

Fanbin Meng

List of Publications by Year in descending order

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44
papers

3,825
citations

172386

29
h-index

233338

45
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46
all docs

46
docs citations

46
times ranked

2428
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-based microwave absorbing composites: A review and prospective. <i>Composites Part B: Engineering</i> , 2018, 137, 260-277.	5.9	574
2	Interface Modulating CNTs@PANI Hybrids by Controlled Unzipping of the Walls of CNTs To Achieve Tunable High-Performance Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12142-12153.	4.0	299
3	Carbonized Design of Hierarchical Porous Carbon/Fe ₃ O ₄ @Fe Derived from Loofah Sponge to Achieve Tunable High-Performance Microwave Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11801-11810.	3.2	256
4	Growth of NiAl ₂ O ₄ Layered Double Hydroxide on Graphene toward Excellent Anticorrosive Microwave Absorption Application. <i>Advanced Science</i> , 2021, 8, 2002658.	5.6	227
5	Electrospun generation of Ti ₃ C ₂ T _x MXene@graphene oxide hybrid aerogel microspheres for tunable high-performance microwave absorption. <i>Chemical Engineering Journal</i> , 2020, 391, 123512.	6.6	212
6	A review of three-dimensional graphene-based aerogels: Synthesis, structure and application for microwave absorption. <i>Composites Part B: Engineering</i> , 2021, 211, 108642.	5.9	204
7	Synergistic Enhancement of Microwave Absorption Using Hybridized Polyaniline@helical CNTs with Dual Chirality. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15711-15718.	4.0	173
8	Recent advances in graphene-based films for electromagnetic interference shielding: Review and future prospects. <i>Carbon</i> , 2021, 180, 163-184.	5.4	147
9	Multiaxial electrospun generation of hollow graphene aerogel spheres for broadband high-performance microwave absorption. <i>Nano Research</i> , 2020, 13, 477-484.	5.8	135
10	Design of porous C@Fe ₃ O ₄ hybrid nanotubes with excellent microwave absorption. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2510-2516.	1.3	111
11	Generation of graphene-based aerogel microspheres for broadband and tunable high-performance microwave absorption by electrospinning-freeze drying process. <i>Nano Research</i> , 2018, 11, 2847-2861.	5.8	109
12	Decoration of basalt fibers with hybrid Fe ₃ O ₄ microspheres and their microwave absorption application in bisphthalonitrile composites. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2286-2296.	5.2	108
13	Wheat straw-derived magnetic carbon foams: In-situ preparation and tunable high-performance microwave absorption. <i>Nano Research</i> , 2019, 12, 1423-1429.	5.8	99
14	In situ intercalation polymerization approach to polyamide-6/graphite nanoflakes for enhanced thermal conductivity. <i>Composites Part B: Engineering</i> , 2017, 117, 165-173.	5.9	92
15	3D porous biomass-derived carbon materials: biomass sources, controllable transformation and microwave absorption application. <i>Green Chemistry</i> , 2022, 24, 647-674.	4.6	85
16	Core-shell heterogeneous graphene-based aerogel microspheres for high-performance broadband microwave absorption via resonance loss and sequential attenuation. <i>Chemical Engineering Journal</i> , 2022, 433, 134496.	6.6	83
17	Multifunctional antimony tin oxide/reduced graphene oxide aerogels with wideband microwave absorption and low infrared emissivity. <i>Composites Part B: Engineering</i> , 2022, 231, 109565.	5.9	77
18	Well-matched impedance of polypyrrole-loaded cotton non-woven fabric/polydimethylsiloxane composite for extraordinary microwave absorption. <i>Composites Science and Technology</i> , 2020, 197, 108246.	3.8	74

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19	Two birds with one stone: Graphene oxide@ulfonated polyaniline nanocomposites towards high-performance electromagnetic wave absorption and corrosion protection. <i>Composites Science and Technology</i> , 2021, 204, 108630.	3.8	68
20	Hybridization-Induced Polarization of Graphene Sheets by Intercalation-Polymerized Polyaniline toward High Performance of Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17100-17107.	4.0	64
21	Intercalating Hybrids of Sandwich-like Fe ₃ O ₄ –Graphite: Synthesis and Their Synergistic Enhancement of Microwave Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16744-16753.	3.2	63
22	Two birds with one stone: Superhelical chiral polypyrrole towards high-performance electromagnetic wave absorption and corrosion protection. <i>Chemical Engineering Journal</i> , 2022, 427, 131582.	6.6	62
23	Hierarchical composites of polypyrrole/graphene oxide synthesized by in situ intercalation polymerization for high efficiency and broadband responses of electromagnetic absorption. <i>Composites Science and Technology</i> , 2016, 127, 71-78.	3.8	57
24	Multifunctional aramid nanofibers reinforced RGO aerogels integrated with high-efficiency microwave absorption, sound absorption and heat insulation performance. <i>Journal of Materials Science and Technology</i> , 2022, 130, 166-175.	5.6	45
25	Growth of Fe ₃ O ₄ nanosheet arrays on graphene by a mussel-inspired polydopamine adhesive for remarkable enhancement in electromagnetic absorptions. <i>RSC Advances</i> , 2015, 5, 101121-101126.	1.7	41
26	Ultrafast physical bacterial inactivation and photocatalytic self-cleaning of ZnO nanoarrays for rapid and sustainable bactericidal applications. <i>Science of the Total Environment</i> , 2020, 738, 139714.	3.9	38
27	Ultrathin flexible electrospun carbon nanofibers reinforced graphene microgasbags films with three-dimensional conductive network toward synergetic enhanced electromagnetic interference shielding. <i>Journal of Materials Science and Technology</i> , 2022, 111, 57-65.	5.6	37
28	Room temperature dissolution of cellulose in tetra-butylammonium hydroxide aqueous solvent through adjustment of solvent amphiphilicity. <i>Cellulose</i> , 2017, 24, 49-59.	2.4	34
29	Glowing stereocomplex biopolymers are generating power: polylactide/carbon quantum dot hybrid nanofibers with high piezoresponse and multicolor luminescence. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1810-1823.	5.2	31
30	Intercalation Polymerization Approach for Preparing Graphene/Polymer Composites. <i>Polymers</i> , 2018, 10, 61.	2.0	28
31	Hyperbranched copper phthalocyanine decorated Fe ₃ O ₄ microspheres with extraordinary microwave absorption properties. <i>RSC Advances</i> , 2015, 5, 7018-7022.	1.7	25
32	A temperature-responsive composite for adaptive microwave absorption. <i>Chemical Engineering Journal</i> , 2022, 427, 131746.	6.6	25
33	High-purity helical carbon nanotubes by trace-water-assisted chemical vapor deposition: Large-scale synthesis and growth mechanism. <i>Nano Research</i> , 2018, 11, 3327-3339.	5.8	24
34	Ultra-robust and high-toughness graphene oxide papers via synergistic strengthening by addition of carbon-nanotubes and copper ions. <i>Carbon</i> , 2019, 147, 490-500.	5.4	21
35	Ultrastrong Carbon Nanotubes/Graphene Papers via Multiple – Cross-Linking. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47811-47819.	4.0	21
36	Remarkable Improvement in the Mechanical Properties of Epoxy Composites Achieved by a Small Amount of Modified Helical Carbon Nanotubes. <i>Polymers</i> , 2018, 10, 1103.	2.0	19

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37	Regenerated and rotation-induced cellulose-wrapped oriented CNT fibers for wearable multifunctional sensors. <i>Nanoscale</i> , 2020, 12, 16305-16314.	2.8	19
38	Coatings Comprised of Graphene Oxide Decorated with Helical Polypyrrole Nanofibers for Microwave Absorption and Corrosion Protection. <i>ACS Applied Nano Materials</i> , 2022, 5, 9780-9791.	2.4	10
39	Electric-field assisted growth and mechanical bactericidal performance of ZnO nanoarrays with gradient morphologies. <i>Nanotechnology Reviews</i> , 2019, 8, 315-326.	2.6	6
40	Porous VGCF@polyaniline nanohybrids with manipulated porous structures for effective microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 12830-12841.	1.1	6
41	Cure behaviors of furfuryl alcohol/epoxy/methyltetrahydrophthalic anhydride and their enhanced mechanical and anti-acid properties of basalt fiber reinforced composites. <i>Composites Part B: Engineering</i> , 2018, 154, 263-271.	5.9	5
42	Polyphenylene sulfide-coated wrench composites by nanopinning effect. <i>Nanotechnology Reviews</i> , 2021, 10, 166-177.	2.6	3
43	A mini-review of three-dimensional network topological structure nanocomposites: Preparation and mechanical properties. <i>Nanotechnology Reviews</i> , 2021, 10, 1425-1437.	2.6	2
44	Preparation of TiO ₂ Nanotube Array on the Pure Titanium Surface by Anodization Method and Its Hydrophilicity. <i>Scanning</i> , 2021, 2021, 1-7.	0.7	1