

CITATION REPORT

List of articles citing

Microwave absorption properties of carbon nanocoils coated with highly controlled magnetic materials by atomic layer deposition

DOI: 10.1021/nn304630h
ACS Nano, 2012, 6, 11009-17.

Source: <https://exaly.com/paper-pdf/54040741/citation-report.pdf>

Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
682	Multifunctional Bicontinuous Composite Foams with Ultralow Percolation Thresholds.		
681	Constructing Two, Zero, and One-Dimensional Integrated Nanostructures: an Effective Strategy for High Microwave Absorption Performance.		
680	Nanoporous nitrogen-doped titanium dioxide with excellent photocatalytic activity under visible light irradiation produced by molecular layer deposition. 2013 , 52, 9196-200		65
679	Synthesis and microwave absorption properties of yolk-shell microspheres with magnetic iron oxide cores and hierarchical copper silicate shells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2503-9.5		162
678	Temperature dependent microwave attenuation behavior for carbon-nanotube/silica composites. 2013 , 65, 124-139		793
677	Microstructure and dielectric properties of biocarbon nanofiber composites. 2013 , 8, 293		10
676	Maximizing surface-enhanced Raman scattering sensitivity of surfactant-free Ag-Fe ₃ O ₄ nanocomposites through optimization of silver nanoparticle density and magnetic self-assembly. <i>Journal of Applied Physics</i> , 2013 , 114, 124305	2.5	34
675	Three-dimensional SiO ₂ @Fe ₃ O ₄ core/shell nanorod array/graphene architecture: synthesis and electromagnetic absorption properties. <i>Nanoscale</i> , 2013 , 5, 12296-303	7.7	193
674	Carbon-nanostructures coated/decorated by atomic layer deposition: Growth and applications. 2013 , 257, 3232-3253		83
673	Nanoporous Nitrogen-Doped Titanium Dioxide with Excellent Photocatalytic Activity under Visible Light Irradiation Produced by Molecular Layer Deposition. 2013 , 125, 9366-9370		5
672	Synthesis and excellent electromagnetic absorption properties of polypyrrole-reduced graphene oxide/Co ₃ O ₄ nanocomposites. <i>Journal of Alloys and Compounds</i> , 2013 , 573, 151-156	5.7	84
671	Dumbbell-Like Fe ₃ O ₄ @Au Nanoparticles for Ultrabroadband Electromagnetic Losses by Heterogeneous Interfacial Polarizations. 2013 , 30, 842-846		21
670	The Electromagnetic Interference Shielding Effectiveness of Carbonized Bacterial Cellulose Coated with Nickel by Electroless Plating. 2013 , 395-396, 88-95		2
669	Microwave absorption properties of helical carbon nanofibers-coated carbon fibers. 2013 , 3, 082112		16
668	Preparation, characterization and microwave absorption properties of bamboo-like Bi ₂ C nanowhiskers by molten-salt synthesis. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 5302-5308	2.1	42
667	ZnS nanowall coated Ni composites: facile preparation and enhanced electromagnetic wave absorption. 2014 , 4, 61219-61225		46
666	Enhanced Wave-Absorption Properties of Nanocomposites Based on the Synthesized Bi ₂ S ₃ Nanorods and Polyvinylidene Fluoride. 2014 , 79, 1089-1095		26

665	Improvement of carbon nanocoil purity achieved by supplying catalyst molecules from the vapor phase in chemical vapor deposition. 2014 , 29, 2179-2187		3
664	The enhanced polarization relaxation and excellent high-temperature dielectric properties of N-doped SiC. 2014 , 104, 052102		91
663	Enhanced absorbing properties of three-phase composites based on a thermoplastic-ceramic matrix (BaTiO ₃ + PVDF) and carbon black nanoparticles. 2014 , 2, 18725-18730		77
662	Synthesis and Growth Mechanism of White-Fungus-Like Nickel Sulfide Microspheres, and Their Application in Polymer Composites with Enhanced Microwave-Absorption Properties. 2014 , 79, 569-576		31
661	Two-step reduction of self-assembled three-dimensional (3D) reduced graphene oxide (RGO)/zinc oxide (ZnO) nanocomposites for electromagnetic absorption. 2014 , 2, 20307-20315		107
660	Enhanced Dielectric Properties and Excellent Microwave Absorption of SiC Powders Driven with NiO Nanorings. <i>Advanced Optical Materials</i> , 2014 , 2, 214-219	8.1	251
659	Controllable synthesis of carbon coils and growth mechanism for twinning double-helix catalyzed by Ni nanoparticle. 2014 , 61, 350-357		18
658	Fabrication, microstructure and microwave absorption of multi-walled carbon nanotube decorated with CdS nanocrystal. 2014 , 125, 107-110		25
657	Relationship between the structure of carbon nanocoils and their electrical property. 2014 , 73, 71-77		32
656	Electromagnetic wave absorption properties of graphene modified with carbon nanotube/poly(dimethyl siloxane) composites. 2014 , 73, 185-193		361
655	Facile preparation and extraordinary microwave absorption properties of carbon fibers coated with nanostructured crystalline SnO ₂ . 2014 , 53, 123-131		6
654	Preparation and characterization of chiral polyaniline/barium hexaferrite composite with enhanced microwave absorbing properties. <i>Journal of Alloys and Compounds</i> , 2014 , 593, 24-29	5.7	49
653	Synthesis, characterization and microwave absorption properties of dendrite-like Fe ₃ O ₄ embedded within amorphous sugar carbon matrix. <i>Applied Surface Science</i> , 2014 , 290, 388-397	6.7	34
652	A facile synthesis of superparamagnetic hybrid hollow nanospheres based on monodisperse nickel/zinc ferrite/polyethylene glycol and their electromagnetic, microwave absorbing properties. <i>Journal of Alloys and Compounds</i> , 2014 , 608, 35-43	5.7	19
651	Size-selective catalytic growth of nearly 100% pure carbon nanocoils with copper nanoparticles produced by atomic layer deposition. <i>ACS Nano</i> , 2014 , 8, 5330-8	16.7	52
650	ZnO nanostructures grown on carbon fibers: Morphology control and microwave absorption properties. <i>Journal of Alloys and Compounds</i> , 2014 , 593, 7-15	5.7	28
649	Current progress on the modification of carbon nanotubes and their application in electromagnetic wave absorption. 2014 , 4, 14419		103
648	Microporous Co@CoO nanoparticles with superior microwave absorption properties. <i>Nanoscale</i> , 2014 , 6, 2447-54	7.7	220

647	Synthesis of ferrofluid based nanoarchitected polypyrrole composites and its application for electromagnetic shielding. <i>Materials Chemistry and Physics</i> , 2014 , 143, 806-813	4.4	50
646	Growth of Fe ₃ O ₄ nanorod arrays on graphene sheets for application in electromagnetic absorption fields. 2014 , 15, 2261-6		42
645	Reduced graphene oxides: the thinnest and most lightweight materials with highly efficient microwave attenuation performances of the carbon world. <i>Nanoscale</i> , 2014 , 6, 5754-61	7.7	308
644	Controllable synthesis of uniform ZnO nanorods and their enhanced dielectric and absorption properties. 2014 , 2, 8644-8651		125
643	CoFe ₂ O ₄ and/or Co ₃ Fe ₇ loaded porous activated carbon balls as a lightweight microwave absorbent. 2014 , 16, 12385-92		73
642	Cross-stacking aligned carbon-nanotube films to tune microwave absorption frequencies and increase absorption intensities. 2014 , 26, 8120-5		548
641	Synthesis and characterization of FeCo/C hybrid nanofibers with high performance of microwave absorption. 2014 , 60, 589-595		45
640	One-step synthesis of graphene/polyaniline hybrids by in situ intercalation polymerization and their electromagnetic properties. <i>Nanoscale</i> , 2014 , 6, 8140-8	7.7	188
639	Synthesis, characterization and excellent electromagnetic wave absorption properties of graphene/poly (3,4-ethylenedioxythiophene) hybrid materials with Fe ₃ O ₄ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 511-517	5.7	32
638	Shell thickness-dependent microwave absorption of core-shell Fe ₃ O ₄ @C composites. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12997-3006	9.5	700
637	Electromagnetic and microwave absorbing properties of RGO@hematite core-shell nanostructure/PVDF composites. 2014 , 102, 126-131		54
636	Fabrication of Fe ₃ O ₄ @C core-shell nanotubes and their application as a lightweight microwave absorbent. 2014 , 4, 55738-55744		48
635	Multi-wall carbon nanotubes decorated with ZnO nanocrystals: mild solution-process synthesis and highly efficient microwave absorption properties at elevated temperature. 2014 , 2, 10540		341
634	In Situ Synthesis of Polypyrrole-Fe ₂ O ₃ -Fly Ash Nanocomposites for Protection against EMI Pollution. 2014 , 53, 14282-14290		71
633	Electromagnetic properties and microwave absorption enhancement of Ba _{0.85} RE _{0.15} Co ₂ Fe ₁₆ O ₂₇ -polyaniline composites: RE = Gd, Tb, Ho. 2014 , 292, 2173-2183		19
632	Microwave absorption properties of carbon fibers with carbon coils of different morphologies (double microcoils and single nanocoils) grown on them. 2014 , 49, 4379-4386		27
631	Enhanced electromagnetic wave absorption properties of polyaniline-coated Fe ₃ O ₄ /reduced graphene oxide nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 3664-3673	7.7	48
630	Chemoselectivity-induced multiple interfaces in MWCNT/Fe ₃ O ₄ @ZnO heterotrimers for whole X-band microwave absorption. <i>Nanoscale</i> , 2014 , 6, 12298-302	7.7	164

629	High densities of magnetic nanoparticles supported on graphene fabricated by atomic layer deposition and their use as efficient synergistic microwave absorbers. <i>Nano Research</i> , 2014 , 7, 704-716	10	274
628	Highly ordered porous carbon/wax composites for effective electromagnetic attenuation and shielding. 2014 , 77, 130-142		242
627	Microwave absorbing properties of Fe ₃ O ₄ /poly(3, 4-ethylenedioxythiophene) hybrids in low-frequency band. 2014 , 25, 83-88		25
626	Reduced graphene oxides: light-weight and high-efficiency electromagnetic interference shielding at elevated temperatures. 2014 , 26, 3484-9		1135
625	Enhanced electromagnetic wave absorption performances of Co ₃ O ₄ nanocube/reduced graphene oxide composite. 2014 , 194, 52-58		88
624	A General Perspective of the Characterization and Quantification of Nanoparticles: Imaging, Spectroscopic, and Separation Techniques. 2014 , 39, 423-458		59
623	Synthesis and microwave absorbing properties of quasioe-dimensional mesoporous NiCo ₂ O ₄ nanostructure. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 240-244	5-7	81
622	Morphology-controllable synthesis of carbon nanomaterials directly on Al ₂ O ₃ substrates, and their photoluminescence. 2015 , 5, 89900-89905		2
621	Synthesis, conductivity, and electromagnetic wave absorption properties of chiral poly Schiff bases and their silver complexes. 2015 , 132, n/a-n/a		4
620	Synthesis of Helical Carbon Fibers and Related Materials: A Review on the Past and Recent Developments. <i>Nanomaterials</i> , 2015 , 5, 937-968	5-4	15
619	In situ synthesis of ternary BaTiO ₃ /MWNT/PBO electromagnetic microwave absorption composites with excellent mechanical properties and thermostabilities. 2015 , 3, 8205-8214		36
618	Ultrathin graphene: electrical properties and highly efficient electromagnetic interference shielding. 2015 , 3, 6589-6599		457
617	Mesoporous Fe/C and CoreShell Fe@Fe ₃ C@C composites as efficient microwave absorbers. 2015 , 211, 97-104		39
616	Fe ₃ O ₄ nanopearl decorated carbon nanotubes stemming from carbon onions with self-cleaning and microwave absorption properties. 2015 , 5, 54175-54181		15
615	Effect of annealing temperature on the structure of carbon encapsulated Fe ₃ O ₄ nanospheres. 2015 , 5, 106787-106794		13
614	Preparation of Honeycomb SnO ₂ Foams and Configuration-Dependent Microwave Absorption Features. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26217-25	9-5	142
613	Enhanced microwave absorption of ZnO coated with Ni nanoparticles produced by atomic layer deposition. 2015 , 3, 2734-2740		169
612	Broadband and tunable high-performance microwave absorption of an ultralight and highly compressible graphene foam. 2015 , 27, 2049-53		1252

611	Preparation and microwave absorption mechanisms of the NiZn ferrite nanofibers. <i>Journal of Alloys and Compounds</i> , 2015 , 627, 367-373	5-7	221
610	Designed fabrication and characterization of three-dimensionally ordered arrays of core-shell magnetic mesoporous carbon microspheres. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5312-9	9-5	94
609	Synthesis and electromagnetic, microwave absorbing properties of polyaniline/graphene oxide/Fe ₃ O ₄ nanocomposites. 2015 , 5, 19345-19352		64
608	Single-crystal octahedral CoFe ₂ O ₄ nanoparticles loaded on carbon balls as a lightweight microwave absorbent. <i>Journal of Alloys and Compounds</i> , 2015 , 633, 11-17	5-7	22
607	Cobalt/polypyrrole nanocomposites with controllable electromagnetic properties. <i>Nanoscale</i> , 2015 , 7, 7189-96	7-7	99
606	Hyperbranched copper phthalocyanine decorated Fe ₃ O ₄ microspheres with extraordinary microwave absorption properties. 2015 , 5, 7018-7022		21
605	Facile synthesis of crumpled ZnS net-wrapped Ni walnut spheres with enhanced microwave absorption properties. 2015 , 5, 9806-9814		58
604	Insights into a microwave susceptible agent for minimally invasive microwave tumor thermal therapy. 2015 , 44, 91-102		58
603	NiFe ₂ O ₄ , Fe ₃ O ₄ @xNi _y or Fe _x Ni _y loaded porous activated carbon balls as lightweight microwave absorbents. 2015 , 5, 8248-8257		18
602	Simulation and modeling of alignment-free field emission X-ray tubes. 2015 , 39, 5896-5906		1
601	Y-junction carbon nanocoils: synthesis by chemical vapor deposition and formation mechanism. 2015 , 5, 11281		17
600	High-performance microwave absorption of flexible nanocomposites based on flower-like Co superstructures and polyvinylidene fluoride. 2015 , 5, 55468-55473		29
599	Co ²⁺ /Co ³⁺ ratio dependence of electromagnetic wave absorption in hierarchical NiCo ₂ O ₄ @CoNiO ₂ hybrids. 2015 , 3, 7677-7690		364
598	NiO hierarchical nanorings on SiC: enhancing relaxation to tune microwave absorption at elevated temperature. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7073-7	9-5	296
597	Stacking fault and unoccupied densities of state dependence of electromagnetic wave absorption in SiC nanowires. 2015 , 3, 4416-4423		112
596	One-pot synthesis of biomass-derived carbonaceous spheres for excellent microwave absorption at the Ku band. 2015 , 5, 40531-40535		35
595	Enhanced permittivity and multi-region microwave absorption of nanoneedle-like ZnO in the X-band at elevated temperature. 2015 , 3, 4670-4677		199
594	3D Fe ₃ O ₄ nanocrystals decorating carbon nanotubes to tune electromagnetic properties and enhance microwave absorption capacity. 2015 , 3, 12621-12625		240

593	Hydrophobic graphene nanosheets decorated by monodispersed superparamagnetic Fe ₃ O ₄ nanocrystals as synergistic electromagnetic wave absorbers. 2015 , 3, 4452-4463		152
592	In situ synthesis of novel urchin-like ZnS/Ni ₃ S ₂ @Ni composite with a core-shell structure for efficient electromagnetic absorption. 2015 , 3, 10862-10869		95
591	Preparation and microwave absorption properties of uniform TiO ₂ @C core-shell nanocrystals. 2015 , 5, 77443-77448		35
590	Preparation and microwave absorption property of graphene/BaFe ₁₂ O ₁₉ /CoFe ₂ O ₄ nanocomposite. <i>Applied Surface Science</i> , 2015 , 357, 1289-1293	6.7	59
589	A facile hydrothermal synthesis of MnO ₂ nanorod-reduced graphene oxide nanocomposites possessing excellent microwave absorption properties. 2015 , 5, 88979-88988		89
588	Uniform Fe ₃ O ₄ coating on flower-like ZnO nanostructures by atomic layer deposition for electromagnetic wave absorption. <i>Dalton Transactions</i> , 2015 , 44, 18804-9	4.3	46
587	Corrosive synthesis and enhanced electromagnetic absorption properties of hollow porous Ni/SnO ₂ hybrids. <i>Dalton Transactions</i> , 2015 , 44, 15984-93	4.3	88
586	Effective improvement in microwave absorption by uniform dispersion of nanodiamond in polyaniline through in-situ polymerization. 2015 , 106, 233103		17
585	Facile Synthesis of Novel Heterostructure Based on SnO ₂ Nanorods Grown on Submicron Ni Walnut with Tunable Electromagnetic Wave Absorption Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18815-23	9.5	153
584	Fe-, Co-, and Ni-Loaded Porous Activated Carbon Balls as Lightweight Microwave Absorbents. 2015 , 16, 3458-67		19
583	Preparation of flexible reduced graphene oxide/poly(vinyl alcohol) film with superior microwave absorption properties. 2015 , 5, 88958-88964		48
582	Multiscale Assembly of Grape-Like Ferroferric Oxide and Carbon Nanotubes: A Smart Absorber Prototype Varying Temperature to Tune Intensities. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19408-15	9.5	267
581	Facile synthesis of (Ni,Co)@(Ni,Co) _x Fe _{3-x} O ₄ core@shell chain structures and (Ni,Co)@(Ni,Co) _x Fe _{3-x} O ₄ /graphene composites with enhanced microwave absorption. 2015 , 5, 70849-70855		19
580	Highly Anti-UV Properties of Silk Fiber with Uniform and Conformal Nanoscale TiO ₂ Coatings via Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21326-33	9.5	58
579	Facile chemical synthesis, electromagnetic response, and enhanced microwave absorption of cobalt powders with controllable morphologies. 2015 , 143, 084707		20
578	Modulation of electromagnetic wave absorption by carbon shell thickness in carbon encapsulated magnetite nanospindles/poly(vinylidene fluoride) composites. 2015 , 95, 870-878		158
577	High-efficiency and dynamic stable electromagnetic wave attenuation for La doped bismuth ferrite at elevated temperature and gigahertz frequency. 2015 , 5, 77184-77191		56
576	Constructing Uniform Core-Shell PPy@PANI Composites with Tunable Shell Thickness toward Enhancement in Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20090-9	9.5	343

575	Nd doping of bismuth ferrite to tune electromagnetic properties and increase microwave absorption by magnetic dielectric synergy. 2015 , 3, 9276-9282		107
574	Temperature dependent microwave absorption of ultrathin graphene composites. 2015 , 3, 10017-10022		358
573	Ferromagnetic hierarchical carbon nanofiber bundles derived from natural collagen fibers: truly lightweight and high-performance microwave absorption materials. 2015 , 3, 10146-10153		63
572	Carbon nanotubes modified with ZnO nanoparticles: High-efficiency electromagnetic wave absorption at high-temperatures. <i>Ceramics International</i> , 2015 , 41, 4906-4915	5.1	59
571	Remarkable improvement in microwave absorption by cloaking a micro-scaled tetrapod hollow with helical carbon nanofibers. 2015 , 17, 3024-31		48
570	High yield synthesis and photoluminescence properties of carbon coils over Al ₂ O ₃ substrates. <i>Diamond and Related Materials</i> , 2015 , 51, 30-33	3.5	5
569	Hollow CoFe ₂ O ₄ @Co ₃ Fe ₇ microspheres applied in electromagnetic absorption. 2015 , 377, 259-266		32
568	Preparation and excellent microwave absorption properties of silver/strontium ferrite/graphite nanosheet composites via sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 10045-10051	2.1	12
567	Lightweight hollow carbon nanospheres with tunable sizes towards enhancement in microwave absorption. 2016 , 108, 234-241		173
566	Development of Novel Graphene/g-C ₃ N ₄ Composite with Broad-Frequency and Light-Weight Features. 2016 , 33, 656-663		53
565	A proposed electron transmission mechanism between Fe ³⁺ /Co ²⁺ and Fe ³⁺ /Fe ³⁺ in the spinel structure and its practical evidence in quaternary Fe _{0.5} Ni _{0.5} Co ₂ S ₄ . 2016 , 4, 5476-5482		28
564	Porous CNTs/Co Composite Derived from Zeolitic Imidazolate Framework: A Lightweight, Ultrathin, and Highly Efficient Electromagnetic Wave Absorber. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34686-34698	9.5	306
563	Spin-Crossover Materials towards Microwave Radiation Switches. 2016 , 6, 38334		16
562	Three-dimensional (3D) Fe ₂ O ₃ /polypyrrole (PPy) nanocomposite for effective electromagnetic absorption. 2016 , 6, 065021		15
561	Electrochemical properties of carbon nanocoils and hollow graphite fibers as anodes for rechargeable lithium ion batteries. 2016 , 199, 204-209		24
560	Hierarchical chrysanthemum-flower-like carbon nanomaterials grown by chemical vapor deposition. 2016 , 27, 085602		5
559	Dielectric and microwave absorption properties of TiO ₂ /Al ₂ O ₃ coatings and improved microwave absorption by FSS incorporation. <i>Journal of Alloys and Compounds</i> , 2016 , 678, 527-532	5.7	24
558	3D and ternary rGO/MCNTs/Fe ₃ O ₄ composite hydrogels: Synthesis, characterization and their electromagnetic wave absorption properties. <i>Journal of Alloys and Compounds</i> , 2016 , 665, 381-387	5.7	128

557	High-Magnetization FeCo Nanochains with Ultrathin Interfacial Gaps for Broadband Electromagnetic Wave Absorption at Gigahertz. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3494-8	9.5	118
556	Carbon nanotube-CdS core-shell nanowires with tunable and high-efficiency microwave absorption at elevated temperature. 2016 , 27, 065702		104
555	Interfacial interactions and synergistic effect of CoNi nanocrystals and nitrogen-doped graphene in a composite microwave absorber. 2016 , 104, 214-225		275
554	Preparation and microwave absorption property of graphene-supported CoFe ₂ O ₄ /Y ₃ Fe ₅ O ₁₂ nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 8177-8182	2.1	7
553	Highly stable microwave susceptible agents via encapsulation of Ti-mineral superfine powders in urea-formaldehyde resin microcapsules for tumor hyperthermia therapy. <i>Nanoscale</i> , 2016 , 8, 11044-51	7.7	15
552	Composition and structure control of ultralight graphene foam for high-performance microwave absorption. 2016 , 105, 438-447		310
551	Unusual continuous dual absorption peaks in Ca-doped BiFeO ₃ nanostructures for broadened microwave absorption. <i>Nanoscale</i> , 2016 , 8, 10415-24	7.7	128
550	Self-Supported Construction of Three-Dimensional MoS ₂ Hierarchical Nanospheres with Tunable High-Performance Microwave Absorption in Broadband. 2016 , 120, 22019-22027		135
549	Fabrication of hierarchical TiO coated CoNi particles with tunable core sizes as high-performance wide-band microwave absorbers. 2016 , 18, 26712-26718		24
548	Fe ₃ C/helical carbon nanotube hybrid: Facile synthesis and spin-induced enhancement in microwave-absorbing properties. 2016 , 107, 51-58		65
547	Facile synthesis of net-like Fe ₃ O ₄ /MWCNTs decorated by SnO ₂ nanoparticles as a highly efficient microwave absorber. 2016 , 6, 97142-97151		31
546	Yolk-Shell Ni@SnO Composites with a Designable Interspace To Improve the Electromagnetic Wave Absorption Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28917-28925	9.5	416
545	Hybrid magnetic nanocomposites containing polyconjugated polymers. 2016 , 58, 131-146		4
544	Enhanced electromagnetic properties and microwave attenuation of BiFeO ₃ -BaFe ₇ (MnTi) ₂ . ₅ O ₁₉ driven by multi-relaxation and strong ferromagnetic resonance. 2016 , 110, 99-104		28
543	Synthesis and microwave absorption property of two-dimensional porous nickel oxide nanoflakes/carbon nanotubes nanocomposites with a threaded structure. <i>Journal of Alloys and Compounds</i> , 2016 , 689, 366-373	5.7	24
542	Tailoring PtFe ₂ O ₃ Interfaces for Selective Reductive Coupling Reaction To Synthesize Imine. 2016 , 6, 6560-6566		54
541	Superparamagnetic Fe ₃ O ₄ /MWCNTs heterostructures for high frequency microwave absorption. 2016 , 6, 67218-67225		16
540	Highly effective synthesis of NiO/CNT nanohybrids by atomic layer deposition for high-rate and long-life supercapacitors. <i>Dalton Transactions</i> , 2016 , 45, 13779-86	4.3	59

539	Temperature dependence of the electromagnetic properties of graphene nanosheet reinforced alumina ceramics in the X-band. 2016 , 4, 4853-4862			132
538	Constructing Two-, Zero-, and One-Dimensional Integrated Nanostructures: an Effective Strategy for High Microwave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31878-31886	8.5		66
537	2D MoS ₂ /graphene composites with excellent full Ku band microwave absorption. 2016 , 6, 106187-106193			50
536	Synthesis of Cu and Ni chalcogenides and evaluation of their properties for electromagnetic wave absorption. 2016 , 6, 102472-102481			11
535	Thermal frequency shift and tunable microwave absorption in BiFeO ₃ family. 2016 , 6, 24837			61
534	Carbon Nanoparticles and Nanostructures. 2016 ,			14
533	One-Dimensional Carbon Nanostructures: Low-Temperature Chemical Vapor Synthesis and Applications. 2016 , 47-76			3
532	Engineering carbon fibers with dual coatings of FeCo and CuO towards enhanced microwave absorption properties. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 334-341	5.7		29
531	Polybenzobisoxazoles-based nanocomposites with high microwave absorption performance and excellent thermal stability. 2016 , 99, 605-613			4
530	Tuning the microwave absorption through engineered nanostructures in co-continuous polymer blends. 2016 , 3, 064002			28
529	Low material density and high microwave-absorption performance of hollow strontium ferrite nanofibers prepared via coaxial electrospinning. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 541-547	5.7		28
528	Nanoscale polygonal carbon: a unique low-loading filler for effective microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 8159-8168	2.1		4
527	Synthesis and characterization of graphene/0.8BaFe ₁₂ O ₁₉ /0.2Y ₃ Fe ₅ O ₁₂ nanocomposite. <i>Journal of Alloys and Compounds</i> , 2016 , 683, 559-566	5.7		7
526	Ni ₃ Sn ₂ alloy nanocrystals encapsulated within electrospun carbon nanofibers for enhanced microwave absorption performance. <i>Materials Chemistry and Physics</i> , 2016 , 177, 198-205	4.4		25
525	Enhanced microwave absorption properties and mechanism of core/shell structured magnetic nanoparticles/carbon-based nanohybrids. 2016 , 211, 53-60			22
524	A CNT cocoon on sodium manganate nanotubes forming a core/branch cathode coupled with a helical carbon nanofibre anode for enhanced sodium ion batteries. 2016 , 4, 11207-11213			80
523	CoNi@SiO ₂ @TiO ₂ and CoNi@Air@TiO ₂ Microspheres with Strong Wideband Microwave Absorption. 2016 , 28, 486-90			1053
522	Alternate nonmagnetic and magnetic multilayer nanofilms deposited on carbon nanocoils by atomic layer deposition to tune microwave absorption property. 2016 , 98, 196-203			95

521	Excellent Electromagnetic Absorption Capability of Ni/Carbon Based Conductive and Magnetic Foams Synthesized via a Green One Pot Route. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1468-77	9.5	189
520	Fabrication and absorption properties based on ZnO nanocomposites adjusted by length/diameter ratio of ZnO nanorods. 2016 , 18, 4027-4031		19
519	Design of porous C@Fe ₃ O ₄ hybrid nanotubes with excellent microwave absorption. 2016 , 18, 2510-6		96
518	Fe ₃ C/C microspheres as a lightweight microwave absorbent. 2016 , 6, 24820-24826		35
517	Synthesis of monodispersed Fe ₃ O ₄ @C core/shell nanoparticles. 2016 , 59, 394-397		9
516	Dielectric and microwave absorption properties of TiAlCo ceramic fabricated by atmospheric plasma spraying. <i>Ceramics International</i> , 2016 , 42, 8525-8530	5.1	21
515	Co/C nanoparticles with low graphitization degree: a high performance microwave-absorbing material. 2016 , 4, 1727-1735		257
514	A novel Co/TiO ₂ nanocomposite derived from a metal-organic framework: synthesis and efficient microwave absorption. 2016 , 4, 1860-1870		280
513	Facile Synthesis of Fe ₃ O ₄ /GCs Composites and Their Enhanced Microwave Absorption Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6101-9	9.5	407
512	Synthesis of microporous Ni/NiO nanoparticles with enhanced microwave absorption properties. <i>Journal of Alloys and Compounds</i> , 2016 , 667, 287-296	5.7	49
511	Mn, Ti substituted barium ferrite to tune electromagnetic properties and enhanced microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 5128-5135	2.1	14
510	Recent progress in Fe ₃ O ₄ based magnetic nanoparticles: from synthesis to application. 2016 , 1-13		4
509	Fabrication of carbon-coated NiO supported on graphene for high performance supercapacitors. 2016 , 6, 14199-14204		32
508	Synthesis and characterization of CoFe ₂ O ₄ /Y ₃ Fe ₅ O ₁₂ composites based on polyaniline. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 4833-4838	2.1	6
507	High frequency millimetre wave absorbers derived from polymeric nanocomposites. 2016 , 84, 398-419		154
506	A simple one-step approach to fabrication of highly hydrophobic silk fabrics. <i>Applied Surface Science</i> , 2016 , 360, 207-212	6.7	33
505	Fabrication, characterization, purification and photoluminescence properties of carbon nanomaterials over water-soluble alkali salts. 2016 , 74, 218-225		3
504	Microwave absorption properties of FeCo-coated carbon fibers with varying morphologies. 2016 , 399, 252-259		67

503	Microwave Radar Absorbing Properties of Multiwalled Carbon Nanotubes Polymer Composites: A Review. 2017 , 36, 362-370		48
502	High-purity synthesis of helical carbon nanofibers and application for energy devices. 2017 , 72, 317-321		2
501	Chiral induced synthesis of helical polypyrrole (PPy) nano-structures: a lightweight and high-performance material against electromagnetic pollution. 2017 , 5, 2175-2181		105
500	Co/graphite based light weight microwave absorber for electromagnetic shielding and stealth applications. 2017 , 4, 016304		18
499	Metal-organic-frameworks derived porous carbon-wrapped Ni composites with optimized impedance matching as excellent lightweight electromagnetic wave absorber. <i>Chemical Engineering Journal</i> , 2017 , 313, 734-744	14.7	381
498	Switching the electromagnetic properties of multicomponent porous carbon materials derived from bimetallic metal-organic frameworks: effect of composition. <i>Dalton Transactions</i> , 2017 , 46, 3700-3709	4.3	49
497	A facile self-template strategy for synthesizing 1D porous Ni@C nanorods towards efficient microwave absorption. 2017 , 28, 115704		64
496	Highly Efficient Microwave Absorption of Magnetic Nanospindle-Conductive Polymer Hybrids by Molecular Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11116-11125	9.5	70
495	Hierarchical porous Ni@boehmite/nickel aluminum oxide flakes with enhanced microwave absorption ability. 2017 , 19, 9128-9136		98
494	A universal permittivity-attenuation evaluation diagram for accelerating design of dielectric-based microwave absorption materials: A case of graphene-based composites. 2017 , 118, 86-97		45
493	A wearable microwave absorption cloth. 2017 , 5, 2432-2441		74
492	Lightweight ferroferric oxide nanotubes with natural resonance property and design for broadband microwave absorption. 2017 , 52, 8258-8267		42
491	Synergistic Enhancement of Microwave Absorption Using Hybridized Polyaniline@helical CNTs with Dual Chirality. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15711-15718	9.5	131
490	Super-light Cu@Ni nanowires/graphene oxide composites for significantly enhanced microwave absorption performance. 2017 , 7, 1584		51
489	Highly efficient large-scale preparation and electromagnetic property control of silica@NiFeP double shell composite hollow particles. 2017 , 7, 21721-21732		4
488	Facile Synthesis and Hierarchical Assembly of Flowerlike NiO Structures with Enhanced Dielectric and Microwave Absorption Properties. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 16404-16416	9.5	236
487	An injectable ionic hydrogel inducing high temperature hyperthermia for microwave tumor ablation. 2017 , 5, 4110-4120		24
486	Designing high-performance electromagnetic wave absorption materials based on polymeric graphene-based dielectric composites: from fabrication technology to periodic pattern design. 2017 , 5, 6745-6754		25

485	Carbon fiber/Si ₃ N ₄ composites with SiC nanofiber interphase for enhanced microwave absorption properties. <i>Ceramics International</i> , 2017 , 43, 12328-12332	5.1	67
484	A facile one-pot strategy for fabrication of carbon-based microwave absorbers: effects on annealing and paraffin content. <i>Dalton Transactions</i> , 2017 , 46, 9097-9102	4.3	23
483	High-temperature annealing of an iron microplate with excellent microwave absorption performance and its direct micromagnetic analysis by electron holography and Lorentz microscopy. 2017 , 5, 6047-6053		30
482	Ultralight Fe@C Nanocapsules/Sponge Composite with Reversibly Tunable Microwave Absorption Performances. 2017 , 28, 325702		22
481	Facile fabrication of carbon microspheres decorated with B(OH) and Fe ₃ O ₄ nanoparticles: Superior microwave absorption. 2017 , 505, 402-409		38
480	Nitrogen-doped graphene and titanium carbide nanosheet synergistically reinforced epoxy composites as high-performance microwave absorbers. 2017 , 7, 27755-27761		60
479	Enhanced microwave absorption properties of graphite nanoflakes by coating hexagonal boron nitride nanocrystals. <i>Applied Surface Science</i> , 2017 , 420, 858-867	6.7	33
478	Electromagnetic microwave absorption properties of carbon nanocoils/tissue. <i>Diamond and Related Materials</i> , 2017 , 77, 53-56	3.5	12
477	Mild microwave activated, chemo-thermal combinational tumor therapy based on a targeted, thermal-sensitive and magnetic micelle. 2017 , 131, 36-46		45
476	Fe ₃ O ₄ Nanoparticles Embedded Hollow Mesoporous Carbon Nanofibers and Polydimethylsiloxane-Based Nanocomposites as Efficient Microwave Absorber. 2017 , 121, 7810-7820		57
475	Rice husk-based hierarchically porous carbon and magnetic particles composites for highly efficient electromagnetic wave attenuation. 2017 , 5, 4695-4705		112
474	Flexible, hydrophobic SiC ceramic nanofibers used as high frequency electromagnetic wave absorbers. <i>Ceramics International</i> , 2017 , 43, 7424-7435	5.1	56
473	Facile synthesis of novel octopus-like carbon nanostructures by chemical vapor deposition. <i>Diamond and Related Materials</i> , 2017 , 74, 145-153	3.5	4
472	A brief introduction to the fabrication and synthesis of graphene based composites for the realization of electromagnetic absorbing materials. 2017 , 5, 491-512		257
471	Enhanced Microwave Absorption Performance of Coated Carbon Nanotubes by Optimizing the FeO Nanocoating Structure. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2973-2983	9.5	338
470	Synergistic interactions between silver decorated graphene and carbon nanotubes yield flexible composites to attenuate electromagnetic radiation. 2017 , 28, 025201		24
469	Synthesis of lightweight and flexible composite aerogel of mesoporous iron oxide threaded by carbon nanotubes for microwave absorption. <i>Journal of Alloys and Compounds</i> , 2017 , 697, 138-146	5.7	48
468	Hierarchical NiAl LDH nanotubes constructed via atomic layer deposition assisted method for high performance supercapacitors. 2017 , 255, 15-22		45

467	Broadening Electromagnetic Absorption Bandwidth: Design from Microscopic Dielectric-Magnetic Coupled Absorbers to Macroscopic Patterns. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1700589	1.6	13
466	Constructing hierarchical porous nanospheres for versatile microwave response approaches: the effect of architectural design. <i>Dalton Transactions</i> , 2017 , 46, 14264-14269	4.3	11
465	Fe ₃ O ₄ @ Trilaminar CoreShell Composites as Superior Microwave Absorber in Shielding of Electromagnetic Pollution. 2017 , 5, 10710-10721		107
464	Enhanced microwave-absorption performance of FeCoB/Polyimide-Graphene composite by electric field modulation. 2017 , 152, 222-230		19
463	Performance Vs Convenience of Magnetic Carbon-Metal Nanocomposites: A Low-Cost and Facile Citrate-Derived Strategy for Feco Alloy/Carbon Composites with High-Performance Microwave Absorption. 2017 , 37, 301-326		11
462	Tailoring the input impedance of FeCo/C composites with efficient broadband absorption. <i>Dalton Transactions</i> , 2017 , 46, 14926-14933	4.3	60
461	Facile solvothermal synthesis of novel hetero-structured CoNiCuO composites with excellent microwave absorption performance. 2017 , 7, 43689-43699		19
460	Synthesis of Ag@SrFe ₁₂ O ₁₉ @carbon fiber microwave absorption composite and its application in PVC resin. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 18944-18950	2.1	0
459	Lightweight porous Co ₃ O ₄ and Co/CoO nanofibers with tunable impedance match and configuration-dependent microwave absorption properties. 2017 , 19, 6095-6106		74
458	Atomic Layer Deposition of p-Type Semiconducting Thin Films: a Review. 2017 , 4, 1700300		32
457	Water-assisted and controllable synthesis of core/shell/shell structured carbon-based nanohybrids, and their magnetic and microwave absorption properties. 2017 , 7, 9851		8
456	MoS ₂ -Based Mixed-Dimensional van der Waals Heterostructures: A New Platform for Excellent and Controllable Microwave-Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34243-34255	9.5	96
455	Preparation of porous FeO nanorods-reduced graphene oxide nanohybrids and their excellent microwave absorption properties. 2017 , 7, 11213		31
454	Solvothermal synthesis of three-dimensional, Fe ₂ O ₃ NPs-embedded CNT/N-doped graphene composites with excellent microwave absorption performance. 2017 , 7, 45156-45169		54
453	Dependence of gigahertz microwave absorption on the mass fraction of Co@C nanocapsules in composite. <i>Journal of Alloys and Compounds</i> , 2017 , 724, 1023-1029	5.7	45
452	Microwave Absorption Properties of CoS Nanocrystals Embedded into Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28868-28875	9.5	169
451	Towards outstanding dielectric consumption derived from designing one-dimensional mesoporous MoO ₂ /C hybrid heteronanowires. 2017 , 5, 8981-8987		40
450	Design and Properties of Confined Nanocatalysts by Atomic Layer Deposition. 2017 , 50, 2309-2316		97

449	Constructing Repairable Meta-Structures of Ultra-Broad-Band Electromagnetic Absorption from Three-Dimensional Printed Patterned Shells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43179-43187	8.5	52
448	Strong contribution of in situ grown nanowires to enhance the thermostabilities and microwave absorption properties of porous graphene foams under different atmospheres. 2017 , 5, 11837-11846		36
447	Synthesis and microwave absorbing properties of Fe ₂ O ₃ @SiO ₂ @poly(3,4-ethylenedioxythiophene) core-shell-shell nanocomposites. 2017 , 52, 12358-12369		12
446	Coaxial multi-interface hollow Ni-Al ₂ O ₃ -ZnO nanowires tailored by atomic layer deposition for selective-frequency absorptions. <i>Nano Research</i> , 2017 , 10, 1595-1607	10	62
445	Dipolar-Distribution Cavity Fe ₃ O ₄ @C@MnO Nanospindle with Broadened Microwave Absorption Bandwidth by Chemically Etching. 2017 , 13, 1602779		163
444	Rational design of core-shell Co@C microspheres for high-performance microwave absorption. 2017 , 111, 722-732		493
443	Facile synthesis of yolk-shell Ni@void@SnO ₂ (Ni ₃ Sn ₂) ternary composites via galvanic replacement/Kirkendall effect and their enhanced microwave absorption properties. <i>Nano Research</i> , 2017 , 10, 331-343	10	288
442	Enhanced microwave absorption of plasma-sprayed Ti ₃ SiC ₂ /glass composite coatings. 2017 , 52, 832-842		18
441	The Preparation of Au@TiO ₂ Yolk-Shell Nanostructure and its Applications for Degradation and Detection of Methylene Blue. 2017 , 12, 535		24
440	Hierarchically Porous Carbons Derived from Biomasses with Excellent Microwave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11108-11115	9.5	217
439	Atomic layer deposition assisted fabrication of high-purity carbon nanocoil for electrochemical energy storage. 2018 , 268, 283-294		17
438	Structural and Carbonized Design of 1D FeNi/C Nanofibers with Conductive Network to Optimize Electromagnetic Parameters and Absorption Abilities. 2018 , 6, 7239-7249		104
437	Low Temperature, Selective Atomic Layer Deposition of Nickel Metal Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14200-14208	9.5	21
436	A facile fabrication and highly tunable microwave absorption of 3D flower-like Co ₃ O ₄ -rGO hybrid-architectures. <i>Chemical Engineering Journal</i> , 2018 , 339, 487-498	14.7	311
435	From nanoscale to macroscale: Engineering biomass derivatives with nitrogen doping for tailoring dielectric properties and electromagnetic absorption. <i>Applied Surface Science</i> , 2018 , 439, 176-185	6.7	17
434	Facile synthesis and enhanced microwave absorption properties of multiferroic Ni _{0.4} Co _{0.2} Zn _{0.4} Fe ₂ O ₄ /BaTiO ₃ composite fibers. <i>Journal of Alloys and Compounds</i> , 2018 , 737, 412-420	5.7	55
433	Enhanced Microwave Absorption Properties of FeNi Nanocrystals Decorating Reduced Graphene Oxide. 2018 , 255, 1700553		8
432	Microwave absorption properties of Fe ₂ O ₃ /(SiO ₂) _x BO ₃ H/polypyrrole core/shell/shell microspheres. 2018 , 53, 5270-5286		20

431	Electromagnetic absorption behaviour of ferrite loaded three phase carbon fabric composites. 2018 , 27, 025004		6
430	A facile synthesis of a cobalt nanoparticle-graphene nanocomposite with high-performance and triple-band electromagnetic wave absorption properties.. 2018 , 8, 1210-1217		12
429	Facile synthesis and wide-band electromagnetic wave absorption properties of carbon-coated ZnO nanorods. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018 , 26, 398-403	1.8	3
428	Ultra-light h-BCN architectures derived from new organic monomers with tunable electromagnetic wave absorption. 2018 , 136, 345-358		49
427	CNFs@carbonaceous Co/CoO composite derived from CNFs penetrated through ZIF-67 for high-efficient electromagnetic wave absorption material. <i>Journal of Alloys and Compounds</i> , 2018 , 752, 115-122	5.7	44
426	Microwave absorption by watermelon-like microspheres composed of Fe ₂ O ₃ , microporous silica and polypyrrole. 2018 , 53, 9635-9649		22
425	Microwave absorption performance of Ni(OH) ₂ decorating biomass carbon composites from Jackfruit peel. <i>Applied Surface Science</i> , 2018 , 447, 261-268	6.7	55
424	One-step fabrication of N-doped CNTs encapsulating M nanoparticles (M = Fe, Co, Ni) for efficient microwave absorption. <i>Applied Surface Science</i> , 2018 , 447, 244-253	6.7	79
423	Graphene nanohybrids: excellent electromagnetic properties for the absorbing and shielding of electromagnetic waves. 2018 , 6, 4586-4602		351
422	Electromagnetic and microwave absorption characteristics of PMMA composites filled with a nanoporous resorcinol formaldehyde based carbon aerogel.. 2018 , 8, 10855-10864		6
421	Porous Co-C Core-Shell Nanocomposites Derived from Co-MOF-74 with Enhanced Electromagnetic Wave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11333-11342	9.5	240
420	Flexible design of gradient multilayer nanofilms coated on carbon nanofibers by atomic layer deposition for enhanced microwave absorption performance. <i>Nano Research</i> , 2018 , 11, 530-541	10	59
419	Magnetism and Microwave Absorption Properties of Fe ₃ O ₄ Microflake/Paraffin Composites Without and With Magnetic Orientation. 2018 , 47, 721-729		9
418	Electrospinning of graphite/SiC hybrid nanowires with tunable dielectric and microwave absorption characteristics. 2018 , 104, 68-80		77
417	Chemical reduction dependent dielectric properties and dielectric loss mechanism of reduced graphene oxide. 2018 , 127, 209-217		163
416	Fe@C nanocapsules with substitutional sulfur heteroatoms in graphitic shells for improving microwave absorption at gigahertz frequencies. 2018 , 126, 372-381		89
415	The construction of carbon-coated FeO yolk-shell nanocomposites based on volume shrinkage from the release of oxygen anions for wide-band electromagnetic wave absorption. 2018 , 511, 307-317		82
414	Confinedly implanted NiFe ₂ O ₄ -rGO: Cluster tailoring and highly tunable electromagnetic properties for selective-frequency microwave absorption. <i>Nano Research</i> , 2018 , 11, 1426-1436	10	307

413	Confinedly tailoring Fe ₃ O ₄ clusters-NG to tune electromagnetic parameters and microwave absorption with broadened bandwidth. <i>Chemical Engineering Journal</i> , 2018 , 332, 321-330	14.7	312
412	MWCNTs as Conductive Network for Monodispersed Fe ₃ O ₄ Nanoparticles to Enhance the Wave Absorption Performances. 2018 , 20, 1700543		39
411	Facile fabrication of boron and nitrogen co-doped carbon@Fe ₂ O ₃ /Fe ₃ C/Fe nanoparticle decorated carbon nanotubes three-dimensional structure with excellent microwave absorption properties. 2018 , 132, 141-150		67
410	Peroxidase-like activity of Au@TiO ₂ yolk-shell nanostructure and its application for colorimetric detection of H ₂ O ₂ and glucose. 2018 , 257, 166-177		51
409	Rationally regulating complex dielectric parameters of mesoporous carbon hollow spheres to carry out efficient microwave absorption. 2018 , 127, 643-652		222
408	Multi-interfacial Co@CoN _x @C(N) nanocapsules with nitrogen substitutions in graphitic shells for improving microwave absorption properties. <i>Journal of Alloys and Compounds</i> , 2018 , 736, 51-56	5.7	12
407	Microstructures, dielectric response and microwave absorption properties of polycarbosilane derived SiC powders. <i>Ceramics International</i> , 2018 , 44, 3606-3613	5.1	35
406	Self-Assembled 3D Helical Hollow Superstructures with Enhanced Microwave Absorption Properties. 2018 , 39, 1700591		27
405	Effects of indigo carmine concentration on the morphology and microwave absorbing behavior of PPy prepared by template synthesis. 2018 , 53, 3016-3026		11
404	Graphene-based microwave absorbing composites: A review and prospective. 2018 , 137, 260-277		383
403	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	10	19
402	A novel sponge-like 2D Ni/derivative heterostructure to strengthen microwave absorption performance. 2018 , 20, 28623-28633		76
401	Preparation and Microwave Absorption Properties of the Fe/TiO ₂ /Al ₂ O ₃ Composites. 2018 , 13, 1850125		3
400	. 2018 ,		18
399	Magnetic-Assisted Alignment of Reinforcing Functionalized-Fibers in a Composite for Lightweight Structures. 2018 ,		
398	Recent Progress in Electromagnetic Absorbing Materials. 2018 , 147-166		2
397	Light and Flexible Composite Nanofibrous Membranes for High-Efficiency Electromagnetic Absorption in a Broad Frequency. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44561-44569	9.5	34
396	The synergetic electromagnetic properties and enhanced microwave absorption of BiFeO ₃ /BaFe ₇ (MnTi) _{2.5} O ₁₉ composite. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 19739-19747	2.1	1

395	Inter-diffusion of Cu ²⁺ ions into CuS nanocrystals confines the microwave absorption properties. 2018 , 20, 6565-6572		10
394	Green Approach to Conductive PEDOT:PSS Decorating Magnetic-Graphene to Recover Conductivity for Highly Efficient Absorption. 2018 , 6, 14017-14025		79
393	Enhanced electromagnetic wave absorption induced by void spaces in hollow nanoparticles. <i>Nanoscale</i> , 2018 , 10, 18742-18748	7.7	62
392	Intercalating Hybrids of Sandwich-like Fe ₃ O ₄ /Graphite: Synthesis and Their Synergistic Enhancement of Microwave Absorption. 2018 , 6, 16744-16753		36
391	Cement paint composite as pollution tracker for electromagnetic radiations. 2018 , 5, 125602		2
390	Atomic layer deposition for biosensing applications. 2018 , 122, 147-159		66
389	Magnetodielectric Microwave Radiation Absorbent Materials and Their Polymer Composites. 2018 , 47, 6335-6365		31
388	Incorporating a microcellular structure into PVDF/graphene/platelet composites to tune their electrical conductivity and electromagnetic interference shielding properties. 2018 , 6, 10292-10300		113
387	An unusual route to grow carbon shell on Fe ₃ O ₄ microspheres with enhanced microwave absorption. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 463-472	5.7	25
386	Injectable and Self-Healing Chitosan Hydrogel Based on Imine Bonds: Design and Therapeutic Applications. 2018 , 19,		63
385	Rational design of CNTs with encapsulated Co nanospheres as superior acid- and base-resistant microwave absorbers. <i>Dalton Transactions</i> , 2018 , 47, 11554-11562	4.3	13
384	Fabrication and electromagnetic properties of carbon-based iron nitride composite. 2018 , 466, 22-27		17
383	Synthesis of Porous CoFe ₂ O ₄ and Its Application as a Peroxidase Mimetic for Colorimetric Detection of H ₂ O ₂ and Organic Pollutant Degradation. <i>Nanomaterials</i> , 2018 , 8,	5.4	25
382	Janus-like Fe ₃ O ₄ /PDA vesicles with broadening microwave absorption bandwidth. 2018 , 6, 7790-7796		29
381	Direct conversion of lignocellulosic biomass to biomimetic tendril-like functional carbon helices: a protein friendly host for cytochrome C. 2018 , 20, 3711-3716		15
380	Synthesis, characterization of chiral poly(ferrocenyl-schiff base) iron(II) complexes/RGO composites with enhanced microwave absorption properties. 2018 , 150, 301-310		9
379	The Fabrication and High-Efficiency Electromagnetic Wave Absorption Performance of CoFe/C Core-Shell Structured Nanocomposites. 2018 , 13, 68		15
378	High porous carbon black based flexible nanocomposite as efficient absorber for X-band applications. 2018 , 5, 105017		7

377	Tuning the Electromagnetic Synergistic Effects for Enhanced Microwave Absorption via Magnetic Nickel Core Encapsulated in Hydrogenated Anatase TiO ₂ Shell. 2018 , 6, 12046-12054		33
376	Improved microwave absorption properties by atomic-scale substitutions. 2018 , 139, 181-188		39
375	Carbon-coated Ni(OH) ₂ -NiAl LDH hierarchical nanostructures on Ni foam as a high areal capacitance electrode for supercapacitor application. 2018 , 228, 179-182		10
374	Thermally Driven Transport and Relaxation Switching Self-Powered Electromagnetic Energy Conversion. 2018 , 14, e1800987		511
373	Enhanced Polarization from Hollow Cube-like ZnSnO Wrapped by Multiwalled Carbon Nanotubes: As a Lightweight and High-Performance Microwave Absorber. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22602-22610	9.5	118
372	Transparent Perfect Microwave Absorber Employing Asymmetric Resonance Cavity. <i>Advanced Science</i> , 2019 , 6, 1901320	13.6	22
371	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	9.5	58
370	Excellent microwave absorption properties based on a composite of one dimensional MoC@C nanorods and a PVDF matrix.. 2019 , 9, 21243-21248		11
369	Boosted Interfacial Polarization from Multishell TiO ₂ @Fe ₃ O ₄ @PPy Heterojunction for Enhanced Microwave Absorption. 2019 , 15, e1902885		167
368	Magnetized polypyrrole and its enhanced electromagnetic attenuation performance. 2019 , 115, 013101		4
367	Facile synthesis and enhanced microwave absorption properties of Fe-Fe ₃ C@C composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 14573-14579	2.1	5
366	Interfacial design of sandwich-like CoFe@Ti ₃ C ₂ T _x composites as high efficient microwave absorption materials. <i>Applied Surface Science</i> , 2019 , 494, 540-550	6.7	50
365	Nitrogen-doped and Fe-filled CNTs/NiCo ₂ O ₄ porous sponge with tunable microwave absorption performance. 2019 , 153, 737-744		91
364	Enhanced microwave absorption properties of La doping BaSnO ₃ ceramic powder. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 15420-15428	2.1	4
363	Preparation and Microwave Absorption Properties of C@FeO Magnetic Composite Microspheres. 2019 , 12,		2
362	Light-weight and low-cost electromagnetic wave absorbers with high performances based on biomass-derived reduced graphene oxides. 2019 , 30, 445708		39
361	Fabrication of carbon-doped ZnCo ₂ O ₄ yolk-shell microspheres compounded with magnetic graphene for enhanced electromagnetic wave absorption performance. <i>Ceramics International</i> , 2019 , 45, 19720-19729	5.1	24
360	Layered composites composed of multi-walled carbon nanotubes/manganese dioxide/carbon fiber cloth for microwave absorption in the X-band.. 2019 , 9, 19217-19225		11

359	Effective Stimulant Dosing in Attention-Deficit/Hyperactivity Disorder. 2019 , 173, 1211		
358	The rambutan-like C@NiCo ₂ O ₄ composites for enhanced microwave absorption performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 3124-3136	2.1	13
357	Fe ₃ O ₄ Nanoflower-Carbon Nanotube Composites for Microwave Shielding. 2019 , 2, 5475-5482		17
356	Ultrathin Topological Insulator Absorber: Unique Dielectric Behavior of BiTe Nanosheets Based on Conducting Surface States. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33285-33291	9.5	59
355	Uniformly coating MnOx nanoflakes onto carbon nanofibers as lightweight and wideband microwave absorbers with frequency-selective absorption. 2019 , 183, 108167		26
354	Enhanced electromagnetic wave absorbing nickel (Oxide)-Carbon nanocomposites. <i>Ceramics International</i> , 2019 , 45, 24474-24486	5.1	46
353	Reticulated SiC coating reinforced carbon foam with tunable electromagnetic microwave absorption performance. 2019 , 178, 107479		21
352	Ultra-flexible composite metamaterials with enhanced and tunable microwave absorption performance. 2019 , 229, 111469		7
351	Hybrid polymer composites for EMI shielding application- a review. 2019 , 6, 082008		40
350	Urchin-like polyaniline/magnetic carbon sphere hybrid with excellent electromagnetic wave absorption performance. 2019 , 248, 59-67		32
349	Preparation of microwave absorbing Co-C nanofibers with robust superhydrophobic properties by electrospinning. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 3365-3377	2.1	11
348	Core-shell FeCo@carbon nanoparticles encapsulated in polydopamine-derived carbon nanocages for efficient microwave absorption. 2019 , 145, 701-711		159
347	Preparation of pH-sensitive FeO@C/carboxymethyl cellulose/chitosan composite beads for diclofenac sodium delivery. 2019 , 127, 594-605		41
346	In situ regulating aspect ratio of bamboo-like CNTs via CoxNi _{1-x} -catalyzed growth to pursue superior microwave attenuation in X-band. 2019 , 6, 309-316		25
345	Symmetrical polyhedron-bowl Co/CoO with hexagonal plate to forward electromagnetic wave absorption ability. 2019 , 21, 816-826		64
344	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	2.1	57
343	Magnetic aligned Fe ₃ O ₄ -reduced graphene oxide/waterborne polyurethane composites with controllable structure for high microwave absorption capacity. 2019 , 152, 661-670		46
342	Polymer Nanocomposites with Hybrid Fillers as Materials with Controllable Electrodynamical Characteristics for Microwave Devices. 2019 , 91-112		1

341	Heterostructured TiO ₂ /C/Co from ZIF-67 Frameworks for Microwave-Absorbing Nanomaterials. 2019 , 2, 4451-4461			35
340	Core@shell structured flower-like Co _{0.6} Fe _{2.4} O ₄ @MoS ₂ nanocomposites: a strong absorption and broadband electromagnetic wave absorber. 2019 , 7, 8975-8981			66
339	Biomaterials and Nanoparticles for Hyperthermia Therapy. 2019 , 375-413			1
338	Achieving Excellent Electromagnetic Wave Absorption Capabilities by Construction of MnO Nanorods on Porous Carbon Composites Derived from Natural Wood via a Simple Route. 2019 , 7, 11795-11805 ⁵¹			
337	Tuning the inner hollow structure of lightweight amorphous carbon for enhanced microwave absorption. <i>Chemical Engineering Journal</i> , 2019 , 375, 121914	14.7		43
336	Lightweight three-dimensional Fe ₃ O ₄ /carbon micro-flowers with tunable microwave absorption properties. <i>Journal of Alloys and Compounds</i> , 2019 , 798, 414-423	5.7		16
335	Ultralight Cellular Foam from Cellulose Nanofiber/Carbon Nanotube Self-Assemblies for Ultrabroad-Band Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22628-22636	9.5		62
334	Fabrication of SiCf/SiC-mullite composite with improved pretreatment condition via precursor infiltration-sintering combined with infiltration-pyrolysis process. <i>Ceramics International</i> , 2019 , 45, 16062-16069	5.1		6
333	Two-step synthesis of self-assembled 3D graphene/shuttle-shaped zinc oxide (ZnO) nanocomposites for high-performance microwave absorption. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 1310-1319	5.7		34
332	Synthesis of mesoporous hexagonal cobalt nanosheets with low permittivity for enhancing microwave absorption performances. 2019 , 486, 165272			13
331	Starfish-like C/CoNiO ₂ heterostructure derived from ZIF-67 with tunable microwave absorption properties. <i>Chemical Engineering Journal</i> , 2019 , 373, 122-130	14.7		85
330	Lightweight and High-Performance Microwave Absorber Based on 2D WS-RGO Heterostructures. 2019 , 11, 38			116
329	Microwave absorption enhancement by adjusting reactant ratios and filler contents based on 1D K-MnO@PDA and poly(vinylidene fluoride) matrix.. 2019 , 9, 13088-13095			8
328	Enhanced microwave absorption properties of graphene/FeCoNi composite materials by tuning electromagnetic parameters. 2019 , 1, 015003			9
327	Enhanced Microwave Absorption Performance from Magnetic Coupling of Magnetic Nanoparticles Suspended within Hierarchically Tubular Composite. 2019 , 29, 1901448			321
326	Broadband microwave absorbing materials based on MWCNTs electromagnetic wave filtering effect. 2019 , 171, 214-221			26
325	A novel strategy to enhance the multiple interface effect using amorphous carbon packaged hydrogenated TiO ₂ for stable and effective microwave absorption. 2019 , 7, 6152-6160			19
324	Hierarchical core/shell bamboo-like polypyrrole nanofibers/Fe ₃ O ₄ hybrids with superior microwave absorption performance. 2019 , 26, 1087-1100			4

323	Template synthesis of CoFe ₂ O ₄ extended surface microspheres for efficient water decontamination and absorption of electromagnetic waves: Twin behavior. 2019 , 6, 075506		4
322	Eco-mimetic nanoarchitecture for green EMI shielding. <i>Chemical Engineering Journal</i> , 2019 , 369, 1068-1077.		118
321	Highly Transparent and Broadband Electromagnetic Interference Shielding Based on Ultrathin Doped Ag and Conducting Oxides Hybrid Film Structures. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11782-11791	9.5	45
320	Nanolayered [email[protected]] Hybrids Derived from Metal-Organic Frameworks for Microwave Absorption. 2019 , 2, 2325-2335		59
319	Atomic layer deposition-assisted growth of CuAl LDH on carbon fiber as a peroxidase mimic for colorimetric determination of H ₂ O ₂ and glucose. 2019 , 43, 5826-5832		18
318	Mesoporous carbon hollow microspheres with tunable pore size and shell thickness as efficient electromagnetic wave absorbers. 2019 , 167, 690-699		125
317	Biomass-Derived Porous Carbon-Based Nanostructures for Microwave Absorption. 2019 , 11, 24		257
316	Atomic Layer Deposition of Nickel Nitride Thin Films using NiCl ₂ (TMPDA) and Tert-Butylhydrazine as Precursors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1900058	1.6	4
315	Oriented Polarization Tuning Broadband Absorption from Flexible Hierarchical ZnO Arrays Vertically Supported on Carbon Cloth. 2019 , 15, e1900900		133
314	High-Temperature Oxidation-Resistant ZrNB/SiC Nanohybrid for Enhanced Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15869-15880	9.5	110
313	ZnFe ₂ O ₄ @Polypyrrole nanocomposites as an efficient broadband electromagnetic wave absorber at 240 GHz. <i>Ceramics International</i> , 2019 , 45, 13883-13893	5.1	27
312	Facile Synthesis of Three-Dimensional Porous Co/MnO Composites Derived from Bimetal Oxides for Highly Efficient Electromagnetic Wave Absorption. 2019 , 7, 8687-8695		51
311	A versatile strategy towards magnetic/dielectric porous heterostructure with confinement effect for lightweight and broadband electromagnetic wave absorption. <i>Chemical Engineering Journal</i> , 2019 , 370, 988-996	14.7	48
310	Electromagnetic Response and Energy Conversion for Functions and Devices in Low-Dimensional Materials. 2019 , 29, 1807398		372
309	Nano sulfur particles decorated bi-lamella composites for superior electromagnetic wave absorption. 2019 , 543, 138-146		13
308	Energy-Converting Nanomedicine. 2019 , 15, e1805339		57
307	Electronic Structure and Electromagnetic Properties for 2D Electromagnetic Functional Materials in Gigahertz Frequency. 2019 , 531, 1800390		136
306	Improved microwave absorption properties of polycarbosilane-derived SiC core-shell particles by oxidation. <i>Journal of Alloys and Compounds</i> , 2019 , 786, 409-417	5.7	9

305	In-Situ Growth and Graphitization Synthesis of Porous Fe ₃ O ₄ /Carbon Fiber Composites Derived from Biomass as Lightweight Microwave Absorber. 2019 , 7, 5318-5328		77
304	Novel hierarchical RGO/MoS ₂ /K-MnO ₂ composite architectures with enhanced broadband microwave absorption performance. 2019 , 7, 13878-13886		8
303	NiFeO nanoparticles supported on cotton-based carbon fibers and their application as a novel broadband microwave absorbent.. 2019 , 9, 29959-29966		7
302	Cobalt nanoparticles embedded nitrogen-doped porous graphitized carbon composites with enhanced microwave absorption performance. 2019 , 533, 297-303		32
301	Co nanoparticles supported on cotton-based carbon fibers: A novel broadband microwave absorbent. <i>Journal of Alloys and Compounds</i> , 2019 , 772, 760-769	5-7	43
300	Synthesis and excellent electromagnetic absorption properties of reduced graphene oxide/PANI/BaNd _{0.2} Sm _{0.2} Fe _{11.6} O ₁₉ nanocomposites. <i>Journal of Alloys and Compounds</i> , 2019 , 779, 270-279	5-7	32
299	Electromagnetic wave absorption and mechanical properties of silicon carbide fibers reinforced silicon nitride matrix composites. 2019 , 39, 743-754		27
298	Investigations on structure-dependent microwave absorption performance of nano-Fe ₃ O ₄ coated carbon-based absorbers. 2019 , 144, 216-227		49
297	Tunable microwave absorptivity in reduced graphene oxide functionalized with Fe ₃ O ₄ nanorods. <i>Applied Surface Science</i> , 2019 , 473, 706-714	6-7	38
296	Ultrathin manganese oxide nanosheets uniformly coating on carbon nanocoils as high-performance asymmetric supercapacitor electrodes. 2019 , 537, 142-150		35
295	Microwave absorption enhancement of porous C@CoFe ₂ O ₄ nanocomposites derived from eggshell membrane. 2019 , 143, 507-516		206
294	Millimeter-scale metacomposite absorbers by structuring Ni@C nanocapsules for tunable microwave absorption. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 1205-1211	5-7	4
293	Tunable microwave absorption properties of nickel-carbon nanofibers prepared by electrospinning. <i>Ceramics International</i> , 2019 , 45, 3313-3324	5-1	48
292	Lightweight, high electrical and thermal conducting carbon-rGO composites foam for superior electromagnetic interference shielding. 2019 , 160, 131-139		52
291	A green fabrication and variable temperature electromagnetic properties for thermal stable microwave absorption towards flower-like Co ₃ O ₄ @rGO/SiO ₂ composites. 2019 , 166, 187-195		117
290	Consecutively Strong Absorption from Gigahertz to Terahertz Bands of a Monolithic Three-Dimensional FeO/Graphene Material. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1274-1282 ^{9.5}		64
289	Millimeter wave absorbing property of flexible graphene/acrylonitrile-butadiene rubber composite in 5G frequency band. 2019 , 58, 903-914		4
288	Ultrathin multifunctional carbon/glass fiber reinforced lossy lattice metastructure for integrated design of broadband microwave absorption and effective load bearing. 2019 , 144, 449-456		25

287	Co/CoO@C nanocomposites with a hierarchical bowknot-like nanostructure for high performance broadband electromagnetic wave absorption. <i>Applied Surface Science</i> , 2019 , 469, 607-616	6.7	25
286	Multifunctional broadband microwave absorption of flexible graphene composites. 2019 , 141, 608-617		121
285	Recent progress in microwave absorption of nanomaterials: composition modulation, structural design, and their practical applications. 2019 , 2, 2-10		18
284	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
283	Magnetic Ni/graphene connected with conductive carbon nano-onions or nanotubes by atomic layer deposition for lightweight and low-frequency microwave absorption. <i>Chemical Engineering Journal</i> , 2020 , 382, 122980	14.7	101
282	Stretchable microwave absorbing and electromagnetic interference shielding foam with hierarchical buckling induced by solvent swelling. 2020 , 157, 466-477		36
281	Carbon nanocoils-nickel foam decorated with silver nanoparticles/sheets using a novel stirring assisted electrodeposition technique for non-enzymatic glucose sensor. 2020 , 157, 761-766		23
280	Excellent microwave absorbing performance of the sandwich structure absorber Fe@B2O3/MoS2/Fe@B2O3 in the Ku-band and X-band. <i>Chemical Engineering Journal</i> , 2020 , 382, 122804	14.7	16
279	MOF-derived yolk-shell Ni@C@ZnO Schottky contact structure for enhanced microwave absorption. <i>Chemical Engineering Journal</i> , 2020 , 383, 123099	14.7	207
278	Electromagnetic wave absorption enhancement of double-layer structural absorbers based on carbon nanofibers and hollow Co2Y hexaferrite microfibrils. <i>Journal of Alloys and Compounds</i> , 2020 , 814, 152302	5.7	12
277	Polymeric materials filled with hematite nanoparticle: current state and prospective application. 2020 , 59, 323-338		2
276	Micro-nanospheres assembled with helically coiled nitrogen-doped carbon nanotubes: Fabrication and microwave absorption properties. 2020 , 186, 108290		18
275	Direct one-step synthesis of CoFe@Co@C hybrids derived from a metal organic framework for a lightweight and high-performance microwave absorber. 2020 , 31, 095703		4
274	Three-dimensional macroassembly of hybrid C@CoFe nanoparticles/reduced graphene oxide nanosheets towards multifunctional foam. 2020 , 157, 427-436		40
273	Achieving wideband microwave absorption properties in PVDF nanocomposite foams with an ultra-low MWCNT content by introducing a microcellular structure. 2020 , 8, 58-70		73
272	Preparation and dielectric properties at high frequency of AlN-based composited ceramic. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 2826-2832	2.1	5
271	Fabrication of microwave absorbing Ni/NiO/C nanofibers with robust superhydrophobic properties by electrospinning. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 226-238	2.1	12
270	Enhanced electromagnetic wave absorption of olive-like Fe3O4/Fe@C core-shell nanocomposite in Ku band. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153275	5.7	14

269	Ultrafast and durable lithium ion storage enabled by intertwined carbon nanofiber/Ti ₂ Nb ₁₀ O ₂₉ core-shell arrays. 2020 , 332, 135433		20
268	Construction of multiple heterogeneous interface and its effect on microwave absorption of SiBCN ceramics. <i>Ceramics International</i> , 2020 , 46, 7823-7832	5.1	19
267	Ionic Conductive Gels for Optically Manipulatable Microwave Stealth Structures. <i>Advanced Science</i> , 2020 , 7, 1902162	13.6	38
266	Construction of a three-dimensional rGO/CoFe ₂ O ₄ nanorods composite with enhanced microwave absorption performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 18590-18604	2.1	3
265	Tailoring microwave electromagnetic responses in Ti ₃ C ₂ T _x MXene with CoNi-alloy nanoparticles decoration via mild hydrothermal method. 2020 , 19, 103516		6
264	Synthesis of Diamond-Like Carbon Nanofiber Films. <i>ACS Nano</i> , 2020 , 14, 13663-13672	16.7	7
263	Constructing heterostructural Fe@Fe ₃ C@carbon nanotubes/reduced graphene oxide nanocomposites as lightweight and high-efficiency microwave absorbers. 2020 , 8, 14515-14522		15
262	Recent Advances in the Electromagnetic Interference Shielding of 2D Materials beyond Graphene. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3048-3071	4	22
261	Novel ceramic-based microwave absorbents derived from gangue. 2020 , 8, 14238-14245		3
260	Optimization, selective and efficient production of CNTs/Co _x Fe _{3-x} O ₄ core/shell nanocomposites as outstanding microwave absorbers. 2020 , 8, 11936-11949		68
259	Study on the factors of large-scale space wave absorption of MWCNTs/Fe ₃ O ₄ nanocomposite particles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 22727-22739	2.1	3
258	Synthesis of reduced graphene oxides with magnetic Co nanocrystals coating for electromagnetic absorption properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 22616-22628	2.1	1
257	Facile synthesis of LaNiO ₃ microspheres with efficient broad band microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2020 , 848, 156579	5.7	4
256	Plasma-Enhanced Atomic Layer Deposition of Nickel Nanotubes with Low Resistivity and Coherent Magnetization Dynamics for 3D Spintronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40443-40452	9.5	4
255	Recognition and sensitive detection of CTCs using a controllable label-free electrochemical cytosensor. 2020 , 187, 487		3
254	Carbon nanotubes/Ni and chain-like carbon nanospheres/Ni nanocomposites: selective production and their microwave absorption performances. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 1	2.1	1
253	Co/Co ₃ O ₄ -Based Nanoparticles and Their Polymer Composites for Tuned Electromagnetic Interference Shielding Application. 2020 , 20, 2847-2857		2
252	Rutile TiO ₂ Nanoparticles Encapsulated in a Zeolitic Imidazolate Framework-Derived Hierarchical Carbon Framework with Engineered Dielectricity as an Excellent Microwave Absorber. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48140-48149	9.5	11

251	Investigation of microwave absorption properties of multi-layer nanostructure BaFe ₂ O ₁₉ /epoxy composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 16918-16927	2.1	3
250	Galvanic Replacement Reaction Involving Core-Shell Magnetic Chains and Orientation-Tunable Microwave Absorption Properties. 2020 , 16, e2003502		129
249	Metal and Metal Matrix 2D Nanomaterial Composites: Attractive Alternatives for EMI Shielding Applications. 2020 , 347-373		1
248	Efficient microwave traps with markedly enhanced interfacial polarization and impedance matching enabled by dual-shelled, dual-cavity magnetic@dielectric hollow nanospheres. 2020 , 8, 16489-16497		9
247	Energetic metal-organic frameworks deflagration enabled ultrafast low-temperature synthesis of ultra-light magnetic nanoparticles decorated high-lossy materials. 2020 , 165, 286-295		6
246	Constructing and optimizing core@shell structure CNTs@MoS ₂ nanocomposites as outstanding microwave absorbers. <i>Applied Surface Science</i> , 2020 , 516, 146159	6.7	86
245	Magnetic Carbon Nanotubes/Graphene Oxide Nanocomposites: One-Step Controllable Production, and Their Excellent Microwave Absorption Capabilities. 2020 , 7,		3
244	Microwave-assisted catalytic methane reforming: A review. 2020 , 599, 117620		22
243	Regulation of dielectric loss by different exposed crystal facets in graphite-coated titanium carbide nanocomposites. <i>Ceramics International</i> , 2020 , 46, 18339-18346	5.1	9
242	Enhanced microwave absorption from the magnetic-dielectric interface: A hybrid rGO@Ni-doped-MoS ₂ . 2020 , 130, 110943		12
241	Inverse-opal-based carbon composite monoliths for microwave absorption applications. 2020 , 166, 328-338		18
240	Drawing advanced electromagnetic functional composites with ultra-low filler loading. <i>Chemical Engineering Journal</i> , 2020 , 399, 125720	14.7	11
239	A novel Fe ₃ O ₄ /carbon nanotube composite film with a cratered surface structure for effective microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 11508-11519	2.1	9
238	Confining Tiny MoO Clusters into Reduced Graphene Oxide for Highly Efficient Low Frequency Microwave Absorption. 2020 , 16, e2001686		43
237	Controllable Synthesis of Co@CoO/Helical Nitrogen-Doped Carbon Nanotubes toward Oxygen Reduction Reaction as Binder-free Cathodes for Al-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16512-16520	9.5	13
236	Electromagnetic wave absorption properties of SiC@SiO ₂ nanoparticles fabricated by a catalyst-free precursor pyrolysis method. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154643	5.7	10
235	Dielectric Properties and Electromagnetic Wave Absorbing Performance of Single-Source-Precursor Synthesized MoSiC/SiC/C Nanocomposites with an In Situ Formed Nowotny Phase. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16912-16921	9.5	6
234	Construction and Microwave Absorption Properties of Core@Double-Shell Structured Fe ₃ O ₄ @Polyaniline@MnO ₂ Nanospheres. 2020 , 15, 2050032		10

233	Tuning the microwave absorption capacity of TiP2O7 by composited with biomass carbon. <i>Applied Surface Science</i> , 2020 , 515, 145974	6.7	28
232	Delamination strategy to achieve Ti3C2Tx/CNZF composites with tunable electromagnetic absorption. 2020 , 112, 105008		16
231	Filler size effect in graphite/paraffine wax composite on electromagnetic interference shielding performance. 2020 , 37, 1623-1630		4
230	Electromagnetic Wave Absorption Properties of Core-Shell Ni-Based Composites. 2020 ,		1
229	Nanocomposite engineered carbon fabric-mat as a passive metamaterial for stealth application. <i>Journal of Alloys and Compounds</i> , 2020 , 848, 155771	5.7	15
228	Tunable Dielectric Properties of Carbon Nanotube@Polypyrrole Core-Shell Hybrids by the Shell Thickness for Electromagnetic Wave Absorption*. 2020 , 37, 045201		5
227	Electromagnetic Wave-Absorbing Property and Mechanism of Cementitious Composites with Different Types of Nano Titanium Dioxide. 2020 , 32, 04020073		4
226	Three-dimensional foam-like Fe3O4@C core-shell nanocomposites: Controllable synthesis and wideband electromagnetic wave absorption properties. 2020 , 502, 166518		29
225	Molecular Patching Engineering to Drive Energy Conversion as Efficient and Environment-Friendly Cell toward Wireless Power Transmission. 2020 , 30, 1908299		125
224	Microwave absorption properties of nanostructure composite particles based on SrFe12O19. 2020 , 56, 251-256		7
223	Growth of Carbon Nanocoils by Porous β -FeO/SnO Catalyst and Its Buckypaper for High Efficient Adsorption. 2020 , 12, 23		30
222	Highly dispersive GO-based supramolecular absorber: Chemical-reduction optimization for impedance matching. <i>Journal of Alloys and Compounds</i> , 2020 , 834, 155122	5.7	9
221	Effect of morphology and role of conductivity of embedded metallic nanoparticles on electromagnetic interference shielding of PVDF-carbonaceous-nanofiller composites. 2020 , 164, 357-368		45
220	High-performance and flexible all-solid-state hybrid supercapacitor constructed by NiCoP/CNT and N-doped carbon coated CNT nanoarrays. 2020 , 572, 151-159		34
219	Bimetallic Metal-Organic Framework-Derived Pomegranate-like Nanoclusters Coupled with CoNi-Doped Graphene for Strong Wideband Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17870-17880	9.5	49
218	Synthesis of porous carbon embedded with NiCo/CoNiO hybrids composites for excellent electromagnetic wave absorption performance. 2020 , 575, 130-139		83
217	Investigating the effect of honeycomb structure composite on microwave absorption properties. 2020 , 19, 182-188		17
216	Dependence of electromagnetic interference shielding ability of conductive polymer composite foams with hydrophobic properties on cellular structure. 2020 , 8, 7401-7410		36

215	Ferromagnetic carbonized polyaniline/nanodiamond hybrids for ultrabroad-band electromagnetic absorption. 2020 , 164, 224-234		25
214	Enhanced interfacial adhesion and mechanical performance of lightweight polyurethane foam reinforced with a low content of aligned magnetised short carbon fibres. 2021 , 28, 309-328		1
213	Pomegranate like polypyrrole/nanodiamond hierarchical structures for metal-free ultrabroad-band electromagnetic absorptions. 2021 , 172, 422-430		3
212	Spherical shape Co@Co ₃ O ₄ core-shell composites grown on surface of graphite nanosheets with ultra-thin and excellent electromagnetic absorption performance. <i>Applied Surface Science</i> , 2021 , 539, 148253	6.7	13
211	Core-shell, wire-in-tube and nanotube structures: Carbon-based materials by molecular layer deposition for efficient microwave absorption. 2021 , 173, 145-153		15
210	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	9.1	75
209	In-situ synthesis of SiC/Fe nanowires coated with thin amorphous carbon layers for excellent electromagnetic wave absorption in GHz range. 2021 , 171, 785-797		14
208	In situ construction of hierarchical core-shell Fe ₃ O ₄ @C nanoparticles/helical carbon nanocoil hybrid composites for highly efficient electromagnetic wave absorption. 2021 , 171, 395-408		45
207	Achieving effective broadband microwave absorption with Fe ₃ O ₄ @C supraparticles. 2021 , 7, 80-88		16
206	Conductive polyaniline coated on aluminum substrate as bi-functional materials with high-performance microwave absorption and low infrared emissivity. 2021 , 271, 116640		7
205	Biomass-derived 3D magnetic porous carbon fibers with a helical/chiral structure toward superior microwave absorption. 2021 , 173, 918-931		50
204	Novel hierarchical CuNiAl LDH nanotubes with excellent peroxidase-like activity for wide-range detection of glucose. <i>Dalton Transactions</i> , 2021 , 50, 95-102	4.3	2
203	Cellulose nanofibrils-based hybrid foam generated from Pickering emulsion toward high-performance microwave absorption. 2021 , 255, 117333		10
202	A review of helical carbon materials structure, synthesis and applications. 2021 , 40, 3-19		21
201	Sb ₂ Te ₃ nanosheets: Topological insulators with extraordinary electromagnetic response behaviors. <i>Chemical Engineering Journal</i> , 2021 , 414, 128036	14.7	2
200	In situ synthesis hydrophobic Co/CoO/C nanofibers with enhanced microwave absorption. <i>Ceramics International</i> , 2021 , 47, 9178-9187	5.1	10
199	Boron nitride nanocomposites for microwave absorption: A review. 2021 , 13, 100108		15
198	Construction of Ni-loaded ceramic composites for efficient microwave absorption. <i>Applied Surface Science</i> , 2021 , 538, 148018	6.7	14

197	Titanium niobate (TiNbO) anchored on nitrogen-doped carbon foams as flexible and self-supported anode for high-performance lithium ion batteries. 2021 , 587, 622-632		11
196	Electromagnetic wave absorbing properties of Cr ₂ AlB ₂ powders and the effect of high-temperature oxidation. 2021 , 104, 2213-2224		5
195	Facile fabrication of rGO/Zr ⁴⁺ -Ni ²⁺ gradient-doped BaM composites for broad microwave absorption bandwidth. <i>Ceramics International</i> , 2021 , 47, 4333-4337	5.1	3
194	Biomass derived porous carbon (BPC) and their composites as lightweight and efficient microwave absorption materials. 2021 , 207, 108562		53
193	Novel yolk-shell Fe ₃ O ₄ @void@SiO ₂ @PPy nanochains toward microwave absorption application. 2021 , 56, 1312-1327		21
192	Polymer and Ceramic-Based Hollow Nanofibers via Electrospinning. 2021 , 223-250		
191	Pyrolysis-controlled FeCoNi@hard carbon composites with facilitated impedance matching for strong electromagnetic wave response.		2
190	Polymer/carbon nanocoil nanocomposite: status and future directions. 2021 , 60, 816-829		2
189	Lightweight, flexible and freestanding PVA/PEDOT: PSS/Ag NWs film for high-performance electromagnetic interference shielding. 2021 , 64, 1723-1732		11
188	CNT@NiO/natural rubber with excellent impedance matching and low interfacial thermal resistance toward flexible and heat-conducting microwave absorption applications. 2021 , 9, 869-880		17
187	Growth of NiAl-Layered Double Hydroxide on Graphene toward Excellent Anticorrosive Microwave Absorption Application. <i>Advanced Science</i> , 2021 , 8, 2002658	13.6	83
186	Influence of High-Enthalpy Atmospheric Plasma Spraying Process Parameters on Microwave Dielectric Properties of Y ₂ O ₃ Coatings. 2021 , 30, 898-906		1
185	Enhanced microwave absorption performance of light weight N-doped carbon nanoparticles.. 2021 , 11, 7954-7960		1
184	Hybrid structure of MWCNT/ferrite and GO incorporated composites for microwave shielding properties and their practical applications.. 2021 , 11, 9775-9787		8
183	Mn Doping of BiFeO ₃ for Microstructure and Electromagnetic Characteristics. 2021 , 34, 1199-1207		2
182	MIL-100(Fe) decorated on graphene using as wideband microwave absorption material. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021 , 29, 767-772	1.8	1
181	Electromagnetic-wave shielding promulgation of cluster like FZ@MWCNT composite incorporated in GO matrices by polarization relaxation and potential degradation. 2021 , 172, 110884		5
180	Three-Dimensional Ordered Mesoporous Carbon Spheres Modified with Ultrafine Zinc Oxide Nanoparticles for Enhanced Microwave Absorption Properties. 2021 , 13, 76		32

179	Achieving C/CuO microfiber composites with efficient microwave absorbing performance at low thickness. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	0
178	1D Electromagnetic-Gradient Hierarchical Carbon Microtube via Coaxial Electrospinning Design for Enhanced Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15939-15949	9.5	14
177	Multifunctional Magnetic TiCT MXene/Graphene Aerogel with Superior Electromagnetic Wave Absorption Performance. <i>ACS Nano</i> , 2021 , 15, 6622-6632	16.7	144
176	Alternating Multilayered SiN/SiC Aerogels for Broadband and High-Temperature Electromagnetic Wave Absorption up to 1000 °C. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16704-16712	9.5	22
175	Efficient synthesis of N-doped porous carbon nanoribbon composites with selective microwave absorption performance in common wavebands. 2021 , 175, 164-175		30
174	M-Type Barium Hexaferrite-Based Nanocomposites for EMI Shielding Application: a Review. 2021 , 34, 1019-1045		10
173	Polypyrrole/Fe ₂ O ₃ /g-C ₃ N ₄ nanocomposites for high-performance electromagnetic wave absorption. 2021 , 274, 116716		9
172	The microwave absorption properties of residual carbon from coal gasification fine slag. 2021 , 290, 120050		15
171	MOFs-derived hollow materials for electromagnetic wave absorption: prospects and challenges. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	1
170	Unique nanoporous structure derived from Co ₃ O ₄ and Co/CoO composites towards the ultra-strong electromagnetic absorption. 2021 , 213, 108731		25
169	Unparalleled Armour for Aramid Fiber with Excellent UV Resistance in Extreme Environment. <i>Advanced Science</i> , 2021 , 8, 2004171	13.6	5
168	Functionalized Carbon Nanotubes (CNTs) for Water and Wastewater Treatment: Preparation to Application. 2021 , 13, 5717		19
167	Lignin doped epoxy acrylate sandwich electromagnetic shielding material synergized with Fe ₃ O ₄ and CNT. 1-9		1
166	C/MnO@void@C with Triple Balances for Superior Microwave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32037-32045	9.5	10
165	Defect-Enhanced Electromagnetic Wave Absorption Property of Hierarchical Graphite Capsules@Helical Carbon Nanotube Hybrid Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28710-28720	9.5	10
164	Structural Engineering of Hierarchical Aerogels Comprised of Multi-dimensional Gradient Carbon Nanoarchitectures for Highly Efficient Microwave Absorption. 2021 , 13, 144		32
163	Cup-stacked carbon nanotubes hybridized Si ₃ N ₄ /Si ₃ N ₄ composite ceramics for high-efficiency microwave absorption with excellent thermal stability. <i>Ceramics International</i> , 2021 , 47, 15210-15218	5.1	2
162	Tailoring of N-doped graphite coated cobalt nanoparticles via arc discharge enables the high microwave absorption. 2021 , 177, 171-180		11

161	Confined Magnetic-Dielectric Balance Boosted Electromagnetic Wave Absorption. 2021 , 17, e2100970		17
160	Periodically structured stretchable bundles of carbon nanofibers. 2021 , 60, 075002		
159	Synthesis of carbon-coated cobalt ferrite core-shell structure composite: A method for enhancing electromagnetic wave absorption properties by adjusting impedance matching. 2021 ,		0
158	Boron-doped helical carbon nanotubes: lightweight and efficient microwave absorbers. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 26161	2.1	0
157	The ordered mesoporous carbon coated graphene as a high-performance broadband microwave absorbent. 2021 , 179, 435-444		13
156	Enhanced electromagnetic wave absorption property of binary ZnO/NiCo ₂ O ₄ composites. 2021 , 10, 832-842		15
155	Metal-Organic Framework-Derived Carbon/Carbon Nanotubes Mediate Impedance Matching for Strong Microwave Absorption at Fairly Low Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33496-33504	9.5	5
154	Enhanced visualizing charge distribution of 2D/2D MXene/MoS ₂ heterostructure for excellent microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2021 , 869, 159365	5.7	20
153	Modulating dielectric loss of MoS ₂ @Ti ₃ C ₂ T _x nanoarchitectures for electromagnetic wave absorption with radar cross section reduction performance verified through simulations. <i>Ceramics International</i> , 2021 , 47, 20706-20716	5.1	5
152	Design and synthesis of ZnO nanoparticles decorated ultra-light nanoscale reduced graphene oxide for broadband electromagnetic wave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 20710-20724	2.1	
151	In-situ regrowth constructed magnetic coupling 1D/2D Fe assembly as broadband and high-efficient microwave absorber. <i>Chemical Engineering Journal</i> , 2021 , 415, 128951	14.7	15
150	3D Seed-Germination-Like MXene with In Situ Growing CNTs/Ni Heterojunction for Enhanced Microwave Absorption via Polarization and Magnetization. 2021 , 13, 157		25
149	Carbon-enabled microwave chemistry: From interaction mechanisms to nanomaterial manufacturing. 2021 , 85, 106027		17
148	Atomic-Scale Layer-by-Layer Deposition of FeSiAl@ZnO@AlO Hybrid with Threshold Anti-Corrosion and Ultra-High Microwave Absorption Properties in Low-Frequency Bands. 2021 , 13, 161		22
147	Magnetic porous CoNi@C derived from bamboo fiber combined with metal-organic-framework for enhanced electromagnetic wave absorption. 2021 , 595, 78-87		27
146	Application progress of conductive conjugated polymers in electromagnetic wave absorbing composites. 2021 , 26, 100767		11
145	Ultrathin PANI-Decorated, Highly Purified and Well Dispersed Array Cncs for Highly Sensitive HCHO Sensors. 2021 , 9, 276		
144	Rational construction of porous N-doped FeO films on porous graphene foams by molecular layer deposition for tunable microwave absorption. 2021 , 598, 45-55		13

143	Enhanced dielectric polarization from disorder-engineered Fe ₃ O ₄ @TiO _{2-x} heterostructure for broadband microwave absorption. <i>Chemical Engineering Journal</i> , 2021 , 419, 130020	14.7	20
142	X-band absorber carbon microbeads. 2021 , 299, 130054		
141	Fe nanoparticles decorated in residual carbon from coal gasification fine slag as an ultra-thin wideband microwave absorber. 2021 , 213, 108921		7
140	Magnetic ferrite/carbonized cotton fiber composites for improving electromagnetic absorption properties at gigahertz frequencies. <i>Journal of Materials Science and Technology</i> , 2021 , 86, 127-138	9.1	8
139	Dumbbell-Like FeO@N-Doped Carbon@2H/1T-MoS ₂ with Tailored Magnetic and Dielectric Loss for Efficient Microwave Absorbing. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47061-47071	9.5	11
138	Recent advances in electromagnetic interference shielding properties of carbon-fibre-reinforced polymer composites—topical review. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 24585	2.1	5
137	Tailoring nanoparticles composites derived from metal-organic framework as electromagnetic wave absorber. 2021 , 20, 100475		25
136	Genetic Dielectric Genes Inside 2D Carbon-Based Materials with Tunable Electromagnetic Function at Elevated Temperature. 2100104		26
135	Synthesis and microwave absorption properties of multilayer SiC/C foam with alternating distribution of C and SiC. <i>Journal of Alloys and Compounds</i> , 2021 , 879, 160440	5.7	2
134	Thermally-tailoring dielectric genes in graphene-based heterostructure to manipulate electromagnetic response. 2021 , 184, 136-145		26
133	Synthesizing CN _x heterostructures on ferromagnetic nanoparticles for improving microwave absorption property. <i>Applied Surface Science</i> , 2021 , 564, 150480	6.7	3
132	0D-1D-2D multidimensionally assembled Co ₉ S ₈ /CNTs/MoS ₂ composites for ultralight and broadband electromagnetic wave absorption. <i>Chemical Engineering Journal</i> , 2021 , 423, 130132	14.7	15
131	Graphene oxide-assisted Co-sintering synthesis of carbon nanotubes with enhanced electromagnetic wave absorption performance. 2021 , 185, 186-197		5
130	Boosted microwave absorbing performance of Ce ₂ Fe ₁₇ N ₃ @SiO ₂ composite with broad bandwidth and low thickness. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160835	5.7	3
129	Design of core-shell structure NC@MoS ₂ hierarchical nanotubes as high-performance electromagnetic wave absorber. <i>Chemical Engineering Journal</i> , 2021 , 426, 131308	14.7	12
128	Polymer-bubbling for one-step synthesis of three-dimensional cobalt/carbon foams against electromagnetic pollution. <i>Journal of Materials Science and Technology</i> , 2021 , 93, 7-16	9.1	11
127	Interface compatibility engineering of Multi-shell Fe@C@TiO ₂ @MoS ₂ heterojunction expanded microwave absorption bandwidth. <i>Chemical Engineering Journal</i> , 2022 , 429, 132191	14.7	11
126	Catalytic anisotropy induced by multi-particles for growth of carbon nanocoils. 2020 , 166, 101-112		11

125	Synthesis of Magnetic Wood with Excellent and Tunable Electromagnetic Wave-Absorbing Properties by a Facile Vacuum/Pressure Impregnation Method. 2018 , 6, 1000-1008		67
124	Preparation of cobalt sulfide nanoparticles wrapped into reduced graphene oxide with tunable microwave absorption performance. <i>Journal of Applied Physics</i> , 2020 , 127, 205102	2.5	9
123	Functionalized carbon microfibers (biomass-derived) ornamented by BiS nanoparticles: an investigation on their microwave, magnetic, and optical characteristics. 2021 , 32, 065201		9
122	Magnetic Energy Morphing, Capacitive Concept for NiZnCaFeO Nanoparticles Embedded in Graphene Oxide Matrix, and Studies of Wideband Tunable Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 46967-46979	9.5	4
121	Synthesis and characterization of nanoparticles reinforced epoxy based advanced radar absorbing composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 28007	2.1	4
120	Co, Ni-coordinated ZIF derived nitrogen doped carbon network with encapsulated alloy for microwave absorption. <i>Diamond and Related Materials</i> , 2021 , 120, 108669	3.5	2
119	Heterointerface Engineering in Electromagnetic Absorbers: New Insights and Opportunities. 2021 , e2106195		43
118	Surface modification of helical carbon nanocoil (CNC) with N-doped and Co-anchored carbon layer for efficient microwave absorption. 2021 , 608, 1894-1906		0
117	Growth of Graphene Nanocoil in a SiC Container: A Molecular Dynamics Study. 2016 , 06, 113-119		
116	Investigations on the Microwave-Absorbing Properties of NiZnCo Magneto-Dielectric Ferrites. 2019 , ,		
115	Conductive substrates-based component tailoring via thermal conversion of metal organic framework for enhanced microwave absorption performances. 2021 , 608, 1323-1333		2
114	Ultralight Pyrolytic Carbon Foam Reinforced with Amorphous Carbon Nanotubes for Broadband Electromagnetic Absorption. <i>SSRN Electronic Journal</i> ,	1	0
113	Optimal particle distribution induced interfacial polarization in bouquet-like hierarchical composites for electromagnetic wave absorption. 2022 , 186, 323-332		14
112	Interface modulation of chiral PPy/Fe3O4 planar microhelixes to achieve electric/magnetic-coupling and wide-band microwave absorption. <i>Chemical Engineering Journal</i> , 2022 , 430, 132747	14.7	12
111	Superparamagnetic SiO2@Fe3O4 core/shell fabrication via low-temperature electroless deposition. <i>Materials Chemistry and Physics</i> , 2022 , 277, 125443	4.4	1
110	Enhanced electromagnetic shielding effectiveness of MWCNT/zinc-doped nickel ferrite nanocomposites. <i>Ceramics International</i> , 2021 ,	5.1	2
109	A Novel Strategy in Electromagnetic Wave Absorbing and Shielding Materials Design: Multi-Responsive Field Effect. 2100077		36
108	NiFe2O4/CNTs fabricated by atomic layer deposition as highly stable peroxidase mimics for sensitive colorimetric detection of hydrogen peroxide and glucose. 2021 , 147, 111637		1

107	Dimensional Design and Core-Shell Engineering of Nanomaterials for Electromagnetic Wave Absorption. 2021 , e2107538		37
106	A review on one-dimensional carbon-based composites as electromagnetic wave absorbers. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	0
105	Impedance amelioration of coaxial-electrospun TiO ₂ @Fe/C@TiO ₂ vesicular carbon microtubes with dielectric-magnetic synergy toward highly efficient microwave absorption. <i>Chemical Engineering Journal</i> , 2021 , 133640	14.7	2
104	Temperature-Dependent Electromagnetic Microwave Absorbing Characteristics of Stretchable Polyurethane Composite Foams with Ultrawide Bandwidth. 2101489		2
103	Anchoring well-dispersed magnetic nanoparticles on biomass-derived 2D porous carbon nanosheets for lightweight and efficient microwave absorption. 2022 , 154, 106773		2
102	A deformable honeycomb sandwich composite felt with excellent microwave absorption performance at a low absorbent loading content. 2022 , 283, 115140		2
101	Gradient FeNi-SiO ₂ films on SiC fiber for enhanced microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2022 , 897, 163204	5.7	4
100	Micro-flower like Core-shell structured ZnCo@C@1T-2H-MoS composites for broadband electromagnetic wave absorption and photothermal performance.. 2022 , 622, 261-271		0
99	Fabrication and properties of structural microwave absorption composites based on VARI process. <i>Journal of Materials Science: Materials in Electronics</i> , 2022 , 33, 5127	2.1	
98	Hollow MOF-derived CoNi/C composites as effective electromagnetic absorbers in the X-band and Ku-band. 2022 , 10, 983-993		2
97	Electromagnetic wave absorption superalloy/graphite magnetic nanocapsules applied in wide temperature range. 2022 , 234, 109692		0
96	Magnetic FeOX/biomass carbon composites with broadband microwave absorption properties. <i>Journal of Alloys and Compounds</i> , 2022 , 903, 163894	5.7	2
95	Construction of one-dimensional MoO/NC heteronanowires for microwave absorption.. 2022 , 12, 5157-5163		2
94	Investigating the electromagnetic wave-absorbing, water repellency, and flame-retardant effectiveness of nickel/iron/PPTA-blended knitted fabrics. 152808372110654		
93	Oxygen-vacancy-rich Fe ₃ O ₄ /carbon nanosheets enabling high-attenuation and broadband microwave absorption through the integration of interfacial polarization and charge-separation polarization.		2
92	Recent advancements in the electromagnetic interference shielding performance of nanostructured materials and their nanocomposites: a review. 2022 , 10, 7431-7496		4
91	Fe Doped Zif-67 Dodecahedrons Anchored on the Enteromorpha Prolifera Derived Biochar with Excellent Microwave Absorption Properties. <i>SSRN Electronic Journal</i> ,		1
90	Optically Transparent Frequency-Tunable Microwave Absorber Based on Patterned Graphene-ITO Structure. 2022 , 1-1		0

89	Interface engineering in the hierarchical assembly of carbon-confined Fe ₃ O ₄ nanospheres for enhanced microwave absorption.		2
88	Optical and electromagnetic absorption features of hierarchical pampon and cauliflower-like magneto/dielectric composite based absorber for C and X bands application. <i>Ceramics International</i> , 2022 ,	5.1	
87	Excellent Microwave Absorbing Properties of Nd ³⁺ -Doped Ni ₂ Zn Ferrite/PANI Nanocomposite for Ku Band. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2100505	1.6	0
86	A design of core-shell structure for MnO ₂ microspheres with tunable electromagnetic wave absorption performance. <i>Ceramics International</i> , 2022 ,	5.1	2
85	Introducing graphite nanosheets to change the microscopic morphology of CoS nanoparticles to obtain ultra-thin and excellent electromagnetic wave absorption performance. <i>Diamond and Related Materials</i> , 2022 , 124, 108913	3.5	0
84	Bandwidth analysis of microwave metamaterial absorber with a resistive frequency selective surface by using an equivalent circuit model. 2022 , 148, 154160		0
83	Binary hybrid filler composite formulations of surface modified Fe ₃ SiAl alloys for multifunctional EMI shielding and thermal conduction. <i>Materials Chemistry and Physics</i> , 2022 , 284, 126024	4.4	
82	BCN nanosheets derived from coconut shells with outstanding microwave absorption and thermal conductive properties. <i>Chemical Engineering Journal</i> , 2022 , 437, 135285	14.7	7
81	Effect of copper sulfide nanosphere shell on microstructure and microwave absorption properties of cobalt ferrite/carbon nanotube composites. <i>Journal of Alloys and Compounds</i> , 2022 , 909, 164676	5.7	0
80	Broadband Microwave Absorption and Adaptable Multifunctionality of Carbonaceous Chiral Metamaterials under Deep Subwavelength Thickness. <i>ACS Applied Electronic Materials</i> , 2022 , 4, 177-187 ⁴		1
79	Electrochemical Growth of High-Strength Carbon Nanocoils in Molten Carbonates.. <i>Nano Letters</i> , 2021 ,	11.5	3
78	Transparent and High-Absolute-Effectiveness Electromagnetic Interference Shielding Film Based on Single-Crystal Graphene. <i>Advanced Materials Technologies</i> , 2101465	6.8	1
77	High-efficient electromagnetic absorption and composites of carbon microspheres. <i>Journal of Applied Physics</i> , 2021 , 130, 230902	2.5	2
76	Magnetic nanomaterials for electromagnetic interference shielding application. 2022 , 607-622		
75	Customizing Heterointerfaces in Multilevel Hollow Architecture Constructed by Magnetic Spindle Arrays Using the Polymerizing-Etching Strategy for Boosting Microwave Absorption.. <i>Advanced Science</i> , 2022 , e2200804	13.6	5
74	Fe Doped Zif-67 Dodecahedrons Anchored on the Enteromorpha Prolifera Derived Biochar with Excellent Microwave Absorption Properties. <i>SSRN Electronic Journal</i> ,	1	
73	Composition Design and Performance Regulation of Three-Dimensional Interconnected Feni@Carbon Nanofibers as Ultra-Lightweight and High Efficiency Electromagnetic Wave Absorbers. <i>SSRN Electronic Journal</i> ,	1	
72	Novel MOF-derived 3D hierarchical needlelike array architecture with excellent EMI shielding, thermal insulation and supercapacitor performance.. <i>Nanoscale</i> , 2022 , 14, 7322-7331	7.7	6

71	Formation of Sn filled CNTs nanocomposite: Study of their magnetic, dielectric properties and enhanced microwave absorption performance at gigahertz frequencies. <i>Ceramics International</i> , 2022 ,	5.1	0
70	Vortex tuning magnetization configurations in porous Fe ₃ O ₄ nanotube with wide microwave absorption frequency. <i>Nano Research</i> ,	10	2
69	Chiral Asymmetric Polarizations Generated by Bioinspired Helical Carbon Fibers to Induce Broadband Microwave Absorption and Multispectral Photonic Manipulation. <i>Advanced Optical Materials</i> , 2200249	8.1	1
68	Biomass carbon materials with porous array structures derived from soybean dregs for effective electromagnetic wave absorption. <i>Diamond and Related Materials</i> , 2022 , 126, 109054	3.5	0
67	From waste to wealth: Crumb rubber@carbon nanotube/Fe ₃ O ₄ composites towards highly effective electromagnetic microwave absorption with wide bandwidth. <i>Diamond and Related Materials</i> , 2022 , 126, 109089	3.5	0
66	Collaboratively intercalated 1D/3D carbon nanoarchitectures in rGO-based aerogel for supercapacitor electrodes with superior capacitance retention. <i>Applied Surface Science</i> , 2022 , 596, 153566	6.7	1
65	A study on the electrical, magnetic, optical and structural properties of bare biomass derived holey carbon absorbent. <i>Materials Chemistry and Physics</i> , 2022 , 126262	4.4	
64	Magnetic Carbon Composites Derived from Coal Hydrogasification Residue for Microwave Absorption. <i>Physica Status Solidi (A) Applications and Materials Science</i> ,	1.6	
63	Broadband electromagnetic wave absorbing performance by designing the foam structure and double-layer for cement-based composites containing MWCNTs. <i>Cement and Concrete Composites</i> , 2022 , 131, 104595	8.6	0
62	Intrinsic mechanism and multiphysics analysis of electromagnetic wave absorbing materials: New horizons and breakthrough. <i>Journal of Materials Science and Technology</i> , 2022 ,	9.1	1
61	Ozone-activated CNTs to induce uniform coating of MnO ₂ as high-performance supercapacitor electrodes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 1-7	1.8	2
60	CNTs/biomass carbon composites derived from dictyostelium for electromagnetic wave absorption. <i>Diamond and Related Materials</i> , 2022 , 127, 109136	3.5	0
59	Low temperature thermal ALD process for nickel utilizing dichlorobis(triethylphosphine)nickel(II) and 1,4-bis(trimethylgermyl)-1,4-dihydropyrazine. <i>Dalton Transactions</i> ,	4.3	0
58	Rationally tailoring interface characteristics of ZnO/amorphous carbon/graphene for heat-conduction microwave absorbers. <i>Nano Research</i> ,	10	1
57	Synthesis and microwave absorption properties of porous vanadium nitride microspheres. <i>Journal of Materials Science: Materials in Electronics</i> ,	2.1	0
56	Ni/CNTs and carbon coating engineering to synergistically optimize the interfacial behaviors of TiO ₂ for thermal conductive microwave absorbers. <i>Chemical Engineering Journal</i> , 2022 , 448, 137600	14.7	2
55	Engineering polarization surface of hierarchical ZnO microspheres via spray-annealing strategy for wide-frequency electromagnetic wave absorption. <i>Journal of Materials Science and Technology</i> , 2022 , 131, 231-239	9.1	0
54	Superior electromagnetic wave absorption performance of Fe ₃ O ₄ modified graphene assembled porous carbon (mGAPC) based hybrid foam. <i>Materials Chemistry and Physics</i> , 2022 , 126512	4.4	

53	Morphology-Evolved Succulent-like FeCo Microarchitectures with Magnetic Configuration Regulation for Enhanced Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> ,	9.5	2
52	Electrospinning preparation of hollow porous Sn _{0.84} Sm _{0.08} Sb _{0.08} O ₂ micro/nano fibers and their multispectral compatible stealth properties. <i>Ceramics International</i> , 2022 ,	5.1	0
51	Microwaves, a potential treatment for bacteria: A review. <i>Frontiers in Microbiology</i> , 13,	5.7	1
50	Electrodeposited Magnetic Nanowires with Radial Modulation of Composition. <i>Nanomaterials</i> , 2022 , 12, 2565	5.4	0
49	Advances in core-shell engineering of carbon-based composites for electromagnetic wave absorption.		5
48	Flexible carbon fiber-based composites for electromagnetic interference shielding.		0
47	One-Dimensional Magnetic FeCoNi Alloy Toward Low-Frequency Electromagnetic Wave Absorption. 2022 , 14,		5
46	MoSe ₂ Nanosheets Decorated Co/C Fibrous Composite Towards High Efficiency Electromagnetic Wave Absorption. 2022 , 107169		1
45	One-dimensional metallic, magnetic, and dielectric nanomaterials-based composites for electromagnetic wave interference shielding.		0
44	Microwave absorbing properties of metatitanic acid and metatitanic acid-titanium carbide mixtures for rutile titanium dioxide fabrication. 2022 , 562, 169775		0
43	Flower-like bimetal-organic framework derived composites with tunable structures for high-efficiency electromagnetic wave absorption. 2022 , 628, 261-270		1
42	Improved Microwave Absorption Performance with Sustainable Porous Carbon/Carbon Nanotube Composites. 2022 , 25,		0
41	Constructing magnetic iron-based core-shell structure and dielectric nitrogen-doped reduced graphene oxide nanocomposite for enhanced microwave absorption performance. 2023 , 607, 155013		1
40	Facile synthesis of nitrogen-doped porous Ni@C nanocomposites with excellent synergistically enhanced microwave absorption and thermal conductive performances. 2023 , 201, 587-598		3
39	Synthesis and Characterization of a New Mesoporous Carbon-Containing Electromagnetic Wave Absorber.		0
38	Porous nickel-zinc ferrite/polyaniline/polyimide composite based on improved impedance matching for electromagnetic microwave absorption.		0
37	Magnetic Field Influence on the Microwave Characteristics of Composite Samples Based on Polycrystalline Y-Type Hexaferrite. 2022 , 14, 4114		0
36	Carbon Nanocoils/Carbon Foam as the Dynamically Frequency-Tunable Microwave Absorbers with an Ultrawide Tuning Range and Absorption Bandwidth. 2209898		2

- 35 Synthesis and electromagnetic wave absorption properties of Gd-Co ferrite@carbon core-shell structure composites. ○
- 34 Plasma-enhanced interfacial engineering of FeSiAl@PUA@SiO₂ hybrid for efficient microwave absorption and anti-corrosion. ○
- 33 Phase transformation from FeSe to Fe₃Se₄. **2023**, 934, 168045 ○
- 32 Electroless plating silver nanoparticles mixed in oxidized microcrystalline cellulose for microwave absorption applications. ○
- 31 Much enhanced electromagnetic wave absorbing properties from the synergistic effect of graphene/graphyne heterostructure in both gigahertz and terahertz band ranges. ○
- 30 Fe₃O₄@graphite Composites as a Microwave Absorber with Bimodal Microwave Absorption. 1
- 29 Nanowires/nanohelices hybrid carbon aerogels as the lightweight and hydrophobic microwave absorbers with excellent electrothermal properties. **2023**, 204, 7-16 1
- 28 High-performance pinecone-like MOF derivative electromagnetic wave-absorbing composite via in situ anisotropic-oriented growth. **2023**, 937, 168283 ○
- 27 Multi-carbon encapsulating soft-magnetic nanocomposite with environmentally adaptive wideband electromagnetic wave absorption. **2023**, 936, 168216 ○
- 26 Conformal Three-Dimensional Platinum Coating Using Rotary-Type Atomic Layer Deposition for a Diesel Oxidation Catalyst Application. ○
- 25 A Multifunctional Reconfigurable Absorber Enabled by Graphene and Shape Memory Alloy. 2202125 ○
- 24 Highly Stretchable Composite Foams via Sustainable Utilization of Waste Tire Rubbers for Temperature-Dependent Electromagnetic Wave Absorption. **2022**, 27, 8971 ○
- 23 A nanocomposite of dual-phase Fe/TiCN wrapped in nitrogen-doped carbon with magnetic and dielectric characters for superior microwave absorption. **2022**, ○
- 22 Polymer-based nanocomposites: Role of interface for effective microwave absorption. **2023**, 100981 ○
- 21 Ultralight pyrolytic carbon foam reinforced with amorphous carbon nanotubes for broadband electromagnetic absorption. **2023**, 30, 570-580 ○
- 20 Hollow structured (Ni/C)/ZnFe₂O₄ composite with enhanced low-frequency microwave absorption performance. **2023**, 170405 ○
- 19 Efficient microwave absorption achieved through in situ construction of core-shell CoFe₂O₄@mesoporous carbon hollow spheres. **2023**, 30, 504-514 ○
- 18 Heterostructured Ni₃B/Ni nanosheets for excellent microwave absorption and supercapacitive application. **2023**, ○

- 17 Preparation of hierarchical hollow structured Ni/C microspheres with strong and broadband microwave absorption properties in Ku band. **2023**, 567, 170348 ○
- 16 Flexible cobalt nanoparticles/carbon nanofibers with macroporous structures toward superior electromagnetic wave absorption. **2023**, 636, 194-203 ○
- 15 Structure Control of Large-Sized Graphene Foams for Outstanding Microwave Absorption, Thermal Insulation, and Mechanical Stability. 2201572 ○
- 14 Optimizing impedance matching and interfacial characteristics of aromatic polyimide/graphene by molecular layer deposition for heat-conducting microwave absorption. ○
- 13 Defect Dipole-Induced HfO₂-Coated Ti₃C₂T_x MXene/Nickel Ferrite Nanocomposites for Enhanced Microwave Absorption. **2023**, 6, 1839-1848 ○
- 12 Confined magnetic vortex motion from metal-organic frameworks derived Ni@C microspheres boosts electromagnetic wave energy dissipation. **2023**, 2, 100111 ○
- 11 Graphite-ring-stacked carbon nanotubes synthesized during the rescue of Ti₃C₂T_x MXene for dual-peak electromagnetic wave absorption. **2023**, 945, 169342 ○
- 10 Hydrogen bonded interface self-assembled ZnFe₂O₄@PDA@Ti₃C₂T_x MXene composites with three-dimensional core/shell/shell structure for ultrathin high-performance electromagnetic wave absorbers. **2023**, 945, 169372 ○
- 9 Efficient electromagnetic wave absorption and Joule heating via ultra-light carbon composite aerogels derived from bimetal-organic frameworks. **2023**, 459, 141677 ○
- 8 Controllable coating NiAl-layered double hydroxides on carbon nanofibers as anticorrosive microwave absorbers. **2023**, 151, 109-118 ○
- 7 Tailoring carbon-based nanofiber microstructures for electromagnetic absorption, shielding, and devices. ○
- 6 Preparation and microwave absorption properties of tubular carbon nanofibers and magnetic nanofibers. **2023**, 249-298 ○
- 5 Flexible CNTs/CNF-WPU aerogel for smart electromagnetic wave absorbing with tuning effective absorption bandwidth. **2023**, 207, 13-22 ○
- 4 Extreme Gradient Boosting to Predict Atomic Layer Deposition for Platinum Nano-Film Coating. **2023**, 39, 4984-4992 ○
- 3 Enhanced electromagnetic wave absorption based on Ti₃C₂T_x loaded nickel nanoparticles via polydopamine connection. **2023**, ○
- 2 Sequential Architecture Induced Strange Dielectric-Magnetic Behaviors in Ferromagnetic Microwave Absorber. ○
- 1 Three dimensional carbon aerogel for microwave absorption from chitosan. **2023**, 295, 117352 ○