Biomass-Derived Porous Carbon-Based Nanostructures

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Citation Report

#	Article	IF	Citations
1	Synthesis and microwave absorption of Ti3C2Tx MXene with diverse reactant concentration, reaction time, and reaction temperature. Ceramics International, 2019, 45, 23600-23610.	2.3	37
2	Hollow porous Fe₂O₃ microspheres wrapped by reduced graphene oxides with high-performance microwave absorption. Journal of Materials Chemistry C, 2019, 7, 11167-11176.	2.7	59
3	Achieving MOF-derived one-dimensional porous ZnO/C nanofiber with lightweight and enhanced microwave response by an electrospinning method. Journal of Alloys and Compounds, 2019, 806, 983-991.	2.8	94
4	Space-Confined Synthesis of Coreâ€“Shell BaTiO₃@Carbon Microspheres as a High-Performance Binary Dielectric System for Microwave Absorption. ACS Applied Materials & Interfaces, 2019, 11, 31182-31190.	4.0	110
5	Boosted Interfacial Polarization from Multishell TiO₂@Fe₃O₄@PPy Heterojunction for Enhanced Microwave Absorption. Small, 2019, 15, e1902885.	5.2	293
6	Facile fabrication of SBA-15/polypyrrole composites with long-rod shape for enhanced electromagnetic wave absorption. Microporous and Mesoporous Materials, 2019, 288, 109584.	2.2	16
7	Coreâ€“shell structure BaFe12O19@PANI composites with thin matching thickness and effective microwave absorption properties. Journal of Materials Science: Materials in Electronics, 2019, 30, 14344-14354.	1.1	17
8	One-pot solvothermal synthesis of Fe/Fe3O4 composites with broadband microwave absorption. Journal of Alloys and Compounds, 2019, 803, 818-825.	2.8	23
9	Coreâ€“Shell CoNi@Graphitic Carbon Decorated on B,N-Codoped Hollow Carbon Polyhedrons toward Lightweight and High-Efficiency Microwave Attenuation. ACS Applied Materials & Interfaces, 2019, 11, 25624-25635.	4.0	363
10	Assembly of CoNi nanoparticles on Ketjenblack carbon with superior performance and optimized impedance matching for electromagnetic wave absorption. Journal of Alloys and Compounds, 2019, 798, 790-799.	2.8	8
11	Novel two-dimensional Ti3C2TX/Ni-spheres hybrids with enhanced microwave absorption properties. Ceramics International, 2019, 45, 22880-22888.	2.3	69
12	Fabrication of nitrogen-doped cobalt oxide/cobalt/carbon nanocomposites derived from heterobimetallic zeolitic imidazolate frameworks with superior microwave absorption properties. Composites Part B: Engineering, 2019, 178, 107518.	5.9	58
13	Surface modification and microwave absorption properties of lightweight CNT absorbent. Journal of Materials Science: Materials in Electronics, 2019, 30, 21048-21058.	1.1	14
14	Fe₃O₄ Nanoflower-Carbon Nanotube Composites for Microwave Shielding. ACS Applied Nano Materials, 2019, 2, 5475-5482.	2.4	42
15	Lightweight Fe@C hollow microspheres with tunable cavity for broadband microwave absorption. Composites Part B: Engineering, 2019, 177, 107346.	5.9	89
16	Two-dimensional copper(i) thiophenolates: a well-constructed conductive Cuâ€“S network for excellent electromagnetic wave absorption. Journal of Materials Chemistry C, 2019, 7, 11621-11631.	2.7	10
17	Design and construction of lightweight C/Co heterojunction nanofibres for enhanced microwave absorption performance. Journal of Alloys and Compounds, 2019, 810, 151806.	2.8	43
18	Morphology-dependent electromagnetic wave absorbing properties of iron-based absorbers: one-dimensional, two-dimensional, and three-dimensional classification. EPJ Applied Physics, 2019, 87, 20901.	0.3	14

#	Article	IF	Citations
19	A review of metal oxide-related microwave absorbing materials from the dimension and morphology perspective. Journal of Materials Science: Materials in Electronics, 2019, 30, 10961-10984.	1.1	103
20	Extended Effective Frequency of Three-Dimensional Graphene with Sustainable Energy Attenuation. ACS Sustainable Chemistry and Engineering, 2019, 7, 10477-10483.	3.2	26
21	In situ deposition of Î±-Co nanoparticles on three-dimensional nitrogen-doped porous graphene foams as microwave absorbers. Journal of Materials Science: Materials in Electronics, 2019, 30, 13412-13424.	1.1	5
22	Synthesis of fish skin-derived 3D carbon foams with broadened bandwidth and excellent electromagnetic wave absorption performance. Carbon, 2019, 152, 827-836.	5.4	329
23	Microwave absorption enhancement of FeCoNi contributed by improved crystallinity and flake-like particles. Journal of Magnetism and Magnetic Materials, 2019, 490, 165488.	1.0	32
24	Performance enhanced electromagnetic wave absorber from controllable modification of natural plant fiber. RSC Advances, 2019, 9, 16690-16700.	1.7	26
25	Ultralight Cellular Foam from Cellulose Nanofiber/Carbon Nanotube Self-Assemblies for Ultrabroad-Band Microwave Absorption. ACS Applied Materials & Interfaces, 2019, 11, 22628-22636.	4.0	99
26	Fibrous Composites with Double-Continuous Conductive Network for Strong Low-Frequency Microwave Absorption. Industrial & Engineering Chemistry Research, 2019, 58, 11927-11938.	1.8	39
27	The design theory for a flat microwave absorber with a protective cover. Materials Research Express, 2019, 6, 086312.	0.8	4
28	Lightweight and High-Performance Microwave Absorber Based on 2D WS2â€“RGO Heterostructures. Nano-Micro Letters, 2019, 11, 38.	14.4	176
29	Direct large-scale fabrication of C-encapsulated B4C nanoparticles with tunable dielectric properties as excellent microwave absorbers. Carbon, 2019, 148, 504-511.	5.4	30
30	Engineering morphology configurations of hierarchical flower-like MoSe2 spheres enable excellent low-frequency and selective microwave response properties. Chemical Engineering Journal, 2019, 372, 390-398.	6.6	253
31	Constructing a tunable heterogeneous interface in bimetallic metal-organic frameworks derived porous carbon for excellent microwave absorption performance. Carbon, 2019, 148, 421-429.	5.4	100
32	Ultrathin and Light-Weight Graphene Aerogel with Precisely Tunable Density for Highly Efficient Microwave Absorbing. ACS Applied Materials & Interfaces, 2019, 11, 46386-46396.	4.0	97
33	Constructing Stacked Structure of S-Doped Carbon Layer-Encapsulated MoO₂ NPs with Dominated Dielectric Loss for Microwave Absorption. ACS Sustainable Chemistry and Engineering, 2019, 7, 19546-19555.	3.2	40
34	Enhanced microwave absorption performance from abundant polarization sites of ZnO nanocrystals embedded in CNTs via confined space synthesis. Nanoscale, 2019, 11, 22539-22549.	2.8	41
35	A biomass derived porous carbon for broadband and lightweight microwave absorption. Scientific Reports, 2019, 9, 18617.	1.6	42
36	Fe/N-Codoped Hollow Carbonaceous Nanospheres Anchored on Reduced Graphene Oxide for Microwave Absorption. ACS Applied Nano Materials, 2019, 2, 8063-8074.	2.4	40

#	Article	IF	Citations
37	Carbon nanocages with N-doped carbon inner shell and Co/N-doped carbon outer shell as electromagnetic wave absorption materials. Chemical Engineering Journal, 2020, 381, 122653.	6.6	408
38	Excellent microwave absorbing performance of the sandwich structure absorber Fe@B2O3/MoS2/Fe@B2O3 in the Ku-band and X-band. Chemical Engineering Journal, 2020, 382, 122804.	6.6	26
39	Electromagnetic wave absorption enhancement of double-layer structural absorbers based on carbon nanofibers and hollow Co2Y hexaferrite microfibers. Journal of Alloys and Compounds, 2020, 814, 152302.	2.8	30
40	Stable microwave absorber derived from 1D customized heterogeneous structures of Fe3N@C. Chemical Engineering Journal, 2020, 381, 122589.	6.6	170
41	Graphene oxide/carbon nanotubes/Co Fe3-O4 ternary nanocomposites: Controllable synthesis and their excellent microwave absorption capabilities. Journal of Alloys and Compounds, 2020, 813, 151996.	2.8	33
42	Covalently bonded Fe3O4@SiO2â^'reduced graphene oxide nanocomposites as high-efficiency electromagnetic wave absorbers. Ceramics International, 2020, 46, 5175-5184.	2.3	25
43	A facile strategy for the core-shell FeSiAl composites with high-efficiency electromagnetic wave absorption. Journal of Alloys and Compounds, 2020, 818, 152861.	2.8	16
44	Enhancement of the microwave absorption properties of PyC-SiCf/SiC composites by electrophoretic deposition of SiC nanowires on SiC fibers. Ceramics International, 2020, 46, 9303-9310.	2.3	30
45	Enhanced thermal performance of form-stable composite phase-change materials supported by novel porous carbon spheres for thermal energy storage. Journal of Energy Storage, 2020, 27, 101134.	3.9	35
46	An efficient high-frequency electromagnetic wave absorber: Nickel-N@Carbon composite. Journal of Alloys and Compounds, 2020, 814, 152171.	2.8	23
47	Hierarchical porous carbon electrode materials for supercapacitor developed from wheat straw cellulosic foam. Renewable Energy, 2020, 149, 208-216.	4.3	105
48	Microwave-assisted fabrication of sea cucumber-like hollow structured composite for high-performance electromagnetic wave absorption. Chemical Engineering Journal, 2020, 392, 123646.	6.6	45
49	Rational construction of Co NPs embedded N-doped carbon layer/ZrSBA-15 composites with hierarchical succulent-like nanostructures for enhanced microwave absorption. Microporous and Mesoporous Materials, 2020, 294, 109880.	2.2	11
50	Tunable Electromagnetic Wave Absorption of Supramolecular Isomerâ€Derived Nanocomposites with Different Morphology. Advanced Materials Interfaces, 2020, 7, 1901820.	1.9	65
51	Microwave absorption properties of Ag/NiFe2-xCexO4 characterized by an alternative procedure rather than the main stream method using â€œreflection lossâ€• Materials Chemistry and Physics, 2020, 243, 122615.	2.0	18
52	Polyimide-Based Foams: Fabrication and Multifunctional Applications. ACS Applied Materials & Interfaces, 2020, 12, 48246-48258.	4.0	61
53	Metal-organic polymer coordination materials derived Co/N-doped porous carbon composites for frequency-selective microwave absorption. Composites Part B: Engineering, 2020, 202, 108406.	5.9	137
54	One-step hydrothermal preparation of N-doped carbon spheres from peanut hull for efficient removal of Cr(VI). Journal of Environmental Chemical Engineering, 2020, 8, 104449.	3.3	35

#	Article	IF	Citations
55	Porous carbon materials for microwave absorption. Materials Advances, 2020, 1, 2631-2645.	2.6	60
56	Preparation of Ni/C porous fibers derived from jute fibers for high-performance microwave absorption. RSC Advances, 2020, 10, 36644-36653.	1.7	34
57	Solvent-Free Synthesis of Ultrafine Tungsten Carbide Nanoparticles-Decorated Carbon Nanosheets for Microwave Absorption. Nano-Micro Letters, 2020, 12, 153.	14.4	93
58	Assembling Nanoâ€“Microarchitecture for Electromagnetic Absorbers and Smart Devices. Advanced Materials, 2020, 32, e2002112.	11.1	259
59	Sustainable wood-based composites for microwave absorption and electromagnetic interference shielding. Journal of Materials Chemistry A, 2020, 8, 24267-24283.	5.2	145
60	Vacancies-engineered and heteroatoms-regulated N-doped porous carbon aerogel for ultrahigh microwave absorption. Carbon, 2020, 169, 276-287.	5.4	148
61	CoFe₂/BaTiO₃ Hybrid Nanofibers for Microwave Absorption. ACS Applied Nano Materials, 2020, 3, 8424-8437.	2.4	54
62	Evaluation of the size and medium effects on the microwave absorbing, magnetic, electromagnetic shielding, and optical properties using CuCo2S4 nanoparticles. Journal of Alloys and Compounds, 2020, 848, 156453.	2.8	45
63	Porous CoNi nanoalloy@N-doped carbon nanotube composite clusters with ultra-strong microwave absorption at a low filler loading. Journal of Materials Chemistry C, 2020, 8, 13712-13722.	2.7	58
64	Natural iron embedded hierarchically porous carbon with thinâ€“thickness and high-efficiency microwave absorption properties. RSC Advances, 2020, 10, 38989-38999.	1.7	6
65	Chestnut-Derived Activated Carbon as a Prospective Material for Energy Storage. Materials, 2020, 13, 4658.	1.3	19
66	Extremely facile and green synthesis of magnetic carbon composites drawn from natural bulrush for electromagnetic wave absorbing. Journal of Alloys and Compounds, 2020, 835, 155345.	2.8	46
67	Multifunctional Bulk Hybrid Foam for Infrared Stealth, Thermal Insulation, and Microwave Absorption. ACS Applied Materials & Interfaces, 2020, 12, 28727-28737.	4.0	209
68	Woodâ€Derived Carbon Materials and Lightâ€Emitting Materials. Advanced Materials, 2021, 33, e2000596.	11.1	75
69	Facile preparation of carbon nanosheet frameworks/magnetic nanohybrids with heterogeneous interface as an excellent microwave absorber. Journal of Alloys and Compounds, 2020, 838, 155586.	2.8	14
70	Production of hierarchical porous carbon nanosheets from cheap petroleum asphalt toward lightweight and high-performance electromagnetic wave absorbents. Carbon, 2020, 166, 218-226.	5.4	63
71	Inverse-opal-based carbon composite monoliths for microwave absorption applications. Carbon, 2020, 166, 328-338.	5.4	31
72	Self-assembled reduced graphene oxide/nickel nanofibers with hierarchical core-shell structure for enhanced electromagnetic wave absorption. Carbon, 2020, 167, 530-540.	5.4	80

#	Article	IF	Citations
73	Glycine-assisted solution combustion synthesis of NiCo2O4 electromagnetic wave absorber with wide absorption bandwidth. Ceramics International, 2020, 46, 22313-22320.	2.3	28
74	Natural aloe vera derived Pt supported N-doped porous carbon: A highly durable cathode catalyst of PEM fuel cell. International Journal of Hydrogen Energy, 2020, 45, 19267-19279.	3.8	32
75	Flower-like NiCo₂S₄ Microspheres Based on Nanosheet Self-Assembly Anchored on 3D Biomass-Derived Carbon for Efficient Microwave Absorption. ACS Sustainable Chemistry and Engineering, 2020, 8, 10230-10241.	3.2	52
76	Efficient Electromagnetic Wave Absorption of Porous CoOâ€“Co@RGO Composites with Optimized Impedance Matching Derived from Metal-Organic Frameworks. Nano, 2020, 15, 2050104.	0.5	6
77	Metalâ€“organic framework-derived C/Co/Co3O4 nanocomposites with excellent microwave absorption properties in low frequencies. Journal of Materials Science: Materials in Electronics, 2020, 31, 11700-11713.	1.1	18
78	Rational construction of hierarchical accordion-like Ni@porous carbon nanocomposites derived from metal-organic frameworks with enhanced microwave absorption. Carbon, 2020, 167, 364-377.	5.4	166
79	A Flexible and Lightweight Biomass-Reinforced Microwave Absorber. Nano-Micro Letters, 2020, 12, 125.	14.4	234
80	Engineering Phase Transformation of MoS₂/RGO by N-doping as an Excellent Microwave Absorber. ACS Applied Materials & Interfaces, 2020, 12, 16831-16840.	4.0	57
81	Electromagnetic wave absorption properties of SiC@SiO2 nanoparticles fabricated by a catalyst-free precursor pyrolysis method. Journal of Alloys and Compounds, 2020, 830, 154643.	2.8	26
82	Green synthesis of hierarchically porous carbons with tunable dielectric response for microwave absorption. Ceramics International, 2020, 46, 15447-15455.	2.3	48
83	Excellent lightweight carbon-based microwave absorbers derived from metalâ€“organic frameworks with tunable electromagnetic properties. Inorganic Chemistry Frontiers, 2020, 7, 1667-1675.	3.0	28
84	Rational construction of Co@C polyhedrons covalently-grafted on magnetic graphene as a superior microwave absorber. Journal of Alloys and Compounds, 2020, 843, 156031.	2.8	28
85	MOF-derived nanoporous carbon/Co/Co3O4/CNTs/RGO composite with hierarchical structure as a high-efficiency electromagnetic wave absorber. Journal of Alloys and Compounds, 2020, 846, 156215.	2.8	80
86	Conductive WS2-NS/CNTs hybrids based 3D ultra-thin mesh electromagnetic wave absorbers with excellent absorption performance. Applied Surface Science, 2020, 528, 147052.	3.1	116
87	Simultaneous enhancement of recoverable energy density and efficiency of lead-free relaxor-ferroelectric BNT-based ceramics. Chemical Engineering Journal, 2020, 402, 125951.	6.6	126
88	Achievement of superior microwave absorption performance and ultra-wide regulation frequency range in Fe-Co-Nd via tuning the phase constitution and crystallinity. Journal of Magnetism and Magnetic Materials, 2020, 502, 166561.	1.0	7
89	Preparation of CTCNFs/Co₉S₈ hybrid nanofibers with enhanced microwave absorption performance. Nanotechnology, 2020, 31, 225605.	1.3	10
90	Microwave absorption coating based on assemblies of magnetic nanoparticles for enhancing absorption bandwidth and durability. Progress in Organic Coatings, 2020, 141, 105538.	1.9	9

#	Article	IF	Citations
91	Biomass-derived porous graphitic carbon materials for energy and environmental applications. Journal of Materials Chemistry A, 2020, 8, 5773-5811.	5.2	234
92	Controlled reduction synthesis of yolk-shell magnetic@void@C for electromagnetic wave absorption. Chemical Engineering Journal, 2020, 387, 124149.	6.6	167
93	Robust template-activator cooperated pyrolysis enabling hierarchically porous honeycombed defective carbon as highly-efficient metal-free bifunctional electrocatalyst for Zn-air batteries. Applied Catalysis B: Environmental, 2020, 265, 118603.	10.8	79
94	Filter paper templated one-dimensional NiO/NiCo2O4 microrod with wideband electromagnetic wave absorption capacity. Journal of Colloid and Interface Science, 2020, 566, 347-356.	5.0	84
95	Fabrication of a novel magnetic reconstituted bamboo with mildew resistance properties. Materials Today Communications, 2020, 23, 101086.	0.9	24
96	Periodic Three-Dimensional Nitrogen-Doped Mesoporous Carbon Spheres Embedded with Co/Co₃O₄ Nanoparticles toward Microwave Absorption. ACS Applied Materials & Interfaces, 2020, 12, 24102-24111.	4.0	107
97	Achieving excellent wide-range efficient microwave absorption property by synthesis of Fe-doped CuAlO2 powders via a facile solâ€“gel route. Journal of Materials Science: Materials in Electronics, 2020, 31, 9328-9334.	1.1	6
98	Flexible and stretchable MXene/Polyurethane fabrics with delicate wrinkle structure design for effective electromagnetic interference shielding at a dynamic stretching process. Composites Communications, 2020, 19, 90-98.	3.3	73
99	Cellulose-chitosan framework/polyailine hybrid aerogel toward thermal insulation and microwave absorbing application. Chemical Engineering Journal, 2020, 395, 125190.	6.6	195
100	Environment-Stable CoxNiy Encapsulation in Stacked Porous Carbon Nanosheets for Enhanced Microwave Absorption. Nano-Micro Letters, 2020, 12, 102.	14.4	218
101	Carbonized zeolitic imidazolate framework-67/polypyrrole: A magnetic-dielectric interface for enhanced microwave absorption properties. Journal of Colloid and Interface Science, 2020, 574, 87-96.	5.0	46
102	Hierarchical carbonaceous composites with dispersed Co species prepared using the inherent nanostructural platform of biomass for enhanced microwave absorption. Microporous and Mesoporous Materials, 2020, 302, 110210.	2.2	52
103	Tuning of Shells in Trilaminar Core@Shell Nanocomposites in Controlling Electromagnetic Interference through Switching of the Shielding Mechanism. Langmuir, 2020, 36, 4519-4531.	1.6	16
104	Ultrathin MoS₂ Nanosheets Encapsulated in Hollow Carbon Spheres: A Case of a Dielectric Absorber with Optimized Impedance for Efficient Microwave Absorption. ACS Applied Materials & Interfaces, 2020, 12, 20785-20796.	4.0	120
105	Controllable synthesis of MOF-derived FexNi1â^'x@C composites with dielectricâ€“magnetic synergy toward optimized impedance matching and outstanding microwave absorption. Journal of Materials Science, 2021, 56, 592-606.	1.7	19
106	Wheat flour-derived nanoporous carbon@ZnFe2O4 hierarchical composite as an outstanding microwave absorber. Carbon, 2021, 173, 174-184.	5.4	155
107	A rational route towards dual wave-transparent type of carbonyl iron@SiO2@heterogeneous state polypyrrole@paraffin composites for electromagnetic wave absorption application. Journal of Colloid and Interface Science, 2021, 581, 84-95.	5.0	39
108	In situ construction of hierarchical coreâ€“shell Fe3O4@C nanoparticlesâ€“helical carbon nanocoil hybrid composites for highly efficient electromagnetic wave absorption. Carbon, 2021, 171, 395-408.	5.4	119

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109	Pyrolyze this paper: Can biomass become a source for precise carbon electrodes?. Current Opinion in Electrochemistry, 2021, 25, 100638.	2.5	10
110	Used dye adsorbent derived N-doped magnetic carbon foam with enhanced electromagnetic wave absorption performance. Journal of Alloys and Compounds, 2021, 854, 157286.	2.8	41
111	Spider web-like carbonized bacterial cellulose/MoSe2 nanocomposite with enhanced microwave attenuation performance and tunable absorption bands. Nano Research, 2021, 14, 738-746.	5.8	70
112	Magnetic porous N-doped carbon composites with adjusted composition and porous microstructure for lightweight microwave absorbers. Carbon, 2021, 173, 655-666.	5.4	118
113	Biomass-derived 3D magnetic porous carbon fibers with a helical/chiral structure toward superior microwave absorption. Carbon, 2021, 173, 918-931.	5.4	118
114	Biomass-derived graphene-like porous carbon nanosheets towards ultralight microwave absorption and excellent thermal infrared properties. Carbon, 2021, 173, 501-511.	5.4	164
115	Cabon nanofiber supported cobalt ferrite composites with tunable microwave absorption properties. Ceramics International, 2021, 47, 9392-9399.	2.3	17
116	Recent advances in polysaccharide-based carbon aerogels for environmental remediation and sustainable energy. Sustainable Materials and Technologies, 2021, 27, e00240.	1.7	16
117	Electrostatically self-assembled two-dimensional magnetized MXene/hollow Fe₃O₄ nanoparticle hybrids with high electromagnetic absorption performance and improved impendence matching. Journal of Materials Chemistry A, 2021, 9, 3500-3510.	5.2	176
118	Low cost 3D bio-carbon foams obtained from wheat straw with broadened bandwidth electromagnetic wave absorption performance. Applied Surface Science, 2021, 543, 148785.	3.1	63
119	The recent progress of MXene-Based microwave absorption materials. Carbon, 2021, 174, 484-499.	5.4	138
120	Biomass derived porous carbon (BPC) and their composites as lightweight and efficient microwave absorption materials. Composites Part B: Engineering, 2021, 207, 108562.	5.9	177
121	Electromagnetic wave absorption properties of MWCNTs-COOH/cement composites with different shapes of chiral, armchair and zigzag. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 386-393.	1.0	14
122	In situ confine of Co3ZnC/Co in N-doped carbon nanotube-grafted graphitic carbon nanoflakes as 1D-2D hierarchical catalysts toward superior redox activity. Applied Catalysis B: Environmental, 2021, 281, 119513.	10.8	46
123	Magnetic coupling engineered porous dielectric carbon within ultralow filler loading toward tunable and high-performance microwave absorption. Journal of Materials Science and Technology, 2021, 70, 214-223.	5.6	74
124	Fe2O3-decoration and multilayer structure design of Ti3C2 MXene materials toward strong and broadband absorption of electromagnetic waves in the X-band region. Journal of Materials Science: Materials in Electronics, 2021, 32, 25919-25932.	1.1	15
125	Melamine-induced formation of carbon nanotubes assembly on metalâ€“organic framework-derived Co/C composites for lightweight and broadband microwave absorption. Dalton Transactions, 2021, 50, 6222-6231.	1.6	18
126	A self-boosting microwave plasma strategy tuned by air pressure for the highly efficient and controllable surface modification of carbon. RSC Advances, 2021, 11, 9955-9963.	1.7	1

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127	Enhanced microwave absorption performance of light weight N-doped carbon nanoparticles. RSC Advances, 2021, 11, 7954-7960.	1.7	6
128	Coconut-shell-derived activated carbon for NIR photo-activated synergistic photothermal-chemodynamic cancer therapy. Journal of Materials Chemistry B, 2021, 9, 2447-2456.	2.9	16
129	Milling Time-Dependent Lithium/Sodium Storage Performance of Carbons Synthesized by a Mechanochemical Reaction. Energy & Fuels, 2021, 35, 4596-4603.	2.5	4
130	Functionalized carbonized monarch butterfly wing scales (FCBW) ornamented by Î²-Co(OH)₂ nanoparticles: an investigation on its microwave, magnetic, and optical characteristics. Nanotechnology, 2021, 32, 195201.	1.3	13
131	Three-Dimensional Ordered Mesoporous Carbon Spheres Modified with Ultrafine Zinc Oxide Nanoparticles for Enhanced Microwave Absorption Properties. Nano-Micro Letters, 2021, 13, 76.	14.4	87
132	Electromagnetic wave absorption of coconut fiber-derived porous activated carbon. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2022, 61, 417-427.	0.9	4
133	Fe3O4/Î±-Fe decorated porous carbon-based composites with adjustable electromagnetic wave absorption: Impedance matching and loading rate. Journal of Alloys and Compounds, 2021, 858, 157706.	2.8	16
134	Ferrero RocherÂ® chocolates-like FeCo/C microspheres with adjustable electromagnetic properties for effective microwave absorption. Journal of Alloys and Compounds, 2021, 857, 157568.	2.8	67
135	Tuning the Dielectric and Microwaves Absorption Properties of N-Doped Carbon Nanotubes by Boron Insertion. Nanomaterials, 2021, 11, 1164.	1.9	14
136	Environmentally Friendly and Multifunctional Shaddock Peel-Based Carbon Aerogel for Thermal-Insulation and Microwave Absorption. Nano-Micro Letters, 2021, 13, 102.	14.4	257
137	Anchoring of SiC whiskers on the hollow carbon microspheres inducing interfacial polarization to promote electromagnetic wave attenuation capability. Carbon, 2021, 175, 11-19.	5.4	32
138	Highâ€Efficiency Microwave Attenuation of Magnetic Carbon Nanoparticleâ€Decorated Tubular Carbon Nanofibers Composites at an Ultralow Filling Content. Advanced Electronic Materials, 2021, 7, 2100121.	2.6	10
139	Synthesis of CF@PANI hybrid nanocomposites decorated with Fe3O4 nanoparticles towards excellent lightweight microwave absorber. Carbon, 2021, 174, 248-259.	5.4	100
140	A facile synthesis of bare biomass derived holey carbon absorbent for microwave absorption. Applied Surface Science, 2021, 544, 148891.	3.1	52
141	Gradient 3D-printed honeycomb structure polymer coated with a composite consisting of Fe3O4 multi-granular nanoclusters and multi-walled carbon nanotubes for electromagnetic wave absorption. Synthetic Metals, 2021, 275, 116731.	2.1	28
142	Supramolecular self-assembly of nickel (â…¡)-substituted Î±-Keggin-type polyoxometalate and polyaniline coated Fe2O3 hollow nanospindle for microwave absorption application. Progress in Natural Science: Materials International, 2021, , .	1.8	3
143	Enhanced microwave absorption properties of flake-shaped FeCo/BaFe12O19 composites. Ceramics International, 2021, 47, 12389-12396.	2.3	8
144	Rational construction of hierarchical Co@C@NPC nanocomposites derived from bimetallic hybrid ZIFs/biomass for boosting the microwave absorption. Journal of Colloid and Interface Science, 2021, 589, 462-471.	5.0	107

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145	Recent advances in carbon nanotubes-based microwave absorbing composites. Ceramics International, 2021, 47, 23749-23761.	2.3	63
146	Ultralow-density carbon foam composites with bean-like Co-embedded carbon nanotube whiskers towards high-performance microwave absorption. Journal of Alloys and Compounds, 2021, 863, 158090.	2.8	30
147	C/MnO@void@C with Triple Balances for Superior Microwave Absorption Performance. ACS Applied Materials & Interfaces, 2021, 13, 32037-32045.	4.0	33
148	Flexible and Waterproof 2D/1D/0D Construction of MXene-Based Nanocomposites for Electromagnetic Wave Absorption, EMI Shielding, and Photothermal Conversion. Nano-Micro Letters, 2021, 13, 150.	14.4	197
149	Multifunctional carbon nanofiber-SiC nanowire aerogel films with superior microwave absorbing performance. Advanced Composites and Hybrid Materials, 2021, 4, 1281-1291.	9.9	71
150	A sustainable strategy to fabricate porous flower-like magnetic carbon composites for enhanced microwave absorption. Journal of Applied Physics, 2021, 129, .	1.1	15
151	Facile preparation and excellent microwave absorption properties of cobalt-iron/porous carbon composite materials. Journal of Magnetism and Magnetic Materials, 2021, 527, 167776.	1.0	26
152	Design of core-shell nickel oxide/silicon carbide whiskers towards excellent microwave absorption property. Chinese Journal of Chemical Engineering, 2021, 37, 208-216.	1.7	7
153	Fabrication of ultralight helical porous carbon fibers with CNTs-confined Ni nanoparticles for enhanced microwave absorption. Composites Part B: Engineering, 2021, 215, 108814.	5.9	81
154	Architecting functionalized carbon microtube/carrollite nanocomposite demonstrating significant microwave characteristics. Scientific Reports, 2021, 11, 11932.	1.6	32
155	Regulation of component transformation in MOF-derived vanadium oxide@C spindles for high-performance electromagnetic wave absorption. Journal of Alloys and Compounds, 2021, 865, 158886.	2.8	17
156	Tailoring conductive network nanostructures of ZIF-derived cobalt-decorated N-doped graphene/carbon nanotubes for microwave absorption applications. Journal of Colloid and Interface Science, 2021, 591, 463-473.	5.0	65
157	Controllable adjustment of cavity of core-shelled Co3O4@NiCo2O4 composites via facile etching and deposition for electromagnetic wave absorption. Journal of Colloid and Interface Science, 2021, 594, 424-434.	5.0	74
158	An industrial feasible and sustainable method for preparing fiberized bamboo-derived magnetic biomass carbon. Journal of Materials Science: Materials in Electronics, 2021, 32, 26137-26150.	1.1	5
159	Magnetic Fe3S4 LTMCs micro-flowers@ wax gourd aerogel-derived carbon hybrids as efficient and sustainable electromagnetic absorber. Carbon, 2021, 179, 554-565.	5.4	66
160	Lightweight, Fireâ€Retardant, and Antiâ€Compressed Honeycombedâ€Like Carbon Aerogels for Thermal Management and Highâ€Efficiency Electromagnetic Absorbing Properties. Small, 2021, 17, e2102032.	5.2	141
161	Carbon-enabled microwave chemistry: From interaction mechanisms to nanomaterial manufacturing. Nano Energy, 2021, 85, 106027.	8.2	50
162	Atomic-Scale Layer-by-Layer Deposition of FeSiAl@ZnO@Al2O3 Hybrid with Threshold Anti-Corrosion and Ultra-High Microwave Absorption Properties in Low-Frequency Bands. Nano-Micro Letters, 2021, 13, 161.	14.4	103

#	Article	IF	Citations
163	Bio-carbon/FexOy composite materials with a wideband electromagnetic wave absorption. Journal of Materials Science: Materials in Electronics, 2021, 32, 20856-20866.	1.1	8
164	Magnetic porous CoNi@C derived from bamboo fiber combined with metal-organic-framework for enhanced electromagnetic wave absorption. Journal of Colloid and Interface Science, 2021, 595, 78-87.	5.0	79
165	Hierarchical porous hollow graphitized carbon@MoS2 with wideband EM dissipation capability. Journal of Materials Science and Technology, 2021, 83, 239-247.	5.6	27
166	Preparation of self-healing hydrogel toward improving electromagnetic interference shielding and energy efficiency. Scientific Reports, 2021, 11, 16161.	1.6	32
167	Electromagnetic shielding effectiveness of lightweight and flexible ultrathin shungite plates. Current Applied Physics, 2021, 29, 97-106.	1.1	10
168	Enhanced dielectric polarization from disorder-engineered Fe3O4@black TiO2-x heterostructure for broadband microwave absorption. Chemical Engineering Journal, 2021, 419, 130020.	6.6	60
169	Cage-like eggshell membrane-derived Co-CoxSy-Ni/N,S-codoped carbon composites for electromagnetic wave absorption. Chemical Engineering Journal, 2022, 430, 132650.	6.6	25
170	A review of recent advancements in Ni-related materials used for microwave absorption. Journal Physics D: Applied Physics, 2021, 54, 473003.	1.3	18
171	Carbonized Silk Fiber Mat: a Flexible and Broadband Microwave Absorber, and the Length Effect. ACS Sustainable Chemistry and Engineering, 2021, 9, 12747-12754.	3.2	7
172	High Frequency Electromagnetic Shielding by Biochar-Based Composites. Nanomaterials, 2021, 11, 2383.	1.9	25
173	MOFs derived magnetic porous carbon microspheres constructed by core-shell Ni@C with high-performance microwave absorption. Journal of Materials Science and Technology, 2021, 88, 56-65.	5.6	249
174	Dimensionality determined microwave absorption properties in ferrite/bio-carbon composites. Ceramics International, 2021, 47, 27496-27502.	2.3	20
175	Hollow CuS microflowers anchored porous carbon composites as lightweight and broadband microwave absorber with flame-retardant and thermal stealth functions. Carbon, 2021, 184, 514-525.	5.4	75
176	Hierarchically porous wood-derived carbon scaffold embedded phase change materials for integrated thermal energy management, electromagnetic interference shielding and multifunctional application. Carbon, 2021, 183, 515-524.	5.4	98
177	Facile preparation of ultralight porous carbon hollow nanoboxes for electromagnetic wave absorption. Ceramics International, 2021, 47, 28014-28020.	2.3	40
178	Chitosan-derived carbon aerogels with multiscale features for efficient microwave absorption. Chemical Engineering Journal, 2021, 421, 129781.	6.6	93
179	Chemical reaction kinetics-guided size and pore structure tuning strategy for fabricating hollow carbon spheres and their selective adsorption properties. Carbon, 2021, 183, 158-168.	5.4	8
180	SiC network reinforced SiO2 aerogel with improved compressive strength and preeminent microwave absorption at elevated temperatures. Ceramics International, 2021, 47, 31497-31505.	2.3	12

#	Article	IF	Citations
181	Towards efficient carbon nanodot-based electromagnetic microwave absorption via nitrogen doping. Applied Surface Science, 2021, 567, 150897.	3.1	10
182	Fe3O4 nanoparticles anchored on hierarchical porous carbon derived from egg white for efficient microwave absorption performance. Materials Letters, 2021, 304, 130624.	1.3	9
183	Magnetic core-shell structure in-situ encapsulated in bamboo-derived carbon skeleton for efficient microwave absorption. Journal of Alloys and Compounds, 2021, 888, 161510.	2.8	15
184	A comprehensive review of renewable and sustainable biosourced carbon through pyrolysis in biocomposites uses: Current development and future opportunity. Renewable and Sustainable Energy Reviews, 2021, 152, 111666.	8.2	40
185	Physicochemical properties and microwave absorption performance of Co3O4 and banana peel-derived porous activated carbon composite at X-band frequency. Journal of Alloys and Compounds, 2021, 888, 161474.	2.8	32
186	Rime-like carbon paper@Bi2S3 hybrid structure for efficient and broadband microwave absorption. Chemical Engineering Journal, 2022, 428, 131127.	6.6	39
187	Rice husk derived hierarchical porous carbon with lightweight and efficient microwave absorption. Materials Chemistry and Physics, 2022, 275, 125246.	2.0	38
188	CoFe2O4/porous carbon nanosheet composites for broadband microwave absorption. Chemical Engineering Journal, 2022, 427, 130796.	6.6	112
189	Ultralight Coral-like hierarchical Fe/CNTs/Porous carbon composite derived from biomass with tunable microwave absorption performance. Applied Surface Science, 2022, 571, 151349.	3.1	25
190	Mixed-dimensional hierarchical configuration of 2D Ni2P nanosheets anchored on 1D silk-derived carbon fiber for extraordinary electromagnetic wave absorption. Journal of Materials Science and Technology, 2022, 101, 85-94.	5.6	70
191	Enhanced microwave absorption properties of biomass-derived carbon decorated with transition metal alloy at improved graphitization degree. Journal of Alloys and Compounds, 2022, 890, 161834.	2.8	63
192	Ultralight and Low-Cost Structural Absorbers With Enhanced Microwave Absorption Performance Based on Sustainable Waste Biomass. IEEE Transactions on Antennas and Propagation, 2022, 70, 401-409.	3.1	15
193	Enhanced electromagnetic wave absorption of magnetic Co nanoparticles/CNTs/EG porous composites with waterproof, flame-retardant and thermal management functions. Journal of Materials Chemistry A, 2021, 9, 17538-17552.	5.2	89
194	Synthesis and Broadband Absorption of Fe-Based Nanoparticles in the Ku-Band. Journal of Electronic Materials, 2021, 50, 2157-2163.	1.0	3
195	A Review on Metalâ€“Organic Framework-Derived Porous Carbon-Based Novel Microwave Absorption Materials. Nano-Micro Letters, 2021, 13, 56.	14.4	216
196	Mechanochemical synthesis of carbon from CO2: Mechanism for milling process-dependent morphology of carbon. Journal of Alloys and Compounds, 2020, 830, 154681.	2.8	9
197	Preparation of cobalt sulfide nanoparticles wrapped into reduced graphene oxide with tunable microwave absorption performance. Journal of Applied Physics, 2020, 127, .	1.1	19
198	Functionalized carbon microfibers (biomass-derived) ornamented by Bi₂S₃ nanoparticles: an investigation on their microwave, magnetic, and optical characteristics. Nanotechnology, 2021, 32, 065201.	1.3	22

#	Article	IF	Citations
199	Hierarchical Porous Carbon with Interconnected Ordered Pores from Biowaste for High-Performance Supercapacitor Electrodes. Nanoscale Research Letters, 2020, 15, 88.	3.1	30
200	Crystallization- and morphology-tunable Fe₃O₄@C coreâ€“shell composites decorated on carbon nanotube skeleton with tailorable electromagnetic wave absorption behavior. Applied Physics Express, 2020, 13, 125501.	1.1	5
201	Biomass-based carbon materials derived from Cyperus malaccensis Lam. var. brevifolius Bocklr with efficient microwave absorption performance. Journal of Materials Science: Materials in Electronics, 2021, 32, 26202-26212.	1.1	2
202	Fabrication of clay soil/CuFe2O4 nanocomposite toward improving energy and shielding efficiency of buildings. Scientific Reports, 2021, 11, 20832.	1.6	26
203	Surface modification of helical carbon nanocoil (CNC) with N-doped and Co-anchored carbon layer for efficient microwave absorption. Journal of Colloid and Interface Science, 2022, 608, 1894-1906.	5.0	26
204	Composition Optimization and Microstructure Design in MOFs-Derived Magnetic Carbon-Based Microwave Absorbers: A Review. Nano-Micro Letters, 2021, 13, 208.	14.4	138
205	Broadband microwave absorption performance and theoretical dielectric properties model of hollow porous carbon spheres/expanded polypropylene composite foams. Polymer, 2021, 234, 124262.	1.8	6
206	Environmentally friendly bark-derived Co-Doped porous carbon composites for microwave absorption. Carbon, 2022, 187, 115-125.	5.4	76
207	Regulating lignin content to obtain excellent bamboo-derived electromagnetic wave absorber with thermal stability. Chemical Engineering Journal, 2022, 430, 133178.	6.6	73
208	Progress and Perspectives on Aurivillius-Type Layered Ferroelectric Oxides in Binary Bi4Ti3O12-BiFeO3 System for Multifunctional Applications. Crystals, 2021, 11, 23.	1.0	27
209	ZIF-67/GNs derived Co3O4/GNs multilayer flower and porous structure as an efficient electromagnetic wave absorbing material for excellent absorbing properties. Applied Surface Science, 2022, 575, 151789.	3.1	27
210	Synthesis of NiCo2-0.5xCr2O3@C nanoparticles based on hydroxide with the heterogeneous interface for excellent electromagnetic wave absorption properties. Composites Communications, 2022, 29, 100993.	3.3	37
211	Microwave absorption properties of Ni/C@SiC composites prepared by precursor impregnation and pyrolysis processes. Defence Technology, 2023, 21, 94-102.	2.1	11
212	Biomass-derived carbon-coated WS2 core-shell nanostructures with excellent electromagnetic absorption in C-band. Applied Surface Science, 2022, 577, 151939.	3.1	75
213	Implantation of WSe2 nanosheets into multi-walled carbon nanotubes for enhanced microwave absorption. Journal of Colloid and Interface Science, 2022, 609, 746-754.	5.0	110
214	MOF-derived NiFe2S4/Porous carbon composites as electromagnetic wave absorber. Journal of Colloid and Interface Science, 2022, 610, 610-620.	5.0	69
216	Integrating Hierarchical Interfacial Polarization in Yeast-Derived Mo ₂C/C Nanoflower/Microsphere Nanoarchitecture for Boosting Microwave Absorption Performance. SSRN Electronic Journal, 0, , .	0.4	0
217	3D porous biomass-derived carbon materials: biomass sources, controllable transformation and microwave absorption application. Green Chemistry, 2022, 24, 647-674.	4.6	85

#	Article	IF	Citations
218	Polarization loss-enhanced honeycomb-like MoS2 nanoflowers/undaria pinnatifida-derived porous carbon composites with high-efficient electromagnetic wave absorption. Chemical Engineering Journal, 2022, 431, 134284.	6.6	86
219	Anchoring well-dispersed magnetic nanoparticles on biomass-derived 2D porous carbon nanosheets for lightweight and efficient microwave absorption. Composites Part A: Applied Science and Manufacturing, 2022, 154, 106773.	3.8	28
220	Self-assembly of nano/microstructured 2D Ti3CNTx MXene-based composites for electromagnetic pollution elimination and Joule energy conversion application. Carbon, 2022, 189, 305-318.	5.4	55
221	Broadband microwave absorber composed of sandwich structure with a lossless medium as the intermediate layer. Journal of Magnetism and Magnetic Materials, 2022, 548, 168963.	1.0	5
222	Biomass vs inorganic and plastic-based aerogels: Structural design, functional tailoring, resource-efficient applications and sustainability analysis. Progress in Materials Science, 2022, 125, 100915.	16.0	73
223	Enhanced interfacial polarization of biomass-derived porous carbon with a low radar cross-section. Journal of Colloid and Interface Science, 2022, 612, 146-155.	5.0	45
224	Research progress on nanostructure design and composition regulation of carbon spheres for the microwave absorption. Carbon, 2022, 189, 617-633.	5.4	77
225	Integrating hierarchical interfacial polarization in yeast-derived Mo2C/C nanoflower/microsphere nanoarchitecture for boosting microwave absorption performance. Carbon, 2022, 189, 530-538.	5.4	34
226	The fabrication and physical properties of two-dimensional van der Waals heterostructures. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 048502.	0.2	2
227	Multifunctional TPU composite foams with embedded biomass-derived carbon networks for electromagnetic interference shielding. Composites Communications, 2022, 30, 101062.	3.3	12
228	Nanoporous resorcinol-formaldehyde based carbon aerogel for lightweight and tunable microwave absorption. Materials Chemistry and Physics, 2022, 278, 125718.	2.0	7
229	Facile preparation of C/MnO/Co nanocomposite fibers for High-Performance microwave absorption. Composites Part A: Applied Science and Manufacturing, 2022, 155, 106814.	3.8	50
230	Dielectric Loss Mechanism in Electromagnetic Wave Absorbing Materials. Advanced Science, 2022, 9, e2105553.	5.6	422
231	Supramolecular self-assembly derived Mo2C/FeCo/NC hierarchical nanostructures with excellent wideband microwave absorption properties. Composites Science and Technology, 2022, 221, 109325.	3.8	26
232	Layered Foam/Film Polymer Nanocomposites with Highly Efficient EMI Shielding Properties and Ultralow Reflection. Nano-Micro Letters, 2022, 14, 19.	14.4	76
233	Broadband Microwave Absorber Composed of Sandwich Structure with a Lossless Medium as the Intermediate Layer. SSRN Electronic Journal, 0, , .	0.4	0
234	Environmentally Friendly and Hydrophobic Honeycomb-LikeÂZnfe2o4@C@Bpc Composites for Excellent Microwave Absorption. SSRN Electronic Journal, 0, , .	0.4	0
235	Interface engineering in the hierarchical assembly of carbon-confined Fe₃O₄ nanospheres for enhanced microwave absorption. Journal of Materials Chemistry A, 2022, 10, 8807-8816.	5.2	32

#	Article	IF	Citations
236	Two-dimensional hierarchical porous carbons with mesopore-enriched architectures for high-reactivity and stable lithium-ion full batteries. Journal of Materials Science, 2022, 57, 5142-5153.	1.7	5
237	Sustainable Microwave Absorbing Material based on Macadamia Nutshell Derived Porous Carbon. Nano, 0, , .	0.5	5
238	Wool-Based Carbon Fiber/MoS2 Composite Prepared by Low-Temperature Catalytic Hydrothermal Method and Its Application in the Field of Gas Sensors. Nanomaterials, 2022, 12, 1105.	1.9	3
239	Multi-interface self-assembling on MXenes skeleton towards wideband electromagnetic dissipation. Materials Today Physics, 2022, , 100685.	2.9	7
240	Reutilization of waste biomass from sugarcane bagasse and orange peel to obtain carbon foams: Applications in the metal ions removal. Science of the Total Environment, 2022, 831, 154883.	3.9	16
241	Biomass derived graphene-like multifold carbon nanosheets with excellent electromagnetic wave absorption performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 644, 128826.	2.3	26
242	Constructing WSe2@CNTs heterojunction to tune attenuation capability for efficient microwave absorbing and green EMI shielding. Applied Surface Science, 2022, 592, 153253.	3.1	27
243	Metal Oxide/Nitrogen-Doped Carbon Nanosheet Heteronanostructures as Highly Efficient Electromagnetic Wave Absorbing Materials. Molecules, 2021, 26, 7537.	1.7	7
244	Simultaneous Achievement of High-Yield Hydrogen and High-Performance Microwave Absorption Materials from Microwave Catalytic Deconstruction of Plastic Waste. Processes, 2022, 10, 782.	1.3	4
245	3-D hierarchical urchin-like Fe3O4/CNTs architectures enable efficient electromagnetic microwave absorption. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 281, 115721.	1.7	14
246	Balancing Between Polarization and Conduction Loss toward Strong Electromagnetic Wave Absorption of Hard Carbon Particles with Morphology Heterogeneity. ACS Applied Materials & Interfaces, 2022, 14, 19836-19846.	4.0	22
247	Comparative study of microwave absorption properties of Niâ€“Zn ferrites obtained from different synthesis technologies. Ceramics International, 2022, 48, 22896-22905.	2.3	14
248	Almond C/FexOy composite material based on biomass porous carbon structure with high-efficiency microwave absorbing properties. Journal of Materials Science: Materials in Electronics, 2022, 33, 13166-13179.	1.1	8
249	Recent Advancements in MOF/Biomass and Bio-MOF Multifunctional Materials: A Review. Sustainability, 2022, 14, 5768.	1.6	23
250	Improved microwave absorption traits of coconut shells-derived activated carbon. Diamond and Related Materials, 2022, 126, 109059.	1.8	10
251	Biomass-derived materials: Promising, affordable, capable, simple, and lightweight microwave absorbing structures. Chemical Engineering Journal, 2022, 446, 136903.	6.6	38
252	Porous carbon/Fe composites from waste fabric for high-efficiency electromagnetic wave absorption. Journal of Materials Science and Technology, 2022, 126, 266-274.	5.6	51
253	Design of Flexible Film-Forming Polydopamine/Polypyrrole/Nanodiamond Hierarchical Structure for Broadband Microwave Absorption. Polymers, 2022, 14, 2014.	2.0	3

#	Article	IF	Citations
254	Wide microwave absorption bandwidth of the puffed-rice-based carbon obtained at 950ÂÂ°C. Journal of Materials Science: Materials in Electronics, 0, , .	1.1	3
255	A study on the electrical, magnetic, optical and structural properties of bare biomass derived holey carbon absorbent. Materials Chemistry and Physics, 2022, 287, 126262.	2.0	6
256	Flexible TiN/Co@Carbon nanofiber mats for high-performance electromagnetic interference shielding and Joule heating applications. Carbon, 2022, 196, 612-620.	5.4	22
257	EM waves absorption properties of nitrogenous porous carbon derived from PANI fiber clusters carbonization. Microporous and Mesoporous Materials, 2022, 339, 112000.	2.2	1
258	Tunable design of ZnFe2O4@C@BPC hybrid with rich heterogeneous interfaces as a hydrophobic electromagnetic wave absorber. Ceramics International, 2022, 48, 24877-24887.	2.3	13
259	Wood-Derived Porous Carbon/Iron Oxide Nanoparticle Composites for Enhanced Electromagnetic Interference Shielding. ACS Applied Nano Materials, 2022, 5, 8537-8545.	2.4	15
260	Hierarchically porous carbon derived from natural Porphyra for excellent electromagnetic wave absorption. Journal of Materials Science and Technology, 2022, 129, 206-214.	5.6	68
261	Morphology control of eco-friendly chitosan-derived carbon aerogels for efficient microwave absorption at thin thickness and thermal stealth. Green Chemistry, 2022, 24, 5280-5290.	4.6	107
262	N-doped carbon nanofiber embedded with TiN nanoparticles: A type of efficient microwave absorbers with lightweight and wide-bandwidth. Journal of Alloys and Compounds, 2022, 920, 165791.	2.8	6
263	Engineering polarization surface of hierarchical ZnO microspheres via spray-annealing strategy for wide-frequency electromagnetic wave absorption. Journal of Materials Science and Technology, 2022, 131, 231-239.	5.6	26
264	Ceramic-based electromagnetic wave absorbing materials and concepts towards lightweight, flexibility and thermal resistance. International Materials Reviews, 2023, 68, 487-520.	9.4	19
265	Sustainable Kapok Fiber-Derived Carbon Microtube as Broadband Microwave Absorbing Material. Materials, 2022, 15, 4845.	1.3	9
266	A sustainable and low-cost route to prepare magnetic particle-embedded ultra-thin carbon nanosheets with broadband microwave absorption from biowastes. Carbon, 2022, 198, 195-206.	5.4	40
267	Optimized impedance matching of micro-porous silicon dioxide coated graphite nanosheets as remarkable microwave absorber. Composites Part A: Applied Science and Manufacturing, 2022, 161, 107084.	3.8	1
268	Biomass-derived porous carbon for microwave absorption. Materials Chemistry and Physics, 2022, 289, 126437.	2.0	29
269	Methods for the conversion of biomass waste into value-added carbon nanomaterials: Recent progress and applications. Progress in Energy and Combustion Science, 2022, 92, 101023.	15.8	53
270	Composition design and performance regulation of three-dimensional interconnected FeNi@carbon nanofibers as ultra-lightweight and high efficiency electromagnetic wave absorbers. Carbon, 2022, 197, 494-507.	5.4	32
271	Controlling the microstructure of biomass-derived porous carbon to assemble structural absorber for broadening bandwidth. Carbon, 2022, 198, 70-79.	5.4	23

#	Article	IF	Citations
272	Cellular-like sericin-derived carbon decorated reduced graphene oxide for tunable microwave absorption. Applied Surface Science, 2022, 599, 154063.	3.1	12
273	Biomass-derived ultralight superior microwave absorber TowardsÂXÂand Ku bands. Journal of Colloid and Interface Science, 2022, 626, 13-22.	5.0	21
274	Chitin-derived-carbon nanofibrous aerogel with anisotropic porous channels and defective carbon structures for strong microwave absorption. Chemical Engineering Journal, 2022, 450, 137943.	6.6	15
275	Lightweight and Compression-Resistant Carbon-Based Sandwich Honeycomb Absorber with Excellent Electromagnetic Wave Absorption. Nanomaterials, 2022, 12, 2622.	1.9	2
276	Heteroatoms-doped carbon nanocages with enhanced dipolar and defective polarization toward light-weight microwave absorbers. Nano Research, 2022, 15, 8705-8713.	5.8	63
277	An Equivalent Substitute Strategy for Constructing 3D Ordered Porous Carbon Foams and Their Electromagnetic Attenuation Mechanism. Nano-Micro Letters, 2022, 14, .	14.4	65
278	Dopants versus defects: Intense confrontation of nitrogen-doped Ti3C2Tx for enhanced electromagnetic interference shielding. Composites Communications, 2022, 35, 101301.	3.3	6
279	Multifunctional graphene/carbon fiber aerogels toward compatible electromagnetic wave absorption and shielding in gigahertz and terahertz bands with optimized radar cross section. Carbon, 2022, 199, 333-346.	5.4	42
280	Ni/Ni3ZnC0.7 modified alginate-derived carbon composites with porous structures for electromagnetic wave absorption. Carbon, 2022, 200, 166-177.	5.4	12
281	Hierarchical CoNi alloys toward microwave absorption application: Chain-like versus particle-like. Journal of Alloys and Compounds, 2022, 926, 166854.	2.8	22
282	Sterculia lychnophora seed-derived porous carbon@CoFe2O4 composites with efficient microwave absorption performance. Applied Surface Science, 2023, 607, 155027.	3.1	25
283	Effect of Particle Size and MWCNTs Content on Microwave Absorption Characteristics of Cobalt. IEEE Transactions on Magnetics, 2022, 58, 1-16.	1.2	8
284	Lightweight 3D interconnected porous carbon with robust cavity skeleton derived from petroleum pitch for effective multi-band electromagnetic wave absorption. Carbon, 2022, 200, 390-400.	5.4	25
285	Construction of 1D biomass-derived tubular carbon fiber/Ni nanoparticles composite for broadband and lightweight microwave absorbers. Carbon, 2022, 200, 317-326.	5.4	16
286	Recent progress of polyaniline-based composites in the field of microwave absorption. Synthetic Metals, 2022, 291, 117190.	2.1	9
287	Microrod superstructure of graphene nanocages with enhanced microwave absorption performance. Journal of Alloys and Compounds, 2022, 928, 167044.	2.8	2
288	Construction of 1d Biomass-Derived Tubular Carbon Fiber/Ni Nanoparticles Composite for Broadband and Lightweight Microwave Absorbers. SSRN Electronic Journal, 0, , .	0.4	0
289	Improved Microwave Absorption Performance with Sustainable Porous Carbon/Carbon Nanotube Composites. Materials Research, 2022, 25, .	0.6	1

#	Article	IF	Citations
290	Carbon doped with binary heteroatoms (N,Xâ€“C, where X = P, B, or S) derived from polypyrrole for enhanced electromagnetic wave absorption at microwave frequencies. Ceramics International, 2023, 49, 4252-4263.	2.3	10
291	Biomass-derived carbon materials for effective broadband electromagnetic conversion. Journal of Materials Science, 2022, 57, 17649-17660.	1.7	1
292	Application of Biomass-Derived Carbon/Flaky Carbonyl Iron Composite for Lightweight and Broadband Microwave Absorption Coating. Journal of Electronic Materials, 2022, 51, 7134-7142.	1.0	5
293	A Novel Hierarchically Lightweight Porous Carbon Derived from Egg White for Strong Microwave Absorption. Engineering, 2022, 18, 161-172.	3.2	5
294	Fe3O4@C 3D foam for strong low-frequency microwave absorption. Journal of Materiomics, 2023, 9, 148-156.	2.8	11
295	A review of carbon-based magnetic microwave-absorbing composites with one-dimensional structure. Journal of Materials Science, 2022, 57, 18243-18265.	1.7	11
296	Pixelated Wideband Metamaterial Absorber for X-band Applications. Lecture Notes in Electrical Engineering, 2023, , 553-562.	0.3	0
297	Natural Hollow Fiber-Derived Carbon Microtube with Broadband Microwave Attenuation Capacity. Polymers, 2022, 14, 4501.	2.0	4
298	Electrostatic Adsorption Enables Layer Stacking Thicknessâ€Ðependent Hollow Ti₃C₂T_x MXene Bowls for Superior Electromagnetic Wave Absorption. Small, 2022, 18, .	5.2	35
299	Two-dimensional transition metal dichalcogenides based composites for microwave absorption applications: a review. JPhys Energy, 2023, 5, 012001.	2.3	5
300	Morphology modulation induced enhancement of microwave absorption performance in Fe20Ni80 particles. Journal of Alloys and Compounds, 2023, 933, 167741.	2.8	6
301	Facile fabrication of 3D biochar absorbers dual-loaded with Fe3O4 nanoparticles for enhanced microwave absorption. Journal of Alloys and Compounds, 2023, 935, 168085.	2.8	8
302	Architectural Design and Microstructural Engineering of Metalâ€“Organic Frameworkâ€Ðerived Nanomaterials for Electromagnetic Wave Absorption. Small Structures, 2023, 4, .	6.9	16
303	Microwave absorption properties of porous activated carbon-based palm oil empty fruit bunch. AIP Advances, 2022, 12, 115024.	0.6	1
304	Fe3O4 nanospheres deposited on Prussian blue analogue-derived Ni-Co/CNTs networks for electromagnetic wave absorption. Diamond and Related Materials, 2023, 132, 109620.	1.8	4
305	Research progress on the application of derived porous carbon materials in solid-phase microextraction. Chinese Journal of Chromatography (Se Pu), 2022, 40, 882-888.	0.1	4
306	ZnO/Fe3O4 Nanoparticles Encapsulated in N-Doped Porous Carbon for Extraordinary Microwave Absorption. Journal of Electronic Materials, 2023, 52, 1233-1241.	1.0	1
307	Molybdenum Carbide/Cobalt Composite Nanorods via a â€œMOFs plus MOFsâ€•Strategy for High-Efficiency Microwave Absorption. ACS Applied Nano Materials, 2022, 5, 18697-18707.	2.4	8

#	Article	IF	Citations
308	Catfish Effect Induced by Anion Sequential Doping for Microwave Absorption. Advanced Functional Materials, 2023, 33, .	7.8	51
309	Heterointerface engineering in hierarchical assembly of the Co/Co(OH)2@carbon nanosheets composites for wideband microwave absorption. Nano Research, 0, , .	5.8	27
310	Bridged polysilsesquioxaneâ€derived SiOCN ceramic aerogels for microwave absorption. Journal of the American Ceramic Society, 2023, 106, 2407-2419.	1.9	9
311	Apple residues derived porous carbon nanosheets synthesized with FeCl3 assisted hydrothermal carbonization for supercapacitors with high rate performance. Carbon Letters, 2023, 33, 549-560.	3.3	3
312	NiO/Ni Heterojunction on Nâ€Doped Hollow Carbon Sphere with Balanced Dielectric Loss for Efficient Microwave Absorption. Small, 2023, 19, .	5.2	50
313	A literature review of MOF derivatives of electromagnetic wave absorbers mainly based on pyrolysis. International Journal of Minerals, Metallurgy and Materials, 2023, 30, 446-473.	2.4	35
314	Ordered TiO2 transition layer for balanced impedance-matching enabling TiO2/C/RGO porous foam low filler loading and enhanced electromagnetic wave absorption performance. Ceramics International, 2023, 49, 14587-14595.	2.3	7
315	Enhanced microwave absorption property of silver decorated biomass ordered porous carbon composite materials with frequency selective surface incorporation. International Journal of Minerals, Metallurgy and Materials, 2023, 30, 525-535.	2.4	61
316	Polyindole-Derived Nitrogen-Doped Carbon Nanosphere/Al₂O₃ Composites with High-Performance Microwave Absorption. ACS Applied Electronic Materials, 2023, 5, 559-570.	2.0	3
317	Electrospun Fe0.64Ni0.36/MXene/CNFs nanofibrous membranes with multicomponent heterostructures as flexible electromagnetic wave absorbers. Nano Research, 0, , .	5.8	61
318	Intense Blue Photo Emissive Carbon Dots Prepared through Pyrolytic Processing of Ligno-Cellulosic Wastes. Nanomaterials, 2023, 13, 131.	1.9	2
319	Intelligent analysis of carbendazim in agricultural products based on a ZSHPC/MWCNT/SPE portable nanosensor combined with machine learning methods. Analytical Methods, 2023, 15, 562-571.	1.3	4
320	3D anchoring structured for LiFe0.5Mn0.5PO4@cornstalk-C cathode materials. Chinese Chemical Letters, 2023, 34, 108164.	4.8	2
321	Confined magnetic vortex motion from metal-organic frameworks derived Ni@C microspheres boosts electromagnetic wave energy dissipation. , 2023, 2, 100111.		6
322	Pore-regulation in 2D biochar-based flakes towards wideband microwave absorption. Chemical Engineering Journal, 2023, 464, 142568.	6.6	14
323	A solvent-free process enabling ZnO/porous carbon with enhanced microwave absorption. Journal of Materials Science and Technology, 2023, 149, 255-264.	5.6	6
324	Broadband multispectral compatible absorbers for radar, infrared and visible stealth application. Progress in Materials Science, 2023, 135, 101088.	16.0	147
325	Controllable synthesis of porous carbon@Fe20Ni80 composites with improved microwave absorption performance. Composites Part B: Engineering, 2023, 259, 110710.	5.9	13

#	Article	IF	Citations
326	Thin layers of microwave absorbing metamaterials with carbon fibers and FeSi alloy ribbons to enhance the absorption properties. EPJ Applied Metamaterials, 2023, 10, 3.	0.8	5
327	Design and Preparation of Flexible Graphene/Nonwoven Composites with Simultaneous Broadband Absorption and Stable Properties. Nanomaterials, 2023, 13, 634.	1.9	2
328	In-situ preparation of CoFe2O4 nanoparticles on eggshell membrane-activated carbon for microwave absorption. Heliyon, 2023, 9, e13256.	1.4	2
329	Biomimetic gas sensor derived from disposable bamboo chopsticks for highly sensitive and selective detection of NH3. Chemical Engineering Journal, 2023, 462, 142203.	6.6	10
330	Ascertaining Uncertain Nanopore Boundaries in 2D Images of Porous Materials for Accurate 3D Microstructural Reconstruction and Heat Transfer Performance Prediction. Industrial & Engineering Chemistry Research, 2023, 62, 5358-5369.	1.8	2
331	Co3O4 Nanoparticle-Modified Porous Carbons with High Microwave Absorption Performances. Nanomaterials, 2023, 13, 1073.	1.9	2
332	Ultralight aerogel sphere composed of nanocellulose-derived carbon nanofiber and graphene for excellent electromagnetic wave absorption. Nano Research, 2023, 16, 7931-7940.	5.8	21
333	Regulation of Impedance Matching and Dielectric Loss Properties of Nâ€Ðoped Carbon Hollow Nanospheres Modified With Atomically Dispersed Cobalt Sites for Microwave Energy Attenuation. Small, 2023, 19, .	5.2	17
334	Functional Carbon from Nature: Biomassâ€Ðerived Carbon Materials and the Recent Progress of Their Applications. Advanced Science, 2023, 10, .	5.6	30
335	Study on fused deposition modeling forming and properties of Ni/PLA/TPU composite microwave absorbing material. Journal of Materials Science, 2023, 58, 6983-6997.	1.7	1
336	Biomass-based Co/C@Carbon composites derived from MOF-modified cotton fibers for enhanced electromagnetic attenuation. Carbon, 2023, 210, 118035.	5.4	5
337	Three dimensional carbon aerogel for microwave absorption from chitosan. Synthetic Metals, 2023, 295, 117352.	2.1	7
364	Biomass-based micropore carbon synthesis; tamarind wood (Tamarindus indica), Mahogany (Swietenia) Tj ETQq0 0 0 rgBT /Overlock 10 2023, , .	0.3	0
407	Recent Advances in Biomass-derived Porous Carbon Materials: Synthesis, Composition and Applications. Chemical Research in Chinese Universities, 2024, 40, 3-19.	1.3	1
411	One-pot synthesis of biomass-derived porous carbons for multipurpose energy applications. Journal of Materials Chemistry A, 2024, 12, 6211-6242.	5.2	0
416	A review on carbon material-metal oxide-conducting polymer and ionic liquid as electrode materials for energy storage in supercapacitors. Ionics, 2024, 30, 1857-1870.	1.2	1