

Defect Engineering in Two Common Types of Dielectric Absorption Applications

Advanced Functional Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Synthesis of $\text{LiCo}_0.94\text{Mg}_0.06\text{O}_2$: a promising material with high dielectric and microwave absorption performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15935-15942.	1.1	2
2	Synthesis and microwave absorption of $\text{Ti}_3\text{C}_2\text{T}_x$ MXene with diverse reactant concentration, reaction time, and reaction temperature. <i>Ceramics International</i> , 2019, 45, 23600-23610.	2.3	37
3	Hollow porous Fe_2O_3 microspheres wrapped by reduced graphene oxides with high-performance microwave absorption. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11167-11176.	2.7	59
4	Achieving MOF-derived one-dimensional porous ZnO/C nanofiber with lightweight and enhanced microwave response by an electrospinning method. <i>Journal of Alloys and Compounds</i> , 2019, 806, 983-991.	2.8	94
5	Space-Confined Synthesis of Core-Shell BaTiO_3 @Carbon Microspheres as a High-Performance Binary Dielectric System for Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31182-31190.	4.0	110
6	Boosted Interfacial Polarization from Multishell TiO_2 @ Fe_3O_4 @PPy Heterojunction for Enhanced Microwave Absorption. <i>Small</i> , 2019, 15, e1902885.	5.2	293
7	Walnut shell-derived nanoporous carbon@ Fe_3O_4 composites for outstanding microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2019, 805, 1071-1080.	2.8	61
8	One-pot solvothermal synthesis of $\text{Fe}/\text{Fe}_3\text{O}_4$ composites with broadband microwave absorption. <i>Journal of Alloys and Compounds</i> , 2019, 803, 818-825.	2.8	23
9	Core-Shell CoNi @Graphitic Carbon Decorated on B,N-Codoped Hollow Carbon Polyhedrons toward Lightweight and High-Efficiency Microwave Attenuation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25624-25635.	4.0	363
10	Flexible $\text{rGO}/\text{Fe}_3\text{O}_4$ NPs/polyurethane film with excellent electromagnetic properties. <i>Chinese Physics B</i> , 2019, 28, 108103.	0.7	5
11	Novel two-dimensional $\text{Ti}_3\text{C}_2\text{TX}/\text{Ni}$ -spheres hybrids with enhanced microwave absorption properties. <i>Ceramics International</i> , 2019, 45, 22880-22888.	2.3	69
12	$\text{Fe}/\text{Fe}_3\text{O}_4$ @N-Doped Carbon Hexagonal Plates Decorated with Ag Nanoparticles for Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2019, 2, 7266-7278.	2.4	43
13	Fabrication of nitrogen-doped cobalt oxide/cobalt/carbon nanocomposites derived from heterobimetallic zeolitic imidazolate frameworks with superior microwave absorption properties. <i>Composites Part B: Engineering</i> , 2019, 178, 107518.	5.9	58
14	Surface modification and microwave absorption properties of lightweight CNT absorbent. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 21048-21058.	1.1	14
15	Net-like $\text{SiC}@C$ coaxial nanocable towards superior lightweight and broadband microwave absorber. <i>Composites Part B: Engineering</i> , 2019, 179, 107525.	5.9	54
16	Fe_3O_4 Nanoflower-Carbon Nanotube Composites for Microwave Shielding. <i>ACS Applied Nano Materials</i> , 2019, 2, 5475-5482.	2.4	42
17	Optimizing electromagnetic wave absorption performance: Design from microscopic bamboo carbon nanotubes to macroscopic patterns. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151866.	2.8	31
18	Lightweight $\text{Fe}@C$ hollow microspheres with tunable cavity for broadband microwave absorption. <i>Composites Part B: Engineering</i> , 2019, 177, 107346.	5.9	89

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19	Synthesis and properties of high performance polysulfone resin with low dielectric constant and dielectric loss. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 18168-18176.	1.1	8
20	Morphology-dependent electromagnetic wave absorbing properties of iron-based absorbers: one-dimensional, two-dimensional, and three-dimensional classification. <i>EPJ Applied Physics</i> , 2019, 87, 20901.	0.3	14
21	A review of metal oxide-related microwave absorbing materials from the dimension and morphology perspective. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 10961-10984.	1.1	103
22	Extended Effective Frequency of Three-Dimensional Graphene with Sustainable Energy Attenuation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10477-10483.	3.2	26
23	Heterostructured TiO ₂ /C/Co from ZIF-67 Frameworks for Microwave-Absorbing Nanomaterials. <i>ACS Applied Nano Materials</i> , 2019, 2, 4451-4461.	2.4	61
24	Structural dependence of the microwave dielectric properties of Cr ³⁺ -substituted ZnGa ₂ O ₄ spinel ceramics: crystal distortion and vibration mode studies. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8261-8268.	2.7	35
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26	Mesoporous carbon hollow spheres as a light weight microwave absorbing material showing modulating dielectric loss. <i>Dalton Transactions</i> , 2019, 48, 10145-10150.	1.6	46
27	Ultrathin and Light-Weight Graphene Aerogel with Precisely Tunable Density for Highly Efficient Microwave Absorbing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46386-46396.	4.0	97
28	Enhanced microwave absorption performance from abundant polarization sites of ZnO nanocrystals embedded in CNTs <i>via</i> confined space synthesis. <i>Nanoscale</i> , 2019, 11, 22539-22549.	2.8	41
29	A biomass derived porous carbon for broadband and lightweight microwave absorption. <i>Scientific Reports</i> , 2019, 9, 18617.	1.6	42
30	Fe/N-Codoped Hollow Carbonaceous Nanospheres Anchored on Reduced Graphene Oxide for Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2019, 2, 8063-8074.	2.4	40
31	Synthesis of rGO/p-Fe ₃ O ₄ @PANI three-phase nanomaterials and electromagnetic wave absorption properties. <i>Materials Research Express</i> , 2019, 6, 125621.	0.8	8
32	Carbon nanocages with N-doped carbon inner shell and Co/N-doped carbon outer shell as electromagnetic wave absorption materials. <i>Chemical Engineering Journal</i> , 2020, 381, 122653.	6.6	408
33	Enhanced microwave absorption properties of barium ferrites by Zr ⁴⁺ -Ni ²⁺ doping and oxygen-deficient sintering. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 494, 165828.	1.0	23
34	Excellent microwave absorbing performance of the sandwich structure absorber Fe@B ₂ O ₃ /MoS ₂ /Fe@B ₂ O ₃ in the Ku-band and X-band. <i>Chemical Engineering Journal</i> , 2020, 382, 122804.	6.6	26
35	Electromagnetic wave absorption enhancement of double-layer structural absorbers based on carbon nanofibers and hollow Co ₂ Y hexaferrite microfibers. <i>Journal of Alloys and Compounds</i> , 2020, 814, 152302.	2.8	30
36	Enhanced microwave absorption properties of (1- λ)CoFe ₂ O ₄ / λ CoFe composites at multiple frequency bands. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 493, 165699.	1.0	44

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38	Graphene oxide/carbon nanotubes/Co Fe ₃ O ₄ ternary nanocomposites: Controllable synthesis and their excellent microwave absorption capabilities. <i>Journal of Alloys and Compounds</i> , 2020, 813, 151996.	2.8	33
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41	Microwave absorption performances of planar anisotropy ferromagnetic Pr ₂ Co ₁₇ flakes prepared by high-energy ball-milling process. <i>Inorganic Chemistry Communication</i> , 2020, 112, 107736.	1.8	5
42	Tailoring electromagnetic absorption performances of TiO ₂ /Co/carbon nanofibers through tuning graphitization degrees. <i>Ceramics International</i> , 2020, 46, 4754-4761.	2.3	29
43	An efficient high-frequency electromagnetic wave absorber: Nickel-N@Carbon composite. <i>Journal of Alloys and Compounds</i> , 2020, 814, 152171.	2.8	23
44	Tunable dielectric loss to enhance microwave absorption properties of flakey FeSiAl /ferrite composites. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153674.	2.8	55
45	N-doped reduced graphene oxide aerogels containing pod-like N-doped carbon nanotubes and FeNi nanoparticles for electromagnetic wave absorption. <i>Carbon</i> , 2020, 159, 357-365.	5.4	185
46	Positive and Reverse Core/Shell Structure Co _x Fe _{3-3x} O ₄ /MoS ₂ and MoS ₂ /Co _x Fe _{3-3x} O ₄ Nanocomposites: Selective Production and Outstanding Electromagnetic Absorption Comprehensive Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 613-622.	3.2	125
47	Hybrid zeolite imidazolate framework derived N-implanted carbon polyhedrons with tunable heterogeneous interfaces for strong wideband microwave attenuation. <i>Carbon</i> , 2020, 159, 83-93.	5.4	118
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49	Mechanical and microwave absorption properties of Ti-filled SiCf/SiC composites via precursor infiltration and pyrolysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2634-2642.	1.1	10
50	3D printing of carbon black/polypropylene composites with excellent microwave absorption performance. <i>Composites Science and Technology</i> , 2020, 200, 108479.	3.8	82
51	Extending effective microwave absorbing bandwidth of CoNi bimetallic alloy derived from binary hydroxides. <i>Scientific Reports</i> , 2020, 10, 16044.	1.6	12
52	Novel ceramic-based microwave absorbents derived from gangue. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14238-14245.	2.7	15
53	Porous carbon materials for microwave absorption. <i>Materials Advances</i> , 2020, 1, 2631-2645.	2.6	60
54	Electromagnetic microwave absorption theory and recent achievements in microwave absorbers. <i>Carbon</i> , 2020, 168, 606-623.	5.4	490

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56	Obtaining Strong, Broadband Microwave Absorption of Polyaniline Through Data-Driven Materials Discovery. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000658.	1.9	45
57	Electromagnetic wave absorption properties in Ku-band of magnetic iron nitrides prepared by high energy ball milling. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 514, 167246.	1.0	6
58	Synthesis of sandwich-like Co ₁₅ Fe ₈₅ @C/RGO multicomponent composites with tunable electromagnetic parameters and microwave absorption performance. <i>Nanoscale</i> , 2020, 12, 18790-18799.	2.8	39
59	A review on electrospinning nanofibers in the field of microwave absorption. <i>Ceramics International</i> , 2020, 46, 26441-26453.	2.3	75
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61	Improved microwave absorbing performance of natural rubber composite with multi-walled carbon nanotubes and molybdenum disulfide hybrids. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2752-2762.	1.6	17
62	Simple Salt-Template Assembly for Layered Heterostructures of C/Ferrite and EG/C/MFe ₂ O ₄ (M = Fe, Co, Ni, Zn) Nanoparticle Arrays toward Superior Microwave Absorption Capabilities. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000736.	1.9	34
63	Core-rim structured carbide MXene/SiO ₂ nanoplates as an ultrathin microwave absorber. <i>Carbon</i> , 2020, 169, 214-224.	5.4	57
64	Implanting FeCo/C nanocages with tunable electromagnetic parameters in anisotropic wood carbon aerogels for efficient microwave absorption. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18863-18871.	5.2	94
65	Highly Compressible Polymer Composite Foams with Thermal Heating-Boosted Electromagnetic Wave Absorption Abilities. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50793-50802.	4.0	47
66	Dielectric properties of polyethersulfone copolymers containing bisphenol S and six fluorine hexafluorobisphenolA (6AF) segments. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	5
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70	Production of hierarchical porous carbon nanosheets from cheap petroleum asphalt toward lightweight and high-performance electromagnetic wave absorbents. <i>Carbon</i> , 2020, 166, 218-226.	5.4	63
71	Regulation of dielectric loss by different exposed crystal facets in graphite-coated titanium carbide nanocomposites. <i>Ceramics International</i> , 2020, 46, 18339-18346.	2.3	19
72	A PDMS modified polyurethane/Ag composite coating with super-hydrophobicity and low infrared emissivity. <i>Infrared Physics and Technology</i> , 2020, 108, 103351.	1.3	13

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74	Self-assembled reduced graphene oxide/nickel nanofibers with hierarchical core-shell structure for enhanced electromagnetic wave absorption. <i>Carbon</i> , 2020, 167, 530-540.	5.4	80
75	Hollow N-doped carbon polyhedra embedded Co and Mo ₂ C nanoparticles for high-efficiency and wideband microwave absorption. <i>Carbon</i> , 2020, 167, 19-30.	5.4	130
76	Correlations between structure and microwave dielectric properties of Co doped MgMoO ₄ ceramics. <i>Ceramics International</i> , 2020, 46, 22024-22029.	2.3	32
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78	Magnetic and electromagnetic properties of Fe/Fe ₃ N composites prepared by high-energy ball milling. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8646-8651.	2.6	4
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81	Scalable self-supported FeNi ₃ /Mo ₂ C flexible paper for enhanced electromagnetic wave absorption evaluated via coaxial, waveguide and arch methods. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10204-10212.	2.7	37
82	Graphene and MXene Nanomaterials: Toward High-Performance Electromagnetic Wave Absorption in Gigahertz Band Range. <i>Advanced Functional Materials</i> , 2020, 30, 2000475.	7.8	356
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84	Confining Tiny MoO ₂ Clusters into Reduced Graphene Oxide for Highly Efficient Low Frequency Microwave Absorption. <i>Small</i> , 2020, 16, e2001686.	5.2	87
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110	Carbonized zeolitic imidazolate framework-67/polypyrrole: A magnetic-dielectric interface for enhanced microwave absorption properties. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 87-96.	5.0	46
111	Tuning of Shells in Trilaminar Core@Shell Nanocomposites in Controlling Electromagnetic Interference through Switching of the Shielding Mechanism. <i>Langmuir</i> , 2020, 36, 4519-4531.	1.6	16
112	Core-shell, wire-in-tube and nanotube structures: Carbon-based materials by molecular layer deposition for efficient microwave absorption. <i>Carbon</i> , 2021, 173, 145-153.	5.4	34
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114	In situ-derived carbon nanotube-decorated nitrogen-doped carbon-coated nickel hybrids from MOF/melamine for efficient electromagnetic wave absorption. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 783-793.	5.0	104
115	Heterostructure design of Fe ₃ N alloy/porous carbon nanosheet composites for efficient microwave attenuation. <i>Journal of Materials Science and Technology</i> , 2021, 67, 265-272.	5.6	134
116	A rational route towards dual wave-transparent type of carbonyl iron@SiO ₂ @heterogeneous state polypyrrole@paraffin composites for electromagnetic wave absorption application. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 84-95.	5.0	39
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119	Spider web-like carbonized bacterial cellulose/MoSe ₂ nanocomposite with enhanced microwave attenuation performance and tunable absorption bands. <i>Nano Research</i> , 2021, 14, 738-746.	5.8	70
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125	Hollow double-shell structured Void@SiO ₂ @Co-C composite for broadband electromagnetic wave absorption. <i>Chemical Engineering Journal</i> , 2021, 417, 128093.	6.6	31
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129	A theoretical strategy of pure carbon materials for lightweight and excellent absorption performance. <i>Carbon</i> , 2021, 174, 662-672.	5.4	98
130	High-performance electromagnetic wave absorption of FeNi/N, S-codoped carbon composites in 2â€40GHz. <i>Carbon</i> , 2021, 174, 201-213.	5.4	45
131	Progress on agricultural residue-based microwave absorber: a review and prospects. <i>Journal of Materials Science</i> , 2021, 56, 4097-4119.	1.7	27
132	From intrinsic dielectric loss to geometry patterns: Dual-principles strategy for ultrabroad band microwave absorption. <i>Nano Research</i> , 2021, 14, 1495-1501.	5.8	182
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134	In situ fabrication of flower-like metallopolymeric superstructure on Nd ₂ Fe ₁₄ B template for enhanced microwave absorption. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 149, 109755.	1.9	11
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