon/Zn Shell for High-Performance Microwave Absorption. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
7	Preparation of flame-retardant cyanate ester resin combined with phosphorus-containing maleimide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 132, 1617-1628	4.1	4
6	Intense shear induced caterpillar-like continuous hierarchical fiber enhanced poly(butylene succinate) biocomposite towards strong mechanical performance. <i>Composites Part B: Engineering</i> , 2020 , 200, 108273	10	3
5	Enhanced microwave absorption properties of nickel-coated carbon fiber/glass fiber hybrid epoxy composites-towards an industrial reality. <i>Materials Research Express</i> , 2019 , 6, 126324	1.7	3
4	Acrylate copolymers as impact modifier for epoxy resin. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015 , 30, 1210-1214	1	2
3	Facile fabrication of single-component flame-retardant epoxy resin with rapid curing capacity and satisfied thermal resistance. <i>Reactive and Functional Polymers</i> , 2021 , 105103	4.6	2
2	Remarkable microwave heating performance of MWCNTs/polypropylene composites verified by electromagnetic-thermal coupling experiment and simulation. <i>Composites Science and Technology</i> , 2022 , 223, 109428	8.6	1
1	Toughening of Epoxy Resin Modified with In Situ Polymerized Acrylate Copolymer. <i>Advanced Materials Research</i> , 2014 , 910, 70-73	0.5	