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Shell thickness-dependent microwave absorption of core-shell Fe<sub>3</sub>O<sub>4</sub>@C composites

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#	Paper	IF	Citations
791	Magnetized MXene Microspheres with Multiscale Magnetic Coupling and Enhanced Polarized Interfaces for Distinct Microwave Absorption via a Spray-Drying Method.		
790	Ultrathin MoS <sub>2</sub> Nanosheets Encapsulated in Hollow Carbon Spheres: A Case of a Dielectric Absorber with Optimized Impedance for Efficient Microwave Absorption.		
789	Fe <sub>3</sub> O <sub>4</sub> @Carbon@Polyaniline Trilaminar CoreShell Composites as Superior Microwave Absorber in Shielding of Electromagnetic Pollution.		
788	Fabrication of Fe <sub>3</sub> O <sub>4</sub> @C core-shell nanotubes and their application as a lightweight microwave absorbent. <b>2014</b> , 4, 55738-55744		48
787	CoxFey@C Composites with Tunable Atomic Ratios for Excellent Electromagnetic Absorption Properties. <i>Scientific Reports</i> , <b>2015</b> , 5, 18249	4.9	84
786	Shape-Evolution and Growth Mechanism of Fe <sub>3</sub> O <sub>4</sub> Polyhedrons. <b>2015</b> , 2015, 1-7		3
785	Mesoporous Fe/C and CoreShell FeFe <sub>3</sub> C@C composites as efficient microwave absorbents. <b>2015</b> , 211, 97-104		39
784	Iron carbide and nitride via a flexible route: synthesis, structure and magnetic properties. <b>2015</b> , 5, 21670-21674		15
783	A carbon fiber based three-phase heterostructure composite CF/Co <sub>0.2</sub> Fe <sub>2.8</sub> O <sub>4</sub> /PANI as an efficient electromagnetic wave absorber in the Ku band. <b>2015</b> , 5, 50024-50032		31
782	Facile synthesis of porous coin-like iron and its excellent electromagnetic absorption performance. <b>2015</b> , 5, 25936-25941		31
781	Effect of annealing temperature on the structure of carbon encapsulated Fe <sub>3</sub> O <sub>4</sub> nanospheres. <b>2015</b> , 5, 106787-106794		13
780	Growth of Fe <sub>3</sub> O <sub>4</sub> nanosheet arrays on graphene by a mussel-inspired polydopamine adhesive for remarkable enhancement in electromagnetic absorptions. <b>2015</b> , 5, 101121-101126		38
779	A novel microwave absorption material of Ni doped cryptomelane type manganese oxides. <i>Ceramics International</i> , <b>2015</b> , 41, 5688-5695	5.1	12
778	Designed fabrication and characterization of three-dimensionally ordered arrays of core-shell magnetic mesoporous carbon microspheres. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5312-9	9.5	94
777	Single-crystal octahedral CoFe <sub>2</sub> O <sub>4</sub> nanoparticles loaded on carbon balls as a lightweight microwave absorbent. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 633, 11-17	5.7	22
776	Magnetic C-C@Fe <sub>3</sub> O <sub>4</sub> double-shelled hollow microspheres via aerosol-based Fe <sub>3</sub> O <sub>4</sub> @C-SiO <sub>2</sub> core-shell particles. <b>2015</b> , 51, 2991-4		18
775	Design and fabrication of carbon fiber/carbonyl iron core-shell structure composites as high-performance microwave absorbers. <b>2015</b> , 5, 8713-8720		31

774	Facile synthesis of crumpled ZnS net-wrapped Ni walnut spheres with enhanced microwave absorption properties. <b>2015</b> , 5, 9806-9814		58
773	NiFe <sub>2</sub> O <sub>4</sub> , Fe <sub>3</sub> O <sub>4</sub> @Fe <sub>x</sub> Ni <sub>y</sub> or Fe <sub>x</sub> Ni <sub>y</sub> loaded porous activated carbon balls as lightweight microwave absorbents. <b>2015</b> , 5, 8248-8257		18
772	Synthesis of FeNi <sub>3</sub> nanocrystals encapsulated in carbon nanospheres/reduced graphene oxide as a light weight electromagnetic wave absorbent. <b>2015</b> , 5, 64878-64885		34
771	Co <sub>3</sub> Fe <sub>7</sub> /C core-shell microspheres as a lightweight microwave absorbent. <b>2015</b> , 163, 431-438		13
770	Thermal conversion of an Fe <sub>3</sub> O <sub>4</sub> @metal-organic framework: a new method for an efficient Fe-Co/nanoporous carbon microwave absorbing material. <b>2015</b> , 7, 12932-42		366
769	Co <sup>2+</sup> /Co <sup>3+</sup> ratio dependence of electromagnetic wave absorption in hierarchical NiCo <sub>2</sub> O <sub>4</sub> @NiO <sub>2</sub> hybrids. <b>2015</b> , 3, 7677-7690		364
768	Carbothermally synthesized core-shell carbon/magnetite porous nanorods for high-performance electromagnetic wave absorption and the effect of the heterointerface. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 639, 280-288	5-7	57
767	Flexible nanocomposites with enhanced microwave absorption properties based on Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> nanorods and polyvinylidene fluoride. <b>2015</b> , 3, 12197-12204		125
766	Porous Three-Dimensional Flower-like Co/CoO and Its Excellent Electromagnetic Absorption Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 9776-83	9-5	417
765	Metal organic framework-derived Fe/C nanocubes toward efficient microwave absorption. <b>2015</b> , 3, 13426-13434		44
764	Facile preparation and enhanced microwave absorption properties of core-shell composite spheres composited of Ni cores and TiO <sub>2</sub> shells. <b>2015</b> , 17, 8802-10		130
763	Hydrophobic graphene nanosheets decorated by monodispersed superparamagnetic Fe <sub>3</sub> O <sub>4</sub> nanocrystals as synergistic electromagnetic wave absorbers. <b>2015</b> , 3, 4452-4463		152
762	In situ synthesis of novel urchin-like ZnS/Ni <sub>3</sub> S <sub>2</sub> @Ni composite with a core-shell structure for efficient electromagnetic absorption. <b>2015</b> , 3, 10862-10869		95
761	A facile hydrothermal synthesis of MnO <sub>2</sub> nanorod/reduced graphene oxide nanocomposites possessing excellent microwave absorption properties. <b>2015</b> , 5, 88979-88988		89
760	A solvothermal transformation of Fe <sub>2</sub> O <sub>3</sub> nanocrystals to Fe <sub>3</sub> O <sub>4</sub> polyhedrons. <b>2015</b> , 17, 8602-8606		11
759	Graphene aerogel composites derived from recycled cigarette filters for electromagnetic wave absorption. <b>2015</b> , 3, 11893-11901		102
758	Facile Synthesis of Novel Heterostructure Based on SnO <sub>2</sub> Nanorods Grown on Submicron Ni Walnut with Tunable Electromagnetic Wave Absorption Capabilities. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 18815-23	9-5	153
757	Fe-, Co-, and Ni-Loaded Porous Activated Carbon Balls as Lightweight Microwave Absorbents. <b>2015</b> , 16, 3458-67		19

756	Multiscale Assembly of Grape-Like Ferroferric Oxide and Carbon Nanotubes: A Smart Absorber Prototype Varying Temperature to Tune Intensities. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 19408-15	9.5	267
755	Fabrication of Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @RGO nanocomposites and their excellent absorption properties with low filler content. <b>2015</b> , 5, 71718-71723		61
754	Tunable microwave absorbing properties of barium hexa-ferrite nano powders by surface carbonized layers. <b>2015</b> , 158, 53-57		16
753	Modulation of electromagnetic wave absorption by carbon shell thickness in carbon encapsulated magnetite nanospindles/poly(vinylidene fluoride) composites. <b>2015</b> , 95, 870-878		158
752	Facile synthesis of a CNT@Fe@SiO <sub>2</sub> ternary composite with enhanced microwave absorption performance. <b>2015</b> , 5, 76836-76843		74
751	Constructing Uniform Core-Shell PPy@PANI Composites with Tunable Shell Thickness toward Enhancement in Microwave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 20090-9	9.5	343
750	Achieving hierarchical hollow carbon@Fe@Fe <sub>3</sub> O <sub>4</sub> nanospheres with superior microwave absorption properties and lightweight features. <b>2015</b> , 3, 10232-10241		317
749	Preparation of Magnetic Hybrid Microspheres with Well-Defined Yolk-Shell Structure. <b>2016</b> , 2016, 1-7		0
748	Lightweight hollow carbon nanospheres with tunable sizes towards enhancement in microwave absorption. <b>2016</b> , 108, 234-241		173
747	Porous CNTs/Co Composite Derived from Zeolitic Imidazolate Framework: A Lightweight, Ultrathin, and Highly Efficient Electromagnetic Wave Absorber. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 34686-34698	9.5	306
746	Three-dimensional (3D) Fe <sub>2</sub> O <sub>3</sub> /polypyrrole (PPy) nanocomposite for effective electromagnetic absorption. <b>2016</b> , 6, 065021		15
745	Precise synthesis of discrete and dispersible carbon-protected magnetic nanoparticles for efficient magnetic resonance imaging and photothermal therapy. <i>Nano Research</i> , <b>2016</b> , 9, 1460-1469	10	25
744	A wormhole-like porous carbon/magnetic particles composite as an efficient broadband electromagnetic wave absorber. <b>2016</b> , 8, 8899-909		266
743	Fabrication of microwave absorbing CoFe <sub>2</sub> O <sub>4</sub> coatings with robust superhydrophobicity on natural wood surfaces. <i>Ceramics International</i> , <b>2016</b> , 42, 13199-13206	5.1	21
742	Electromagnetic functionalized Co/C composites by in situ pyrolysis of metal-organic frameworks (ZIF-67). <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 681, 384-393	5.7	177
741	Synthesis and excellent microwave absorption property of polyaniline nanorods coated Li <sub>0.435</sub> Zn <sub>0.195</sub> Fe <sub>2.37</sub> O <sub>4</sub> nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 7776-7787	2.1	31
740	Well-Defined Core-Shell Fe <sub>3</sub> O <sub>4</sub> @Polypyrrole Composite Microspheres with Tunable Shell Thickness: Synthesis and Their Superior Microwave Absorption Performance in the Ku Band. <b>2016</b> , 55, 6263-6275		109
739	Interface Strategy To Achieve Tunable High Frequency Attenuation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 6529-38	9.5	238

738	Facile Hydrothermal Synthesis of Fe <sub>3</sub> O <sub>4</sub> /C Core-Shell Nanorings for Efficient Low-Frequency Microwave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7370-80	9.5	412
737	Achieving excellent bandwidth absorption by a mirror growth process of magnetic porous polyhedron structures. <i>Nano Research</i> , <b>2016</b> , 9, 1813-1822	10	190
736	Bifunctional Ag/Fe/N/C Catalysts for Enhancing Oxygen Reduction via Cathodic Biofilm Inhibition in Microbial Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 6992-7002	9.5	61
735	A core-shell polypyrrole@silicon carbide nanowire (PPy@SiC) nanocomposite for the broadband elimination of electromagnetic pollution. <b>2016</b> , 6, 43056-43059		39
734	Self-healing superhydrophobic polyvinylidene fluoride/Fe <sub>3</sub> O <sub>4</sub> @polypyrrole fiber with core-shell structures for superior microwave absorption. <i>Nano Research</i> , <b>2016</b> , 9, 2034-2045	10	111
733	Formation of reworkable nanocomposite adhesives by dielectric heating of epoxy resin embedded Fe <sub>3</sub> O <sub>4</sub> hollow spheres. <b>2016</b> , 18, 6096-6101		7
732	Rational construction of graphene oxide with MOF-derived porous NiFe@C nanocubes for high-performance microwave attenuation. <i>Nano Research</i> , <b>2016</b> , 9, 3671-3682	10	157
731	Facile synthesis of net-like Fe <sub>3</sub> O <sub>4</sub> /MWCNTs decorated by SnO <sub>2</sub> nanoparticles as a highly efficient microwave absorber. <b>2016</b> , 6, 97142-97151		31
730	Small magnetic Co-doped NiZn ferrite/graphene nanocomposites and their dual-region microwave absorption performance. <b>2016</b> , 4, 9738-9749		327
729	Growth mechanism and magnetism in carbothermal synthesized Fe <sub>3</sub> O <sub>4</sub> nanoparticles from solution combustion precursors. <b>2016</b> , 420, 225-231		13
728	Electromagnetic Property and Tunable Microwave Absorption of 3D Nets from Nickel Chains at Elevated Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22615-22	9.5	242
727	Gamma irradiation induced synthesis of electromagnetic functionalized aligned Co <sub>x</sub> Ni <sub>1-x</sub> alloy nanobundles. <b>2016</b> , 6, 72263-72268		7
726	Enhanced microwave absorption material of ternary nanocomposites based on MnFe <sub>2</sub> O <sub>4</sub> @SiO <sub>2</sub> , polyaniline and polyvinylidene fluoride. <b>2016</b> , 6, 88104-88109		25
725	High-Frequency Absorption of the Hybrid Composites with Spindle-like Fe <sub>3</sub> O <sub>4</sub> Nanoparticles and Multiwalled Carbon Nanotubes. <b>2016</b> , 11, 1650097		5
724	Facile one-pot synthesis of carbon/calcium phosphate/Fe <sub>3</sub> O <sub>4</sub> composite nanoparticles for simultaneous imaging and pH/NIR-responsive drug delivery. <b>2016</b> , 52, 11068-71		39
723	Supercooling Self-Assembly of Magnetic Shelled Core/Shell Supraparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23969-77	9.5	7
722	Magnetically recyclable Ru immobilized on amine-functionalized magnetite nanoparticles and its high selectivity to prepare cis-pinane. <b>2016</b> , 424, 269-275		14
721	The synergistic effects of carbon coating and micropore structure on the microwave absorption properties of Co/CoO nanoparticles. <b>2016</b> , 18, 30507-30514		38

7 <sup>20</sup>	Study on the characteristics of magneto-sensitive electromagnetic wave-absorbing properties of magnetorheological elastomers. <b>2016</b> , 25, 085046		24
7 <sup>19</sup>	Structure evolution of Prussian blue analogues to CoFe@C core-shell nanocomposites with good microwave absorbing performances. <b>2016</b> , 6, 105644-105652		59
7 <sup>18</sup>	Designed synthesis and surface engineering strategies of magnetic iron oxide nanoparticles for biomedical applications. <b>2016</b> , 8, 19421-19474		223
7 <sup>17</sup>	Improved electromagnetic wave absorption of Co nanoparticles decorated carbon nanotubes derived from synergistic magnetic and dielectric losses. <b>2016</b> , 18, 31542-31550		59
7 <sup>16</sup>	Synthesis and Excellent Microwave Absorption Properties of ZnO/Fe <sub>3</sub> O <sub>4</sub> /MWCNTs Composites. <b>2016</b> , 11, 1650139		16
7 <sup>15</sup>	Enhanced high-frequency absorption of anisotropic Fe <sub>3</sub> O <sub>4</sub> /graphene nanocomposites. <i>Scientific Reports</i> , <b>2016</b> , 6, 25075	4.9	55
7 <sup>14</sup>	Hybrids of cobalt nanochains and polyvinylidene fluoride with enhanced microwave absorption performance. <b>2016</b> , 6, 55546-55551		7
7 <sup>13</sup>	Effect of carbon shell thickness on the microwave absorption of magnetite-carbon core-shell nanoparticles. <i>Ceramics International</i> , <b>2016</b> , 42, 14548-14556	5.1	35
7 <sup>12</sup>	Polybenzobisoxazoles-based nanocomposites with high microwave absorption performance and excellent thermal stability. <b>2016</b> , 99, 605-613		4
7 <sup>11</sup>	Dependency of tunable microwave absorption performance on morphology-controlled hierarchical shells for core-shell Fe <sub>3</sub> O <sub>4</sub> @MnO <sub>2</sub> composite microspheres. <i>Chemical Engineering Journal</i> , <b>2016</b> , 304, 552-562	14.7	119
7 <sup>10</sup>	Ni <sub>3</sub> Sn <sub>2</sub> alloy nanocrystals encapsulated within electrospun carbon nanofibers for enhanced microwave absorption performance. <b>2016</b> , 177, 198-205		25
7 <sup>09</sup>	A simple hydrothermal process to grow MoS <sub>2</sub> nanosheets with excellent dielectric loss and microwave absorption performance. <b>2016</b> , 4, 6816-6821		187
7 <sup>08</sup>	Controllable synthesis of elliptical Fe <sub>3</sub> O <sub>4</sub> @C and Fe <sub>3</sub> O <sub>4</sub> /Fe@C nanorings for plasmon resonance-enhanced microwave absorption. <b>2016</b> , 4, 7316-7323		120
7 <sup>07</sup>	Interfacially Engineered Sandwich-Like rGO/Carbon Microspheres/rGO Composite as an Efficient and Durable Microwave Absorber. <b>2016</b> , 3, 1500684		107
7 <sup>06</sup>	A MWCNT-nanoparticle composite as a highly efficient lightweight electromagnetic wave absorber in the range of 4-18 GHz. <b>2016</b> , 6, 4695-4704		13
7 <sup>05</sup>	Microwave absorption properties of polyaniline-Fe <sub>3</sub> O <sub>4</sub> /ZnO-polyester nanocomposite: Preparation and optimization. <b>2016</b> , 366, 210-218		49
7 <sup>04</sup>	Rational design of yolk-shell C@C microspheres for the effective enhancement in microwave absorption. <b>2016</b> , 98, 599-606		209
7 <sup>03</sup>	Fe <sub>3</sub> C/C microspheres as a lightweight microwave absorbent. <b>2016</b> , 6, 24820-24826		35

702	Remediation of chromium(III)-contaminated tannery effluents by using gallic acid-conjugated magnetite nanoparticles. <b>2016</b> , 6, 29054-29063		24
701	Synthesis of monodispersed Fe <sub>3</sub> O <sub>4</sub> @C core/shell nanoparticles. <b>2016</b> , 59, 394-397		9
700	Enhanced microwave absorption properties of flake-shaped FePCB metallic glass/graphene composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 89, 33-39	8.4	55
699	Construction of CuS Nanoflakes Vertically Aligned on Magnetically Decorated Graphene and Their Enhanced Microwave Absorption Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5536-46	9.5	366
698	Co/C nanoparticles with low graphitization degree: a high performance microwave-absorbing material. <b>2016</b> , 4, 1727-1735		257
697	A novel Co/TiO <sub>2</sub> nanocomposite derived from a metal-organic framework: synthesis and efficient microwave absorption. <b>2016</b> , 4, 1860-1870		280
696	Synthesis of Fe <sub>3</sub> C branches via a hexamethylenetetramine route. <b>2016</b> , 76, 327-331		8
695	Facile large scale preparation and electromagnetic properties of silica-nickel-carbon composite shelly hollow microspheres. <b>2016</b> , 45, 2881-7		10
694	Fe <sub>3</sub> O <sub>4</sub> doped double-shelled hollow carbon spheres with hierarchical pore network for durable high-performance supercapacitor. <b>2016</b> , 99, 514-522		82
693	Synthesis and characterization of Fe <sub>3</sub> O <sub>4</sub> /polypyrrole/carbon nanotube composites with tunable microwave absorption properties: Role of carbon nanotube and polypyrrole content. <i>Chemical Engineering Journal</i> , <b>2016</b> , 285, 497-507	14.7	220
692	Fabrication and electromagnetic properties of novel FeNi alloy-coated flake graphite prepared by electroless plating. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 656, 51-57	5.7	27
691	Microwave absorption properties of FeCo-coated carbon fibers with varying morphologies. <b>2016</b> , 399, 252-259		67
690	Solvothermal synthesis of nitrogen-doped graphene decorated by superparamagnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticles and their applications as enhanced synergistic microwave absorbers. <b>2017</b> , 115, 493-502		243
689	Microwave absorption properties of double-layer absorbers based on Co <sub>0.2</sub> Ni <sub>0.4</sub> Zn <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite and reduced graphene oxide composites. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 701, 841-849	5.7	90
688	Carbon Hollow Microspheres with a Designable Mesoporous Shell for High-Performance Electromagnetic Wave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6332-6341	9.5	319
687	In Situ Growth of Core-Sheath Heterostructural SiC Nanowire Arrays on Carbon Fibers and Enhanced Electromagnetic Wave Absorption Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6320-6331	9.5	208
686	Carbonized polydopamine coated single-crystalline NiFe <sub>2</sub> O <sub>4</sub> nanooctahedrons with enhanced electrochemical performance as anode materials in a lithium ion battery. <b>2017</b> , 231, 27-35		23
685	Synthesis and microwave absorption enhancement of yolk-shell Fe <sub>3</sub> O <sub>4</sub> @C microspheres. <b>2017</b> , 52, 6349-6361		66

684	Facile synthesis of FeCo alloys with excellent microwave absorption in the whole Ku-band: Effect of Fe/Co atomic ratio. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 704, 289-295	5-7	106
683	Facile synthesis of a Sn/SnO <sub>2</sub> @C ternary composite with superior broader frequency performance. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 711, 184-189	5-7	6
682	Polypyrrole-interface-functionalized nano-magnetite epoxy nanocomposites as electromagnetic wave absorbers with enhanced flame retardancy. <b>2017</b> , 5, 5334-5344		209
681	Comparison of microwave and conventional heating methods in carbonization of polyacrylonitrile-based stabilized fibers at different temperature measured by an in-situ process temperature control ring. <b>2017</b> , 140, 32-41		19
680	Metal organic framework (MOF)-derived carbonaceous Co <sub>3</sub> O <sub>4</sub> /Co microframes anchored on RGO with enhanced electromagnetic wave absorption performances. <b>2017</b> , 228, 32-40		84
679	Synergistic Enhancement of Microwave Absorption Using Hybridized Polyaniline@helical CNTs with Dual Chirality. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15711-15718	9-5	131
678	Synthesis of iron-based hexagonal microflakes for strong microwave attenuation. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 718, 46-52	5-7	17
677	Enhanced microwave absorption property of Fe <sub>3</sub> O <sub>4</sub> /CaCu <sub>3</sub> Mg <sub>x</sub> Ti <sub>4</sub> SnyO <sub>12</sub> (0 ≤ x, y ≤ 1)/graphene oxide nanocomposites in epoxy vinyl ester resin. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 12535-12544	2-1	6
676	Rational Design of Superior Microwave Shielding Composites Employing Synergy of Encapsulating Character of Alginate Hydrogels and Task-Specific Components (Ni NPs, Fe <sub>3</sub> O <sub>4</sub> /CNTs). <b>2017</b> , 5, 5394-5407		61
675	Solvothermal fabrication and growth behavior study of spherical MnFe <sub>2</sub> O <sub>4</sub> through a bottom-up method on wood substrate with effective microwave absorption. <b>2017</b> , 7, 24764-24770		9
674	Silicate glass/Ni-NiO double shell composite hollow microspheres: Fast combustion synthesis and electromagnetic properties. <b>2017</b> , 93, 230-237		4
673	Facile preparation of in situ coated Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> composites and their electromagnetic performance. <b>2017</b> , 7, 24698-24708		108
672	Highly efficient large-scale preparation and electromagnetic property control of silica@NiFeP double shell composite hollow particles. <b>2017</b> , 7, 21721-21732		4
671	Facile Synthesis and Hierarchical Assembly of Flowerlike NiO Structures with Enhanced Dielectric and Microwave Absorption Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 16404-16416	9-5	236
670	Lightweight and efficient microwave absorbing materials based on walnut shell-derived nano-porous carbon. <b>2017</b> , 9, 7408-7418		305
669	A facile one-pot strategy for fabrication of carbon-based microwave absorbers: effects on annealing and paraffin content. <b>2017</b> , 46, 9097-9102		23
668	Preparation and enhanced microwave absorption properties of Ni-Co attached single-walled carbon nanotubes and CoFe <sub>2</sub> O <sub>4</sub> nanocomposites. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 224301	2-5	21
667	Enhanced microwave absorption properties of graphite nanoflakes by coating hexagonal boron nitride nanocrystals. <b>2017</b> , 420, 858-867		33



666	Controllable permittivity in 3D Fe <sub>3</sub> O <sub>4</sub> /CNTs network for remarkable microwave absorption performances. <b>2017</b> , 7, 26801-26808		86
665	Fabrication and microwave absorption of multiwalled carbon nanotubes anchored with CoS nanoplates. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 7622-7632	2.1	19
664	Incorporation of dielectric constituents to construct ternary heterojunction structures for high-efficiency electromagnetic response. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 498, 161-169	9.3	66
663	Synthesis and characterization of TiO <sub>2</sub> /polyaniline/graphene oxide bouquet-like composites for enhanced microwave absorption performance. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 710, 717-724	5.7	42
662	Rice husk-based hierarchically porous carbon and magnetic particles composites for highly efficient electromagnetic wave attenuation. <b>2017</b> , 5, 4695-4705		112
661	Incorporation of CoO@Co yolk-shell nanoparticles and ZnO nanoparticles with graphene sheets as lightweight and high-performance electromagnetic wave absorbing material. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 711, 552-559	5.7	27
660	A brief introduction to the fabrication and synthesis of graphene based composites for the realization of electromagnetic absorbing materials. <b>2017</b> , 5, 491-512		257
659	Enhanced Microwave Absorption Performance of Coated Carbon Nanotubes by Optimizing the FeO Nanocoating Structure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2973-2983	9.5	338
658	Solvothermal fabrication of CoS nanoparticles anchored on reduced graphene oxide for high-performance microwave absorption. <b>2017</b> , 224, 46-55		46
657	Preparation and high-performance microwave absorption of hierarchical dendrite-like Co superstructures self-assembly of nanoflakes. <b>2017</b> , 28, 485703		18
656	Controllable Fabricating Dielectric-Dielectric SiC@C Core-Shell Nanowires for High-Performance Electromagnetic Wave Attenuation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 40690-40696	9.5	93
655	Fe <sub>3</sub> O <sub>4</sub> @[email protected] Trilaminar CoreShell Composites as Superior Microwave Absorber in Shielding of Electromagnetic Pollution. <b>2017</b> , 5, 10710-10721		107
654	Bimetallic zeolitic imidazolate frameworks-derived porous carbon-based materials with efficient synergistic microwave absorption properties: the role of calcining temperature. <b>2017</b> , 7, 46436-46444		27
653	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. <b>2017</b> , 37, 301-326		11
652	Tailoring the input impedance of FeCo/C composites with efficient broadband absorption. <b>2017</b> , 46, 14926-14933		60
651	Magnetically Aligned Co-C/MWCNTs Composite Derived from MWCNT-Interconnected Zeolitic Imidazolate Frameworks for a Lightweight and Highly Efficient Electromagnetic Wave Absorber. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 30850-30861	9.5	211
650	Synthesis and Microwave Absorption Properties of BiFeO <sub>3</sub> Nanowire-RGO Nanocomposite and First-Principles Calculations for Insight of Electromagnetic Properties and Electronic Structures. <b>2017</b> , 121, 21290-21304		78
649	Development of a carbon-coated reticulated porous alumina material with tailored structural properties for potential radar-absorption applications. <i>Ceramics International</i> , <b>2017</b> , 43, 16924-16930	5.1	13

648	Dielectric polarization in electromagnetic wave absorption: Review and perspective. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 728, 1065-1075	5.7	240
647	Electromagnetic wave absorption polyimide fabric prepared by coating with core-shell NiFe <sub>2</sub> O <sub>4</sub> @PANI nanoparticles. <b>2017</b> , 7, 42891-42899		23
646	Near-infrared light and pH-responsive Au@carbon/calcium phosphate nanoparticles for imaging and chemo-photothermal cancer therapy of cancer cells. <b>2017</b> , 46, 14746-14751		17
645	FeCo alloy nanoparticles supported on ordered mesoporous carbon for enhanced microwave absorption. <b>2017</b> , 52, 13636-13649		52
644	Development of a hollow carbon sphere absorber displaying the multiple-reflection effect to attenuate electromagnetic waves. <b>2017</b> , 7, 37983-37989		11
643	Exfoliated BN shell-based high-frequency magnetic core-shell materials. <b>2017</b> , 9, 13203-13208		4
642	Electrospun Fe <sub>2</sub> O <sub>3</sub> nanotubes and Fe <sub>3</sub> O <sub>4</sub> nanofibers by citric acid sol-gel method. <b>2017</b> , 100, 5460-5470		24
641	Controllable synthesis of unique Ni/mesoporous carbon composites with lightweight and high EM wave absorption performance. <b>2017</b> , 7, 38549-38556		9
640	Microporous Co@C Nanoparticles Prepared by Dealloying CoAl@C Precursors: Achieving Strong Wideband Microwave Absorption via Controlling Carbon Shell Thickness. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 44704-44714	9.5	121
639	Carbon spheres@MnO core-shell nanocomposites with enhanced dielectric properties for electromagnetic shielding. <i>Scientific Reports</i> , <b>2017</b> , 7, 15841	4.9	26
638	1D Cu@Ni nanorods anchored on 2D reduced graphene oxide with interfacial engineering to enhance microwave absorption properties. <b>2017</b> , 19, 6579-6587		53
637	Precursor-directed synthesis of porous cobalt assemblies with tunable close-packed hexagonal and face-centered cubic phases for the effective enhancement in microwave absorption. <b>2017</b> , 52, 4399-4411		24
636	Synthesis of core-shell fishbone-like Cu@Ni composites and their electromagnetic wave absorption properties. <b>2017</b> , 319, 245-252		18
635	Synthesis and microwave absorption properties of sandwich-type CNTs/Fe <sub>3</sub> O <sub>4</sub> /RGO composite with Fe <sub>3</sub> O <sub>4</sub> as a bridge. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 15043-15049	2.1	7
634	Controlled synthesis and electromagnetic wave absorption properties of core-shell Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanospheres decorated graphene. <i>Ceramics International</i> , <b>2017</b> , 43, 1887-1894	5.1	31
633	Rational design of core-shell Co@C microspheres for high-performance microwave absorption. <b>2017</b> , 111, 722-732		493
632	Enhanced magnetic and electrochemical properties of one-step synthesized PANI-Fe <sub>3</sub> O <sub>4</sub> composite nanomaterial by a novel green solvothermal method. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 1807-1812	5.7	11
631	Facile synthesis of yolk-shell Ni@void@SnO <sub>2</sub> (Ni <sub>3</sub> Sn <sub>2</sub> ) ternary composites via galvanic replacement/Kirkendall effect and their enhanced microwave absorption properties. <i>Nano Research</i> , <b>2017</b> , 10, 331-343	10	288

630	Magnetic porous carbon microspheres synthesized by simultaneous activation and magnetization for removing methylene blue. <b>2017</b> , 24, 341-353		20
629	Fabrication of ZnO/Fe rod-like core-shell structure as high-performance microwave absorber. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 694, 549-555	5.7	24
628	Facile synthesis and enhanced electromagnetic microwave absorption performance for porous core-shell Fe <sub>3</sub> O <sub>4</sub> @MnO <sub>2</sub> composite microspheres with lightweight feature. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 693, 432-439	5.7	121
627	Effect of carbonization temperature on microwave absorbing properties of polyacrylonitrile-based carbon fibers. <b>2017</b> , 25, 637-641		8
626	Solvothermal Synthesis of Reduced Graphene Oxide/Ferroferric Oxide Hybrid Composites with Enhanced Microwave Absorption Properties. <b>2017</b> , 12, 1750144		11
625	Recent Advances in Conjugated Polymer-Based Microwave Absorbing Materials. <b>2017</b> , 9,		68
624	Template-Free Formation of Uniform Fe <sub>3</sub> O <sub>4</sub> Hollow Nanoflowers Supported on Reduced Graphene Oxide and Their Excellent Microwave Absorption Performances. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1701049	1.6	21
623	Novel 031 type of heterostructured MoS <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> -C ternary nanohybrid: Synthesis, and enhanced microwave absorption properties. <b>2018</b> , 442, 622-629		39
622	Heterostructured Nanorings of Fe-FeO@C Hybrid with Enhanced Microwave Absorption Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 9369-9378	9.5	180
621	Economical synthesis of composites of FeNi alloy nanoparticles evenly dispersed in two-dimensional reduced graphene oxide as thin and effective electromagnetic wave absorbers.. <b>2018</b> , 8, 8393-8401		30
620	Hierarchically Porous Carbons Derived from Biomasses with Excellent Microwave Absorption Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11108-11115	9.5	217
619	Synthesis and enhanced microwave absorption properties of BaM-P/BaM-T/PVB ternary composite with ordered inter-filled structure. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 7730-7738	2.1	1
618	A novel method to prepare a magnetic carbon-based adsorbent with sugar-containing water as the carbon source and DETA as the modifying reagent. <b>2018</b> , 25, 13645-13659		3
617	ZnO @ N-doped porous carbon/Co <sub>3</sub> ZnC core-shell heterostructures with enhanced electromagnetic wave attenuation ability. <i>Chemical Engineering Journal</i> , <b>2018</b> , 342, 364-371	14.7	47
616	Low-Cost Carbothermal Reduction Preparation of Monodisperse FeO/C Core-Shell Nanosheets for Improved Microwave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 16511-16520	9.5	165
615	Facile synthesis of porous FeO@C core/shell nanorod/graphene for improving microwave absorption properties.. <b>2018</b> , 8, 15358-15365		16
614	SnO@C@VO Composite Hollow Nanospheres as an Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 14993-15000	9.5	40
613	Microwave-based preparation and characterization of Fe-cored carbon nanocapsules with novel stability and super electromagnetic wave absorption performance. <b>2018</b> , 135, 1-11		48

612	The similar Cole-Cole semicircles and microwave absorption of Hexagonal Co/C composites. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 750, 917-926	5.7	29
611	Optimization of porous FeNi <sub>3</sub> /N-GN composites with superior microwave absorption performance. <i>Chemical Engineering Journal</i> , <b>2018</b> , 345, 441-451	14.7	160
610	Facile synthesis of three-dimensional Cu/Fe <sub>3</sub> O <sub>4</sub> nanowires as binder-free anode for lithium-ion batteries. <b>2018</b> , 450, 356-363		8
609	Nanocomposites of Oriented Nickel Chains with Tunable Magnetic Properties for High-Performance Broadband Microwave Absorption. <b>2018</b> , 1, 1116-1123		70
608	Electromagnetic Wave Absorption Performance on Fe <sub>3</sub> O <sub>4</sub> Polycrystalline Synthesized by the Synergy Reduction of Ethylene Glycol and Diethylene Glycol. <b>2018</b> , 122, 3628-3637		11
607	Preparation of TiO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> /CF composites for enhanced microwave absorbing performance. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 7194-7202	2.1	12
606	Wormlike Acid-Doped Polyaniline: Controllable Electrical Properties and Theoretical Investigation. <b>2018</b> , 122, 2032-2040		31
605	Transition metal dichalcogenides MX <sub>2</sub> (M=Mo, W; X=S, Se, Te) and MX <sub>2</sub> -CIP composites: Promising materials with high microwave absorption performance. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 743, 26-35	5.7	25
604	Study of magnetization and magnetoelectricity in CoFe <sub>2</sub> O <sub>4</sub> /BiFeO <sub>3</sub> core-shell composites. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 064101	2.5	16
603	A review of functionalized carbon nanotubes and graphene for heavy metal adsorption from water: Preparation, application, and mechanism. <b>2018</b> , 195, 351-364		441
602	In situ fabrication dynamic carbon fabrics membrane with tunable wettability for selective oil/water separation. <b>2018</b> , 61, 188-196		27
601	Magnetic Fe <sub>3</sub> O <sub>4</sub> @polyaniline nanocomposites with a tunable core-shell structure for ultrafast microwave-energy-driven reduction of Cr(VI). <b>2018</b> , 5, 487-496		20
600	Microwave absorption performance of in situ synthesized Fe <sub>3</sub> O <sub>4</sub> -SiO <sub>2</sub> hybrid fibres with enhanced environmental stability. <i>Ceramics International</i> , <b>2018</b> , 44, 6673-6680	5.1	10
599	Networks constructed by metal organic frameworks (MOFs) and multiwall carbon nanotubes (MCNTs) for excellent electromagnetic waves absorption. <b>2018</b> , 208, 198-206		18
598	An ultra-small NiFeO hollow particle/graphene hybrid: fabrication and electromagnetic wave absorption property. <b>2018</b> , 10, 2697-2703		133
597	Novel two-dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes/nano-carbon sphere hybrids for high-performance microwave absorption. <b>2018</b> , 6, 5690-5697		148
596	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> , <b>2018</b> , 752, 115-122	5.7	44
595	Cerium oxide immobilized reduced graphene oxide hybrids with excellent microwave absorbing performance. <b>2018</b> , 20, 14155-14165		43

594	Microwave absorption performance of Ni(OH) <sub>2</sub> decorating biomass carbon composites from Jackfruit peel. <b>2018</b> , 447, 261-268		55
593	Microwave absorption properties of 3D cross-linked Fe/C porous nanofibers prepared by electrospinning. <b>2018</b> , 134, 264-273		180
592	Broadband and Lightweight Microwave Absorber Constructed by in Situ Growth of Hierarchical CoFeO/Reduced Graphene Oxide Porous Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13860-13868	9.5	152
591	Fabrication and evaluation of hollow surface molecularly imprinted polymer for rapid and selective adsorption of dibenzothiophene. <i>Chemical Engineering Journal</i> , <b>2018</b> , 345, 414-424	14.7	47
590	Electromagnetic and microwave absorption characteristics of PMMA composites filled with a nanoporous resorcinol formaldehyde based carbon aerogel.. <b>2018</b> , 8, 10855-10864		6
589	Porous Co-C Core-Shell Nanocomposites Derived from Co-MOF-74 with Enhanced Electromagnetic Wave Absorption Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11333-11342	9.5	240
588	Introduction of Zn <sup>2+</sup> in BaCoTiFe <sub>10</sub> O <sub>19</sub> to tune electromagnetic parameters and improve microwave absorption properties. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 279-287	5.7	14
587	Strengthened electromagnetic absorption performance derived from synergistic effect of carbon nanotube hybrid with Co@C beads. <i>Advanced Composites and Hybrid Materials</i> , <b>2018</b> , 1, 149-159	8.7	70
586	Lightweight Microwave Absorber from Industrial Waste Fly Ash Cenosphere. <b>2018</b> , 459-466		0
585	Electrospinning of graphite/SiC hybrid nanowires with tunable dielectric and microwave absorption characteristics. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2018</b> , 104, 68-80	8.4	77
584	Design of dual-frequency electromagnetic wave absorption by interface modulation strategy. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 153-161	14.7	81
583	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. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 511, 307-317	9.3	82
582	Design of carbon sphere/magnetic quantum dots with tunable phase compositions and boost dielectric loss behavior. <i>Chemical Engineering Journal</i> , <b>2018</b> , 333, 519-528	14.7	304
581	Surface functionalization of carbonyl iron with aluminum phosphate coating toward enhanced anti-oxidative ability and microwave absorption properties. <b>2018</b> , 427, 594-602		37
580	Application of yolk-shell Fe <sub>3</sub> O <sub>4</sub> @N-doped carbon nanochains as highly effective microwave-absorption material. <i>Nano Research</i> , <b>2018</b> , 11, 1500-1519	10	216
579	MWCNTs as Conductive Network for Monodispersed Fe <sub>3</sub> O <sub>4</sub> Nanoparticles to Enhance the Wave Absorption Performances. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700543	3.5	39
578	Facile fabrication of boron and nitrogen co-doped carbon@Fe <sub>2</sub> O <sub>3</sub> /Fe <sub>3</sub> C/Fe nanoparticle decorated carbon nanotubes three-dimensional structure with excellent microwave absorption properties. <b>2018</b> , 132, 141-150		67
577	Microwave absorption enhancement and dual-nonlinear magnetic resonance of ultra small nickel with quasi-one-dimensional nanostructure. <b>2018</b> , 428, 54-60		48

576	Microwave absorbing property and preparation of CoNi@SiO <sub>2</sub> @PPy composite in X-band. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 1592-1599	2.1	16
575	Enhanced microwave absorption property of MnFe <sub>9</sub> n+3O <sub>15</sub> n+4(O <sub>11</sub> ) (M = Ba, Sr)/CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /phosphorus-doped g-C <sub>3</sub> N <sub>4</sub> nanocomposite: Preparation and optimization. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 735, 2497-2506	5.7	18
574	Improved microwave absorbing property provided by the filler's alternating lamellar distribution of carbon nanotube/ carbonyl iron/ poly (vinyl chloride) composites. <b>2018</b> , 158, 175-185		34
573	Thermo-sensitively and magnetically ordered mesoporous carbon nanospheres for targeted controlled drug release and hyperthermia application. <b>2018</b> , 84, 21-31		22
572	Prussian blue analogues derived magnetic FeCo alloy/carbon composites with tunable chemical composition and enhanced microwave absorption. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 514, 10-20	9.3	162
571	The Outside-In Approach To Construct Fe <sub>3</sub> O <sub>4</sub> Nanocrystals/Mesoporous Carbon Hollow Spheres Core/Shell Hybrids toward Microwave Absorption. <b>2018</b> , 6, 1427-1435		148
570	Facile synthesis and microwave absorption properties of double loss Ti <sub>3</sub> SiC <sub>2</sub> /Co <sub>3</sub> Fe <sub>7</sub> powders. <i>Ceramics International</i> , <b>2018</b> , 44, 1995-2001	5.1	31
569	Graphene-based microwave absorbing composites: A review and prospective. <b>2018</b> , 137, 260-277		383
568	Excellent microwave absorption properties of the h-BN@O <sub>2</sub> Fe <sub>3</sub> O <sub>4</sub> ternary composite. <b>2018</b> , 6, 11722-11730		42
567	Dynamic arrays based on magnetically controlled Fe <sub>3</sub> O <sub>4</sub> particles. <b>2018</b> , 178, 04006		
566	Acetylcholinesterase Biosensor Based On Mesoporous Hollow Carbon Spheres/Core-Shell Magnetic Nanoparticles-Modified Electrode for the Detection of Organophosphorus Pesticides. <b>2018</b> , 18,		16
565	Structure modulation induced enhancement of microwave absorption in WS <sub>2</sub> nanosheets. <b>2018</b> , 113, 243102		17
564	Directly Converting Syngas to Linear Olefins over Core-Shell FeO@MnO Catalysts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43578-43587	9.5	31
563	Enhanced Electromagnetic Wave Interference by Nanoscale Mixed-Dimensional C-MoS <sub>2</sub> Magnetic van der Waals Heterostructures. <b>2018</b> , 1, 5795-5804		12
562	Nitrogen-, Oxygen- and Sulfur-Doped Carbon-Encapsulated Ni <sub>3</sub> S <sub>2</sub> and NiS Core/Shell Architectures: Bifunctional Electrocatalysts for Hydrogen Evolution and Oxygen Reduction Reactions. <b>2018</b> , 6, 15582-15590		42
561	Controllable N-Doped Carbonaceous Composites with Highly Dispersed Ni Nanoparticles for Excellent Microwave Absorption. <b>2018</b> , 1, 5895-5906		29
560	Preparation and characterization of magnetic hollow Fe <sub>3</sub> O <sub>4</sub> /P(GMA-EGDMA)-SO <sub>3</sub> H/Au-PPy recyclable catalyst for catalytic reduction of 4-nitrophenol. <b>2018</b> , 32, e4534		11
559	The electromagnetic properties and microwave absorbing performance of titanium carbide attached single-walled carbon nanotubes. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 20260-20270	2.1	3

558	Facile synthesis of ultrasmall Fe <sub>3</sub> O <sub>4</sub> nanoparticles on MXenes for high microwave absorption performance. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2018</b> , 115, 371-382	8.4	154
557	Surface Modification of Magnetic Iron Oxide Nanoparticles. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	220
556	Biogenic Synthesis of Tunable Core-Shell C-CaIn <sub>2</sub> O <sub>4</sub> , Interface Bonding, Conductive Network Channels, and Tailored Dielectric Properties. <b>2018</b> , 6, 16298-16307		5
555	Low-temperature synthesis of manganese oxide-carbon nanotube-enhanced microwave-absorbing nanocomposites. <b>2018</b> , 53, 16288-16302		25
554	An Efficient Co/C Microwave Absorber with Tunable Co Nanoparticles Derived from a ZnCo Bimetallic Zeolitic Imidazolate Framework. <b>2018</b> , 35, 1800107		30
553	Overview of carbon nanostructures and nanocomposites for electromagnetic wave shielding. <b>2018</b> , 140, 696-733		403
552	Coaxial double-layer-coated multiwalled carbon nanotubes toward microwave absorption. <b>2018</b> , 233, 203-206		11
551	Ultra-small Co/CNTs nanohybrid from metal organic framework with highly efficient microwave absorption. <b>2018</b> , 152, 316-323		70
550	Magnetodielectric Microwave Radiation Absorbent Materials and Their Polymer Composites. <b>2018</b> , 47, 6335-6365		31
549	Ultrasmall Mo <sub>2</sub> C Nanoparticle-Decorated Carbon Polyhedrons for Enhanced Microwave Absorption. <b>2018</b> , 1, 5366-5376		60
548	Enhanced Electromagnetic Wave Absorption Performance of Co <sub>0.5</sub> Zn <sub>0.5</sub> ZIF-Derived Binary Co/ZnO and RGO Composites. <b>2018</b> , 47, 4910-4918		7
547	Carbon-coated CoFe-CoFeO composite particles with high and dual-band electromagnetic wave absorbing properties. <b>2018</b> , 29, 305604		29
546	An unusual route to grow carbon shell on Fe <sub>3</sub> O <sub>4</sub> microspheres with enhanced microwave absorption. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 762, 463-472	5.7	25
545	Reduced graphene oxide decorated with carbon nanopolyhedrons as an efficient and lightweight microwave absorber. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 528, 174-183	9.3	53
544	Waste cotton-derived magnetic porous carbon for high-efficiency microwave absorption. <b>2018</b> , 9, 70-75		68
543	Excellent microwave absorption of lamellar LaOCl/C nanocomposites with LaOCl nanoparticles embedded in carbon matrix. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 764, 701-708	5.7	7
542	Unary and binary doping effect of M <sup>2+</sup> (M=Mn, Co, Ni, Zn) substituted hollow Fe <sub>3</sub> O <sub>4</sub> approach for enhancing microwave attenuation. <i>Ceramics International</i> , <b>2018</b> , 44, 17138-17146	5.1	8
541	Fluffy microrods to heighten the microwave absorption properties through tuning the electronic state of Co/CoO. <b>2018</b> , 6, 7128-7140		75

540	Nanostructured ternary composites of PPy/CNT/NiFe <sub>2</sub> O <sub>4</sub> and PPy/CNT/CoFe <sub>2</sub> O <sub>4</sub> : Delineating and improving microwave absorption. <b>2018</b> , 21, 862-871		9
539	Facile synthesis and microwave absorption investigation of activated carbon@FeO composites in the low frequency band.. <b>2018</b> , 8, 23048-23057		14
538	Influence of morphologies on the electromagnetic and microwave absorbing properties of nickel cobaltite. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 14643-14650	2.1	12
537	Enhanced Electromagnetic Wave Absorption of Three-Dimensional Porous Fe <sub>3</sub> O <sub>4</sub> /C Composite Flowers. <b>2018</b> , 6, 12471-12480		217
536	Optimizing the Electromagnetic Wave Absorption Performances of Designed CoFe@C Yolk-Shell Structures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28839-28849	9.5	101
535	Rational design of CNTs with encapsulated Co nanospheres as superior acid- and base-resistant microwave absorbers. <b>2018</b> , 47, 11554-11562		13
534	Elucidation of microwave absorption mechanisms in Co <sub>0.1</sub> substituted Ba <sub>0.9</sub> hexaferrites in X-band. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 14995-15005	2.1	17
533	"Matryoshka Doll"-Like CeO Microspheres with Hierarchical Structure To Achieve Significantly Enhanced Microwave Absorption Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27540-27547	9.5	65
532	Fabrication and electromagnetic properties of carbon-based iron nitride composite. <b>2018</b> , 466, 22-27		17
531	Synthesis and Electromagnetic and Microwave Absorption Properties of Monodisperse Fe <sub>3</sub> O <sub>4</sub> @Fe <sub>2</sub> O <sub>3</sub> Composites. <b>2018</b> , 1, 3935-3944		31
530	Three dimensional hexagonal boron nitride nanosheet/carbon nanotube composites with light weight and enhanced microwave absorption performance. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2018</b> , 112, 515-524	8.4	60
529	Improved microwave absorbing properties by designing heterogeneous interfaces in Mo@2D-MoS <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 767, 1-6	5.7	11
528	Fe <sub>3</sub> O <sub>4</sub> @LAS/RGO composites with a multiple transmission-absorption mechanism and enhanced electromagnetic wave absorption performance. <i>Chemical Engineering Journal</i> , <b>2018</b> , 352, 510-518	14.7	148
527	Enhanced electromagnetic wave absorption performance of novel carbon-coated Fe <sub>3</sub> Si nanoparticles in an amorphous SiCO ceramic matrix. <b>2018</b> , 6, 7661-7670		18
526	The Fabrication and High-Efficiency Electromagnetic Wave Absorption Performance of CoFe/C Core-Shell Structured Nanocomposites. <b>2018</b> , 13, 68		15
525	Robust and Stable Cu Nanowire@Graphene Core-Shell Aerogels for Ultraeffective Electromagnetic Interference Shielding. <b>2018</b> , 14, e1800634		93
524	Facile synthesis of 3D flower-like Ni microspheres with enhanced microwave absorption properties. <b>2018</b> , 6, 9615-9623		74
523	Tuning the Electromagnetic Synergistic Effects for Enhanced Microwave Absorption via Magnetic Nickel Core Encapsulated in Hydrogenated Anatase TiO <sub>2</sub> Shell. <b>2018</b> , 6, 12046-12054		33



522	A new method for an efficient porous carbon/Fe <sub>3</sub> O <sub>4</sub> composite based electromagnetic wave absorber derived from a specially designed polyimide. <b>2018</b> , 155, 148-155		26
521	In-Situ Conversion of ZnO/NiZnC/CNT Composite from NiZn Bimetallic MOF Precursor with Enhanced Electromagnetic Property. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	18
520	One-step hydrothermal synthesis and enhanced microwave absorption properties of Ni <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> /graphene composites in low frequency band. <i>Ceramics International</i> , <b>2018</b> , 44, 20896-20905	5.1	40
519	Self-Assembly CoreShell Graphene-Bridged Hollow MXenes Spheres 3D Foam with Ultrahigh Specific EM Absorption Performance. <b>2018</b> , 28, 1803938		366
518	In Situ Preparation of Cobalt Nanoparticles Decorated in N-Doped Carbon Nanofibers as Excellent Electromagnetic Wave Absorbers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 22591-22601	9.5	76
517	Low temperature preparation of highly fluorinated multiwalled carbon nanotubes activated by FeO to enhance microwave absorbing property. <b>2018</b> , 29, 365703		10
516	Development of sulfide-doped Graphene/Fe <sub>3</sub> O <sub>4</sub> absorber with wide band electromagnetic absorption performance. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 770, 90-97	5.7	21
515	Fabrication of NiFeO@carbon fiber coated with phytic acid-doped polyaniline composite and its application as an electromagnetic wave absorber.. <b>2019</b> , 9, 25932-25941		62
514	Achieving MOF-derived one-dimensional porous ZnO/C nanofiber with lightweight and enhanced microwave response by an electrospinning method. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 806, 983-991	5.7	47
513	Distinct plasmon resonance enhanced microwave absorption of strawberry-like Co/C/Fe/C core-shell hierarchical flowers engineering the diameter and interparticle spacing of Fe/C nanoparticles.. <b>2019</b> , 9, 22644-22655		17
512	Preparation of SiO-MnFeO Composites via One-Pot Hydrothermal Synthesis Method and Microwave Absorption Investigation in S-Band. <i>Molecules</i> , <b>2019</b> , 24,	4.8	12
511	Foam structure to improve microwave absorption properties of silicon carbide/carbon material. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 2658-2664	9.1	22
510	Recent progress of nanomaterials for microwave absorption. <b>2019</b> , 5, 503-541		160
509	Mesoporous strontium ferrite/polythiophene composite: Influence of enwrappment on structural, thermal, and electromagnetic interference shielding. <b>2019</b> , 175, 107143		18
508	Facile fabrication for core-shell BaFe <sub>12</sub> O <sub>19</sub> @C composites with excellent microwave absorption properties. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 805, 130-137	5.7	29
507	Facile fabrication of SBA-15/polypyrrole composites with long-rod shape for enhanced electromagnetic wave absorption. <b>2019</b> , 288, 109584		11
506	Magnetic proximity effect in CoFe <sub>2</sub> O <sub>4</sub> @ BiFeO <sub>3</sub> core-shell nanoparticles. <b>2019</b> ,		0
505	Nitrogen-doped and Fe-filled CNTs/NiCo <sub>2</sub> O <sub>4</sub> porous sponge with tunable microwave absorption performance. <b>2019</b> , 153, 737-744		91

504	Transverse size effect on electromagnetic wave absorption performance of exfoliated thin-layered flake graphite. <b>2019</b> , 153, 682-690		25
503	Electromagnetic wave absorption properties of multi-walled carbon nanotubes-anatase composites in 108 GHz frequency. <i>Ceramics International</i> , <b>2019</b> , 45, 22759-22764	5.1	2
502	Core-Shell CoNi@Graphitic Carbon Decorated on B,N-Codoped Hollow Carbon Polyhedrons toward Lightweight and High-Efficiency Microwave Attenuation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 25624-25635	9.5	242
501	In situ synthesis of a multifunctional polymer with a stable core-shell structure for effective dewatering. <b>2019</b> , 141, 105858		2
500	Large-scale synthesis and outstanding microwave absorption properties of carbon nanotubes coated by extremely small FeCo-C core-shell nanoparticles. <b>2019</b> , 153, 52-61		60
499	Jute-based porous biomass carbon composited by Fe <sub>3</sub> O <sub>4</sub> nanoparticles as an excellent microwave absorber. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 803, 1119-1126	5.7	32
498	Investigation of structural, hysteresis and electromagnetic parameters for microwave absorption application in doped BaBr hexagonal ferrites at X-band. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 806, 1220-1229	5.7	29
497	Effect of Reaction Time on Microwave Absorption Properties of FeO Hollow Spheres Synthesized via Ostwald Ripening. <i>Materials</i> , <b>2019</b> , 12,	3.5	6
496	Low frequency microwave absorption property of CIPs/ZnO/Graphene ternary hybrid prepared via facile high-energy ball milling. <b>2019</b> , 356, 325-334		14
495	Self-Assembly-Magnetized MXene Avoid Dual-Agglomeration with Enhanced Interfaces for Strong Microwave Absorption through a Tunable Electromagnetic Property. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44536-44544	9.5	97
494	Enhanced Electromagnetic Wave Absorption by Porous Composites of Co-Containing Zeolitic-Imidazolate Framework. <b>2019</b> , 93, 2256-2262		
493	Two-Step Solvothermal Synthesis of (ZnCoFeO/MnNiFeO)@C-MWCNTs Hybrid with Enhanced Low Frequency Microwave Absorbing Performance. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	7
492	Electrical Tunability of Domain Wall Conductivity in LiNbO Thin Films. <b>2019</b> , 31, e1902890		38
491	Fabrication of Magnetic Cobalt and Electrically Conductive Polyaniline-Filled Three-Phase Nanocomposite for Microwave Absorption. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900663	1.6	3
490	Mass fabrication and superior microwave absorption property of multilayer graphene/hexagonal boron nitride nanoparticle hybrids. <b>2019</b> , 3,		32
489	Multi-scale magnetic coupling of Fe@SiO@C-Ni yolk@triple-shell microspheres for broadband microwave absorption. <b>2019</b> , 11, 17270-17276		44
488	Lightweight Fe@C hollow microspheres with tunable cavity for broadband microwave absorption. <b>2019</b> , 177, 107346		52
487	Three dimensional graphene-supported nitrogen-doped carbon nanotube architectures for attenuation of electromagnetic energy. <b>2019</b> , 7, 11868-11878		36

486	Achieving excellent metallic magnet-based absorbents by regulating the eddy current effect. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 105109	2.5	26
485	Investigation of the Broadband Microwave Absorption of Citric Acid Coated Fe <sub>3</sub> O <sub>4</sub> /PVDF Composite Using Finite Element Method. <b>2019</b> , 9, 3877		28
484	Synthesis of Fe <sub>3</sub> O <sub>4</sub> /carbon foams composites with broadened bandwidth and excellent electromagnetic wave absorption performance. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2019</b> , 127, 105627	8.4	100
483	Magnetically recyclable Cr complex for the dehydration of glucose to 5-HMF in acidic task specific ionic liquid. <b>2019</b> , 9, 095102		0
482	Morphology-dependent electromagnetic wave absorbing properties of iron-based absorbers: one-dimensional, two-dimensional, and three-dimensional classification. <b>2019</b> , 87, 20901		9
481	A facile coprecipitation method to synthesize FeO/Fe decorated graphite sheets with enhanced microwave absorption properties. <b>2019</b> , 30, 185704		9
480	Urchin-like polyaniline/magnetic carbon sphere hybrid with excellent electromagnetic wave absorption performance. <b>2019</b> , 248, 59-67		32
479	Preparation of microwave absorbing Co-C nanofibers with robust superhydrophobic properties by electrospinning. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 3365-3377	2.1	11
478	Core-shell FeCo@carbon nanoparticles encapsulated in polydopamine-derived carbon nanocages for efficient microwave absorption. <b>2019</b> , 145, 701-711		159
477	Two-dimensional MoS <sub>2</sub> modified using CoFe <sub>2</sub> O <sub>4</sub> nanoparticles with enhanced microwave response in the X and Ku band. <b>2019</b> , 6, 590-597		57
476	Ultralight CoNi/rGO aerogels toward excellent microwave absorption at ultrathin thickness. <b>2019</b> , 7, 441-448		144
475	A review of metal oxide-related microwave absorbing materials from the dimension and morphology perspective. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 10961-10984	2.1	57
474	Hierarchical FeO@carbon@MnO hybrid for electromagnetic wave absorber. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 553, 465-474	9.3	89
473	Rational Design of Hierarchical SiO <sub>2</sub> @TiO <sub>2</sub> Composite with Large Internal Void Space for High-Performance Microwave Absorption. <b>2019</b> , 93, 1128-1132		3
472	Biogenic Synthesis of Graphitic Carbon Nitride for Photocatalytic Degradation of Organic Dyes. <b>2019</b> , 4, 10263-10272		12
471	Mesoporous CoFe alloy@SiO <sub>2</sub> nanocapsules with controllable Co/Fe atomic ratio for highly efficient tunable electromagnetic wave absorption. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 802, 41-49	5.7	15
470	Synthesis and electromagnetic wave absorption performance of NiCo <sub>2</sub> O <sub>4</sub> nanomaterials with different nanostructures. <b>2019</b> , 21, 4568-4577		22
469	Core@shell structured flower-like Co <sub>0.6</sub> Fe <sub>2.4</sub> O <sub>4</sub> @MoS <sub>2</sub> nanocomposites: a strong absorption and broadband electromagnetic wave absorber. <b>2019</b> , 7, 8975-8981		66

468	Achieving Excellent Electromagnetic Wave Absorption Capabilities by Construction of MnO Nanorods on Porous Carbon Composites Derived from Natural Wood via a Simple Route. <b>2019</b> , 7, 11795-11805 <sup>51</sup>		
467	Enhanced microwave absorption properties of polyaniline-modified porous Fe <sub>3</sub> O <sub>4</sub> @C nanosheets. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 11907-11913	2.1	6
466	Synthesis and electromagnetic properties of one-dimensional La <sup>3+</sup> -Doped mullite based on first-principles simulation. <i>Ceramics International</i> , <b>2019</b> , 45, 17325-17335	5.1	6
465	Fibrous Composites with Double-Continuous Conductive Network for Strong Low-Frequency Microwave Absorption. <b>2019</b> , 58, 11927-11938		29
464	Enhanced electromagnetic wave absorption of worm-like hollow porous MnO@C/CNTs composites. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 797, 1086-1094	5.7	13
463	Fabrication of Three-Dimensional Flower-like Heterogeneous FeO/Fe Particles with Tunable Chemical Composition and Microwave Absorption Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19267-19276	9.5	84
462	Cobaltosic oxide fiber/Carbon Fiber composites fabricated by hydrothermal for improved electromagnetic interference shielding properties. <b>2019</b> , 33, 1950075		0
461	Fabrication of NiO/NiCoO Mixtures as Excellent Microwave Absorbers. <b>2019</b> , 14, 155		7
460	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> , <b>2019</b> , 797, 1310-1319	5.7	34
459	Double network nested foam composites with tunable electromagnetic wave absorption performances. <b>2019</b> , 6, 1579-1586		13
458	Facile synthesis of lightweight carbonized hydrochars decorated with dispersed ZnO nanocrystals and enhanced microwave absorption properties. <b>2019</b> , 150, 259-267		18
457	Preparation of magnetic flower-like carbon-matrix composites with efficient electromagnetic wave absorption properties by carbonization of MIL-101(Fe). <b>2019</b> , 487, 165306		27
456	Nanolayered flaky Fe-based amorphous-nanocrystalline/graphite sheet composites with enhanced microwave absorbing properties. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 797, 39-44	5.7	7
455	Mesoporous electromagnetic composite particles: Electric current responsive release of biologically active molecules and antibacterial properties. <b>2019</b> , 181, 85-93		11
454	Synthesis of pomegranate-like Mo <sub>2</sub> C@C nanospheres for highly efficient microwave absorption. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 312-320	14.7	85
453	Structural and magnetic evolution of Fe <sub>x</sub> O <sub>y</sub> @carbon core-shell nanoparticles synthesized by a one-step thermal pyrolysis. <b>2019</b> , 150, 213-219		9
452	Enhanced Microwave Absorption Performance from Magnetic Coupling of Magnetic Nanoparticles Suspended within Hierarchically Tubular Composite. <b>2019</b> , 29, 1901448		321
451	Lightweight Composite Microwave Absorbing Materials Based on Graphene Aerogels with Honeycomb Structure. <b>2019</b> , 13, 1900179		15

450	Electronic and Dielectric Properties of MoV-Oxide (M1 Phase) under Alkane Oxidation Conditions. <b>2019</b> , 123, 13269-13282	10
449	MnFe <sub>2</sub> O <sub>4</sub> -coated carbon nanotubes with enhanced microwave absorption: Effect of CNT content and hydrothermal reaction time. <b>2019</b> , 96, 31-43	30
448	Hierarchical core/shell bamboo-like polypyrrole nanofibers/Fe <sub>3</sub> O <sub>4</sub> hybrids with superior microwave absorption performance. <b>2019</b> , 26, 1087-1100	4
447	Synergistic influence of micropore architecture and TiO <sub>2</sub> coating on the microwave absorption properties of Co nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 5620-5630 <sup>2.1</sup>	5
446	Construction of polyaniline aligned on magnetic functionalized biomass carbon giving excellent microwave absorption properties. <b>2019</b> , 174, 176-183	48
445	Fiber-guided and particle-localized microwave absorption of nanoscale CoFe <sub>2</sub> O <sub>4</sub> derived from citric acid-based precursor. <b>2019</b> , 561, 16-22	11
444	Fe <sub>3</sub> O <sub>4</sub> quantum dots embedded in porous carbon microspheres for long-life lithium-ion batteries. <b>2019</b> , 12, 269-276	13
443	A Review on Iron Oxide-Based Nanoarchitectures for Biomedical, Energy Storage, and Environmental Applications. <b>2019</b> , 3, 1800512	47
442	Waxberry-like hierarchical Ni@C microspheres with high-performance microwave absorption. <b>2019</b> , 7, 5037-5046	127
441	Mesoporous carbon hollow microspheres with tunable pore size and shell thickness as efficient electromagnetic wave absorbers. <b>2019</b> , 167, 690-699	125
440	Great enhancement of electromagnetic wave absorption of MWCNTs@carbonaceous CoO composites derived from MWCNTs-interconnected zeolitic imidazole framework. <b>2019</b> , 481, 99-107	35
439	Porous Fe Hollow Structures with Optimized Impedance Matching as Highly Efficient, Ultrathin, and Lightweight Electromagnetic Wave Absorbers. <b>2019</b> , 58, 6446-6455	9
438	Permittivity-Regulating Strategy Enabling Superior Electromagnetic Wave Absorption of Lithium Aluminum Silicate/rGO Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 18626-18636 <sup>9.5</sup>	88
437	The effect of ZnCl activation on microwave absorbing performance in walnut shell-derived nano-porous carbon.. <b>2019</b> , 9, 9718-9728	25
436	Wheat straw-derived magnetic carbon foams: In-situ preparation and tunable high-performance microwave absorption. <i>Nano Research</i> , <b>2019</b> , 12, 1423-1429	10 50
435	Electromagnetic Response and Energy Conversion for Functions and Devices in Low-Dimensional Materials. <b>2019</b> , 29, 1807398	372
434	Review of electromagnetic interference shielding materials fabricated by iron ingredients. <b>2019</b> , 1, 1640-1671	156
433	Synthesis of magnetically controlled Fe <sub>3</sub> O <sub>4</sub> composites and their enhanced microwave absorption properties. <b>2019</b> , 6, 046104	11

432	The effect of a barium titanate xerogel precursor on the grain size and densification of fine-grained BaTiO <sub>3</sub> ceramics. <i>Ceramics International</i> , <b>2019</b> , 45, 10626-10632	5.1	7
431	In-Situ Growth and Graphitization Synthesis of Porous Fe <sub>3</sub> O <sub>4</sub> /Carbon Fiber Composites Derived from Biomass as Lightweight Microwave Absorber. <b>2019</b> , 7, 5318-5328		77
430	Composition and Structure Design of Co <sub>3</sub> O <sub>4</sub> Nanowires Network by Nickel Foam with Effective Electromagnetic Performance in C and X Band. <b>2019</b> , 7, 5543-5552		38
429	A cobalt-coated reticulated porous alumina for radar-absorption applications. <b>2019</b> , 55, 883-891		6
428	One-step hydrothermal synthesis of Ni-Fe-P/graphene nanosheet composites with excellent electromagnetic wave absorption properties.. <b>2019</b> , 9, 5570-5581		10
427	Controllable synthesis of hollow microspheres with Fe@Carbon dual-shells for broad bandwidth microwave absorption. <b>2019</b> , 147, 172-181		82
426	Metal-Organic Framework-Based PB@MoS <sub>2</sub> Core-Shell Microcubes with High Efficiency and Broad Bandwidth for Microwave Absorption Performance. <b>2019</b> , 7, 7183-7192		62
425	High-Performance Microwave Absorption of MOF-Derived Core-Shell Co@N-doped Carbon Anchored on Reduced Graphene Oxide. <b>2019</b> , 5, 558-565		40
424	Ferromagnetic Co <sub>20</sub> Ni <sub>80</sub> nanoparticles encapsulated inside reduced graphene oxide layers with superior microwave absorption performance. <b>2019</b> , 7, 2943-2953		51
423	Electromagnetic Wave Absorption Properties of Cobalt-Containing Polymer-Derived SiCN Ceramics. <b>2019</b> , 678, 012047		1
422	The Simulation of Electromagnetic Fields with Large Wavelengths. <b>2019</b> , 612, 022078		
421	Ultrathin and Light-Weight Graphene Aerogel with Precisely Tunable Density for Highly Efficient Microwave Absorbing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 46386-46396	9.5	52
420	Bimetallic MOF-derived porous CoNi/C nanocomposites with ultra-wide band microwave absorption properties. <b>2019</b> , 43, 16546-16554		27
419	Enhanced microwave absorption performance from abundant polarization sites of ZnO nanocrystals embedded in CNTs via confined space synthesis. <b>2019</b> , 11, 22539-22549		25
418	Fe/N-Codoped Hollow Carbonaceous Nanospheres Anchored on Reduced Graphene Oxide for Microwave Absorption. <b>2019</b> , 2, 8063-8074		25
417	Magnetic-field-induced synthesis of one-dimensional core/shell Fe <sub>3</sub> O <sub>4</sub> /carbon nanorods composites as a highly efficient microwave absorber. <b>2019</b> , 548, 220-231		0
416	NiFeO nanoparticles supported on cotton-based carbon fibers and their application as a novel broadband microwave absorbent.. <b>2019</b> , 9, 29959-29966		7
415	Facile synthesis of hierarchical chrysanthemum-like copper cobaltate-copper oxide composites for enhanced microwave absorption performance. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 533, 481-491	9.3	155

414	Effect of Synthesis Approaches and Morphological Properties on Dielectric Enhancement and Microwave Absorption of Fe <sub>3</sub> O <sub>4</sub> /PANI Nanocomposites. <b>2019</b> , 32, 1705-1714		5
413	Co nanoparticles supported on cotton-based carbon fibers: A novel broadband microwave absorbent. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 772, 760-769	5-7	43
412	Microporous Co/rGO nanocomposites: Strong and broadband microwave absorber with well-matched dielectric and magnetic loss. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 782, 556-565	5-7	15
411	Hierarchical formation mechanism of anisotropic magnetite microflakes and their superior microwave attenuation properties. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 781, 321-329	5-7	15
410	Investigations on structure-dependent microwave absorption performance of nano-Fe <sub>3</sub> O <sub>4</sub> coated carbon-based absorbers. <b>2019</b> , 144, 216-227		49
409	Ni@C composites derived from Ni-based metal organic frameworks with a lightweight, ultrathin, broadband and highly efficient microwave absorbing properties. <b>2019</b> , 12, 011001		17
408	Facile chemical synthesis of amorphous FeB alloy nanoparticles and their superior electromagnetic wave absorption performance. <b>2019</b> , 126, 143-149		3
407	Porous magnetic carbon nanofibers (P-CNF/Fe) for low-frequency electromagnetic wave absorption synthesized by electrospinning. <i>Ceramics International</i> , <b>2019</b> , 45, 4474-4481	5-1	30
406	Microwave absorption enhancement of porous C@CoFe <sub>2</sub> O <sub>4</sub> nanocomposites derived from eggshell membrane. <b>2019</b> , 143, 507-516		206
405	Enhanced Microwave Absorption Properties of Metal Organic Framework (MOF)-Derived Carbonaceous ZnO Incorporated Reduced Graphene Oxide Composites. <b>2019</b> , 14, 1950005		4
404	Pea-like Fe/FeC Nanoparticles Embedded in Nitrogen-Doped Carbon Nanotubes with Tunable Dielectric/Magnetic Loss and Efficient Electromagnetic Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 4268-4277	9-5	158
403	Image-guided cancer therapy using aptamer-functionalized cross-linked magnetic-responsive FeO@carbon nanoparticles. <b>2019</b> , 1056, 108-116		27
402	Realizing significant dielectric dispersion of composites based on highly conducting silver-coated glass microspheres for wide-band non-magnetic microwave absorbers. <b>2019</b> , 7, 528-542		12
401	Influence of carbothermic reduction temperature on electromagnetic and microwave absorption properties of double loss Ti <sub>3</sub> SiC <sub>2</sub> /Co <sub>3</sub> Fe <sub>7</sub> powders. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 779, 286-292	5-7	15
400	Cobalt doping-induced strong electromagnetic wave absorption in SiC nanowires. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 781, 93-100	5-7	24
399	Broadband and strong microwave absorption of Fe/Fe <sub>3</sub> C/C core-shell spherical chains enhanced by dual dielectric relaxation and dual magnetic resonances. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 782, 193-202	5-7	31
398	Fe <sub>3</sub> O <sub>4</sub> /Fe/C composites prepared by a facile thermal decomposition method and their application as microwave absorbers. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 784, 1123-1129	5-7	22
397	Facile synthesis and microwave absorption performance of coated carbon nanotubes by porous Fe <sub>3</sub> O <sub>4</sub> @C nanorods. <b>2019</b> , 248, 76-80		8

396	Achieving superior electromagnetic wave absorbers through the novel metal-organic frameworks derived magnetic porous carbon nanorods. <b>2019</b> , 145, 433-444		281
395	Microwave Absorption Enhancement of Fe/C Core-Shell Hybrid Derived from a Metal-Organic Framework. <b>2019</b> , 14, 1950002		9
394	Investigation and optimization of Fe/ZnFeO as a Wide-band electromagnetic absorber. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 536, 548-555	9.3	122
393	Tunable microwave absorption properties of nickel-carbon nanofibers prepared by electrospinning. <i>Ceramics International</i> , <b>2019</b> , 45, 3313-3324	5.1	48
392	Preparation of flower-dewdrops Fe <sub>3</sub> O <sub>4</sub> /carbon-SiO <sub>2</sub> microsphere for microwave-triggered drug delivery. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 775, 826-835	5.7	16
391	Tailor-made core/shell/shell-like Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @PPy composites with prominent microwave absorption performance. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 779, 831-843	5.7	46
390	Co/CoO@C nanocomposites with a hierarchical bowknot-like nanostructure for high performance broadband electromagnetic wave absorption. <b>2019</b> , 469, 607-616		25
389	A novel microwave absorber of FeCoNiCuAl high-entropy alloy powders: Adjusting electromagnetic performance by ball milling time and annealing. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 773, 194-201	5.7	37
388	Enhanced electromagnetic wave absorption of nanoporous Fe <sub>3</sub> O <sub>4</sub> @Carbon composites derived from metal-organic frameworks. <b>2019</b> , 142, 20-31		217
387	Statistical Optimization of the Biodiesel Production Process Using a Magnetic Core-Mesoporous Shell KOH/Fe <sub>3</sub> O <sub>4</sub> @Al <sub>2</sub> O <sub>3</sub> Nanocatalyst. <b>2019</b> , 42, 89-99		28
386	Facile synthesis RGO/MnOx composite aerogel as high-efficient electromagnetic wave absorbents. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 773, 980-987	5.7	35
385	Synthesis and enhanced microwave absorption properties of urchin-like polyaniline/Ni <sub>0.4</sub> Zn <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> composites. <b>2019</b> , 76, 3113-3125		9
384	Customized unique core-shell Fe <sub>2</sub> N@N-doped carbon with tunable void space for microwave response. <b>2020</b> , 156, 49-57		72
383	Optimization of electromagnetic wave absorbing properties for Ni-Co-P/GNs by controlling the content ratio of Ni to Co. <b>2020</b> , 495, 165753		9
382	Enhanced persulfate oxidation of organic pollutants and removal of total organic carbons using natural magnetite and microwave irradiation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 383, 123140	14.7	26
381	Hollow Ni/C microspheres derived from Ni-metal organic framework for electromagnetic wave absorption. <i>Chemical Engineering Journal</i> , <b>2020</b> , 383, 123207	14.7	170
380	Recent advances in the development OF Fe <sub>3</sub> O <sub>4</sub> -BASED microwave absorbing materials. <i>Ceramics International</i> , <b>2020</b> , 46, 1249-1268	5.1	48
379	A hybrid comprised of porous carbon nanofibers and rGO for efficient electromagnetic wave absorption. <b>2020</b> , 157, 703-713		60



378	A thin dielectric ceramic coating with good absorbing properties composed by tungsten carbide and alumina. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 818, 152851	5-7	10
377	Facile design of cubic-like cerium oxide nanoparticles decorated reduced graphene oxide with enhanced microwave absorption properties. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 817, 152766	5-7	24
376	MOFs-derived multi-chamber carbon microspheres with enhanced microwave absorption. <b>2020</b> , 157, 478-485		89
375	Direct one-step synthesis of CoFe@Co@C hybrids derived from a metal organic framework for a lightweight and high-performance microwave absorber. <b>2020</b> , 31, 095703		4
374	Enhanced electromagnetic wave absorption properties of Ni <sub>2</sub> MnGa microparticles due to continuous dual-absorption peaks. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 816, 152588	5-7	2
373	Rational design of 2D hierarchically laminated Fe <sub>3</sub> O <sub>4</sub> @nanoporous carbon@rGO nanocomposites with strong magnetic coupling for excellent electromagnetic absorption applications. <b>2020</b> , 8, 2123-2134		119
372	Oxygen-sulfur Co-substitutional Fe@C nanocapsules for improving microwave absorption properties. <b>2020</b> , 65, 623-630		40
371	Effect of nanoporosity on the electromagnetic wave absorption performance in a biomass-templated Fe <sub>3</sub> O <sub>4</sub> /C composite: a small-angle neutron scattering study. <b>2020</b> , 8, 319-327		21
370	Fabrication of microwave absorbing Ni/NiO/C nanofibers with robust superhydrophobic properties by electrospinning. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 226-238	2-1	12
369	Enhanced electromagnetic wave absorption of olive-like Fe <sub>3</sub> O <sub>4</sub> /Fe@C core-shell nanocomposite in Ku band. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 821, 153275	5-7	14
368	Ionic liquid functionalized magnetic organosilica nanocomposite: A powerful and efficient support for manganese catalyst. <b>2020</b> , 243, 122589		4
367	Constructing uniform Fe <sub>3</sub> O <sub>4</sub> @C@MnO <sub>2</sub> microspheres with yolk-shell interior toward enhancement in microwave absorption. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 817, 152795	5-7	43
366	Rational design of hollow nanosphere Fe <sub>2</sub> O <sub>3</sub> /MWCNTs composites with enhanced electromagnetic wave absorption. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 822, 153570	5-7	30
365	Sandwich-like Magnetic Graphene Papers Prepared with MOF-Derived Fe <sub>3</sub> O <sub>4</sub> for Absorption-Dominated Electromagnetic Interference Shielding. <b>2020</b> , 59, 154-165		33
364	Investigation of adjacent spacing dependent microwave absorption properties of lamellar structural Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes. <b>2020</b> , 31, 808-815		29
363	Enhancement of electromagnetic interference shielding and heat-resistance properties of silver-coated carbonyl iron powders composite material. <b>2020</b> , 499, 166244		8
362	Construction of multiple heterogeneous interface and its effect on microwave absorption of SiBCN ceramics. <i>Ceramics International</i> , <b>2020</b> , 46, 7823-7832	5-1	19
361	Three-dimensional graphene supported Fe <sub>3</sub> O <sub>4</sub> coated by polypyrrole toward enhanced stability and microwave absorbing properties. <b>2020</b> , 9, 762-772		28

360	Role of spin disorder in magnetic and EMI shielding properties of Fe <sub>3</sub> O <sub>4</sub> /C/PPy core/shell composites. <b>2020</b> , 55, 2826-2835		23
359	Balancing interface polarization strategy for enhancing electromagnetic wave absorption of carbon materials. <i>Chemical Engineering Journal</i> , <b>2020</b> , 391, 123538	14.7	28
358	CTAB-surface-functionalized magnetic MOF@MOF composite adsorbent for Cr(VI) efficient removal from aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 586, 124255	5.1	35
357	Rational construction of Co NPs embedded N-doped carbon layer/ZrSBA-15 composites with hierarchical succulent-like nanostructures for enhanced microwave absorption. <b>2020</b> , 294, 109880		7
356	Construction of a three-dimensional rGO/CoFe <sub>2</sub> O <sub>4</sub> nanorods composite with enhanced microwave absorption performance. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 18590-18604	2.1	3
355	Superior Microwave Absorption Properties Derived from the Unique 3D Porous Heterogeneous Structure of a CoS@FeO@rGO Aerogel. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
354	Biomimicry Surface-Coated Proppant with Self-Suspending and Targeted Adsorption Ability. <b>2020</b> , 5, 25824-25831		2
353	A new strategy to achieve the controllable preparation of nanoceramics with BaTiO <sub>3</sub> @resin core-shell nanoparticles. <b>2020</b> , 2, 1		
352	Preparation of Ni/C porous fibers derived from jute fibers for high-performance microwave absorption.. <b>2020</b> , 10, 36644-36653		13
351	Solvent-Free Synthesis of Ultrafine Tungsten Carbide Nanoparticles-Decorated Carbon Nanosheets for Microwave Absorption. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 153	19.5	53
350	Dual functions of glucose induced composition-controllable Co/C microspheres as high-performance microwave absorbing materials. <b>2020</b> , 168, 404-414		42
349	Preparation of Ferrite Fe <sub>3</sub> O <sub>4</sub> and Its Electromagnetic Wave Absorption Properties. <b>2020</b> , 772, 012115		1
348	Electromagnetic microwave absorption theory and recent achievements in microwave absorbers. <b>2020</b> , 168, 606-623		148
347	Enhanced microwave absorption properties of Nd-doped NiZn ferrite/polyaniline nanocomposites. <i>Ceramics International</i> , <b>2020</b> , 46, 25405-25414	5.1	12
346	Electromagnetic wave absorption properties in Ku-band of magnetic iron nitrides prepared by high energy ball milling. <b>2020</b> , 514, 167246		2
345	Reduced Graphene Oxide-CoFe <sub>2</sub> O <sub>4</sub> /FeCo Nanoparticle Composites for Electromagnetic Wave Absorption. <b>2020</b> , 3, 8939-8948		15
344	FeCoNiCuAl high entropy alloys microwave absorbing materials: Exploring the effects of different Cu contents and annealing temperatures on electromagnetic properties. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 848, 156491	5.7	10
343	A cauliflower-shaped nickel @ porous calcium silicate core-shell composite: Preparation and enhanced electromagnetic shielding performance. <b>2020</b> , 199, 108343		16

342	In-situ synthesis of layered porous coal-derived carbon/Ni magnetic composites with promising microwave absorption performance. <b>2020</b> , 513, 167231		11
341	Cornstark-derived macroporous carbon materials with enhanced microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 1	2.1	3
340	The tunable microwave absorption properties of the Co <sup>2+</sup> /Zr <sup>4+</sup> co-substituted Co <sub>2</sub> W-type hexagonal ferrites. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 20908-20918	2.1	2
339	Novel three-dimensional TiO <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> @polypyrrole composites with tunable microwave absorption in the 2-10 GHz frequency range. <b>2020</b> , 55, 15493-15509		12
338	Microwave absorption performance of Fe@Fe <sub>4</sub> N/amorphous carbon submicron fibers: critical role of the interface. <b>2020</b> , 55, 16954-16968		6
337	Realizing Maximum Microwave Absorption of Poly(3,4-ethylenedioxythiophene) with a Data-Driven Method. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2937-2944	4	10
336	Heterostructure Composites of CoS Nanoparticles Decorated on TiCT Nanosheets and Their Enhanced Electromagnetic Wave Absorption Performance. <i>Nanomaterials</i> , <b>2020</b> , 10,	5-4	6
335	Porous Fe@Fe <sub>3</sub> O <sub>4</sub> -C Nanocomposite Using Polyvinyl Alcohol Sponge as Template for Microwave Absorption. <b>2020</b> , 49, 6394-6402		6
334	Prussian Blue Derived Fe/C Anchoring on Multiwalled Carbon Nanotubes Forming Chain-Like Efficient Electromagnetic Wave Absorbent. <b>2020</b> , 49, 6631-6642		7
333	Anisotropic shaped Fe <sub>3</sub> O <sub>4</sub> nanoparticles: Microwave-assisted thermal decomposition synthesis and their electromagnetic properties. <b>2020</b> , 10, 085208		1
332	General Fabrication of 3D Hierarchically Structured Bamboo-like Nitrogen-Doped Carbon Nanotube Arrays on 1D Nitrogen-Doped Carbon Skeletons for Highly Efficient Electromagnetic Wave Energy Attenuation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 40692-40701	9.5	42
331	The enhanced microwave broadband absorbing ability of carbon microspheres via electromagnetic simulating honeycomb design. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 1	2.1	4
330	Effect of Solvothermal Reaction-Time on Microstructure and Microwave Absorption Properties of Cobalt Ferrite. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
329	Efficient microwave traps with markedly enhanced interfacial polarization and impedance matching enabled by dual-shelled, dual-cavity magnetic@dielectric hollow nanospheres. <b>2020</b> , 8, 16489-16497		9
328	Enhanced microwave absorption properties of Ti <sub>3</sub> C <sub>2</sub> MXene powders decorated with Ni particles. <b>2020</b> , 55, 10339-10350		21
327	Microwave Absorption Properties of Magnetite Particles Extracted from Nickel Slag. <i>Materials</i> , <b>2020</b> , 13,	3.5	3
326	Bead-like cobalt nanoparticles coated with dielectric SiO <sub>2</sub> and carbon shells for high-performance microwave absorber. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 578, 346-357	9.3	30
325	Preparation of Reduced Graphene Oxide/Magnetic Metal Composites and Its Electromagnetic Wave Absorption Properties. <b>2020</b> , 729, 012039		

324	Embedded MoS <sub>2</sub> -PANI nanocomposites with advanced microwave absorption performance. <b>2020</b> , 198, 108239		36
323	Surface Modification of Magnetic Nanoparticles by Carbon-Coating Can Increase Its Biosafety: Evidences from Biochemical and Neurobehavioral Tests in Zebrafish. <i>Molecules</i> , <b>2020</b> , 25,	4.8	7
322	Facile preparation of carbon nanosheet frameworks/magnetic nano hybrids with heterogeneous interface as an excellent microwave absorber. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 838, 155586	5.7	8
321	Production of hierarchical porous carbon nanosheets from cheap petroleum asphalt toward lightweight and high-performance electromagnetic wave absorbers. <b>2020</b> , 166, 218-226		38
320	Biotemplate Synthesis of Fe <sub>3</sub> O <sub>4</sub> /Polyaniline for Supercapacitor. <b>2020</b> , 30, 101554		9
319	Synthesis and enhanced electromagnetic wave absorption performances of Fe <sub>3</sub> O <sub>4</sub> @C decorated walnut shell-derived porous carbon. <b>2020</b> , 167, 148-159		70
318	Multifunctional magnetic iron oxide nanoparticles: an advanced platform for cancer theranostics. <b>2020</b> , 10, 6278-6309		99
317	Unique carbon nanofiber@ Co/C aerogel derived bacterial cellulose embedded zeolitic imidazolate frameworks for high-performance electromagnetic interference shielding. <b>2020</b> , 167, 575-584		42
316	Design of novel CNT/RGO/ZIF-8 ternary hybrid structure for lightweight and highly effective microwave absorption. <b>2020</b> , 31, 414001		7
315	Novel approach to prepare carbon-encapsulated CIPs@FeO composite for efficient absorption of low-frequency microwave. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 11059-11070	2.1	11
314	Efficient Electromagnetic Wave Absorption of Porous CoO@Co@RGO Composites with Optimized Impedance Matching Derived from Metal-Organic Frameworks. <b>2020</b> , 15, 2050104		0
313	Double-layer absorbers based on hierarchical MXene composites for microwave absorption through optimal combination. <b>2020</b> , 35, 1481-1491		4
312	Superior Microwave Absorption Based on ZnO Capped MnO <sub>2</sub> Nanostructures. <b>2020</b> , 7, 2000407		17
311	Metal-organic framework-derived C/Co/Co <sub>3</sub> O <sub>4</sub> nanocomposites with excellent microwave absorption properties in low frequencies. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 11700-11713	2.1	9
310	Nb <sub>2</sub> O <sub>5</sub> /Nb <sub>2</sub> CT <sub>x</sub> composites with different morphologies through oxidation of Nb <sub>2</sub> CT <sub>x</sub> MXene for high-performance microwave absorption. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 843, 155713	5.7	25
309	Characterization and measurement of nanostructured copper-based electromagnetic wave absorber. <b>2020</b> , 40, 313-321		
308	One pot green synthesis and EM wave absorption performance of MoS <sub>2</sub> @nitrogen doped carbon hybrid decorated with ultrasmall cobalt ferrite nanoparticles. <b>2020</b> , 163, 202-212		66
307	Superior and highly absorbed electromagnetic interference shielding performance achieved by designing the reflection-absorption-integrated shielding compartment with conductive wall and lossy core. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124644	14.7	38

306	Microwave-induced release and degradation of airborne antibiotic resistance genes (ARGs) from <i>Escherichia coli</i> bioaerosol based on microwave absorbing material. <b>2020</b> , 394, 122535		7
305	Hollow Zeolite Nanoparticles Combined with Fe <sub>3</sub> O <sub>4</sub> @MnO <sub>2</sub> Tandem Catalyst for Converting Syngas to Aromatics-Rich Gasoline. <b>2020</b> , 3, 2857-2866		7
304	Improved microwave absorption performance of a multi-dimensional Fe <sub>2</sub> O <sub>3</sub> /CNTCM@CN assembly achieved by enhanced dielectric relaxation. <b>2020</b> , 8, 5715-5726		11
303	Metal-organic framework-based Fe/C@Co <sub>3</sub> O <sub>4</sub> core-shell nanocomposites with outstanding microwave absorption properties in low frequencies. <b>2020</b> , 55, 7304-7320		24
302	Measurement of Electric and Magnetic Properties of ZnO Nanoparticles in the X-Band Using Nicolson-Ross-Weir Analysis. <b>2020</b> , 49, 3668-3676		7
301	Magnetized MXene Microspheres with Multiscale Magnetic Coupling and Enhanced Polarized Interfaces for Distinct Microwave Absorption via a Spray-Drying Method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18138-18147	9.5	56
300	Heterogeneous iron-nickel compound/RGO composites with tunable microwave absorption frequency and ultralow filler loading. <b>2020</b> , 22, 8639-8646		36
299	Optical properties of heat-treated hierarchical structure of Eu <sup>3+</sup> modified C-CaIn <sub>2</sub> O <sub>4</sub> of small core-shell crystallites. <b>2020</b> , 2, 1		
298	Construction and Microwave Absorption Properties of Core@Double-Shell Structured Fe <sub>3</sub> O <sub>4</sub> @Polyaniline@MnO <sub>2</sub> Nanospheres. <b>2020</b> , 15, 2050032		10
297	Delamination strategy to achieve Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /CNZF composites with tunable electromagnetic absorption. <b>2020</b> , 112, 105008		16
296	Carbon-encapsulated MnFe <sub>2</sub> O <sub>4</sub> nanoparticles: effects of carbon on structure, magnetic properties and Cr(VI) removal efficiency. <b>2020</b> , 126, 1		4
295	Microwave absorption and thermal conductivity properties of HO-BNNS@Fe <sub>3</sub> O <sub>4</sub> composites. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 837, 155574	5.7	6
294	A novel and facile-to-synthesize three-dimensional honeycomb-like nano-Fe <sub>3</sub> O <sub>4</sub> @C composite: Electromagnetic wave absorption with wide bandwidth. <b>2020</b> , 169, 118-128		35
293	Feasibility of as-prepared reticulated porous barium titanate without additional radar-absorbing material coating in potential military applications. <b>2020</b> , 56, 1481-1491		6
292	Design of magnetic triple-shell hollow structural Fe <sub>3</sub> O <sub>4</sub> /FeCo/C composite microspheres with broad bandwidth and excellent electromagnetic wave absorption performance. <i>Ceramics International</i> , <b>2020</b> , 46, 23932-23940	5.1	14
291	Self-cleaning functionalized FeNi/NiFe <sub>2</sub> O <sub>4</sub> /NiO/C nanofibers with enhanced microwave absorption performance. <i>Ceramics International</i> , <b>2020</b> , 46, 13397-13406	5.1	27
290	Hectogram-scale green synthesis of hierarchical 4A zeolite@CuO (OH) (0 $\leq$ $\lambda$ $\leq$ 2020, 10, 6405-6413		1
289	Necklace-like Fe <sub>3</sub> O <sub>4</sub> nanoparticle beads on carbon nanotube threads for microwave absorption and supercapacitors. <b>2020</b> , 189, 108517		33

288	Facile preparation of CoS <sub>2</sub> nanoparticles embedded into polyaniline with tunable electromagnetic wave absorption performance. <b>2020</b> , 246, 122835		13
287	Magnetic solid-phase extraction based on fluconazole-functionalized Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanoparticles for the spectrophotometric determination of cationic dyes in environmental water samples. <b>2020</b> , 17, 1591-1600		5
286	Facile One-Pot Solvothermal Synthesis of the RGO/MWCNT/FeO Hybrids for Microwave Absorption. <b>2020</b> , 5, 2899-2909		6
285	Gumdrop-cake-like CuNi/C nanofibers with tunable microstructure for microwave absorbing application. <i>Ceramics International</i> , <b>2020</b> , 46, 11406-11415	5.1	5
284	Carbon nanofibers supported by FeCo nanocrystals as difunctional magnetic/dielectric composites with broadband microwave absorption performance. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 824, 153980-7	5.7	39
283	Facile preparation and enhanced electromagnetic wave absorption properties of Fe <sub>3</sub> O <sub>4</sub> @PVDF nanocomposite. <b>2020</b> , 9, 2513-2521		9
282	Facile synthesis of porous carbon/Fe <sub>3</sub> O <sub>4</sub> composites derived from waste cellulose acetate by one-step carbothermal method as a recyclable adsorbent for dyes. <b>2020</b> , 9, 3384-3393		12
281	Viscoelastic and Magnetically Aligned Flaky Fe-Based Magnetorheological Elastomer Film for Wide-Bandwidth Electromagnetic Wave Absorption. <b>2020</b> , 59, 3425-3437		17
280	Urchin-like Amorphous Nitrogen-Doped Carbon Nanotubes Encapsulated with Transition-Metal-Alloy@Graphene Core@Shell Nanoparticles for Microwave Energy Attenuation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 9628-9636	9.5	37
279	Microwave absorption enhancement of e-Fe <sub>3</sub> O <sub>4</sub> @C microspheres by core surface modification. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 835, 155307	5.7	25
278	Synthesis and microwave absorption properties of bamboo-like SiC nanowires. <b>2020</b> , 17, 1869-1881		5
277	Co/C broad band electromagnetic wave absorption composite derived from preferred precursor ZIF-67: preparation and performance. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 6418-6434	2.1	4
276	Preparation and microwave absorption properties of petal CoO/CNFs composites. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 7606-7615	2.1	2
275	Dual-template hydrothermal synthesis of multi-channel porous NiCo <sub>2</sub> O <sub>4</sub> hollow spheres as high-performance electromagnetic wave absorber. <b>2020</b> , 515, 146132		51
274	Ultrafine FeNi Nanocrystals Embedded in 3D Honeycomb-Like Carbon Matrix for High-Performance Microwave Absorption. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	8
273	Design of molybdenum disulfide@polypyrrole compsite decorated with FeO and superior electromagnetic wave absorption performance. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 572, 227-233	9.3	48
272	Tuning of Shells in Trilaminar Core@Shell Nanocomposites in Controlling Electromagnetic Interference through Switching of the Shielding Mechanism. <b>2020</b> , 36, 4519-4531		8
271	Ultrathin MoS <sub>2</sub> Nanosheets Encapsulated in Hollow Carbon Spheres: A Case of a Dielectric Absorber with Optimized Impedance for Efficient Microwave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 20785-20796	9.5	53

270	Fe-based material@N-doped carbon composites as environment-friendly microwave absorbers. <b>2021</b> , 171, 646-657		10
269	Hybrid silica-carbon bilayers anchoring on FeSiAl surface with bifunctions of enhanced anti-corrosion and microwave absorption. <b>2021</b> , 173, 185-193		43
268	In situ-derived carbon nanotube-decorated nitrogen-doped carbon-coated nickel hybrids from MOF/melamine for efficient electromagnetic wave absorption. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 581, 783-793	9.3	48
267	PANI/BaFeO@Halloysite ternary composites as novel microwave absorbent. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 582, 137-148	9.3	16
266	In-situ growth of core-shell ZnFeO @ porous hollow carbon microspheres as an efficient microwave absorber. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 581, 475-484	9.3	45
265	Strain-regulated sensing properties of FeFe2O3 nano-cylinders with atomic carbon layers for ethanol detection. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 68, 132-139	9.1	4
264	Size-morphology control, surface reaction mechanism and excellent electromagnetic wave absorption characteristics of Fe3O4 hollow spheres. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 854, 157087	5.7	9
263	Facile synthesis of BN/Ni nanocomposites for effective regulation of microwave absorption performance. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 850, 156680	5.7	31
262	A facile and eco-friendly synthesis of Fe@SAC composite absorbers derived from alginate for highly efficient electromagnetic wave attenuation. <b>2021</b> , 271, 116637		3
261	In situ synthesis hydrophobic Co/CoO/C nanofibers with enhanced microwave absorption. <i>Ceramics International</i> , <b>2021</b> , 47, 9178-9187	5.1	10
260	Preparation of lignin-based carbon/polyaniline composites for advanced microwave absorber. <b>2021</b> , 111, 108219		3
259	High-performance electromagnetic wave absorbers based on Fe-based MOFs-derived Fe/C composites. <b>2021</b> , 272, 116663		6
258	Enhanced electromagnetic wave absorption properties of Ni magnetic coating-functionalized SiC/C nanofibers synthesized by electrospinning and magnetron sputtering technology. <b>2021</b> , 763, 138230		8
257	Boron nitride nanocomposites for microwave absorption: A review. <b>2021</b> , 13, 100108		15
256	Silicate@CoNi@Carbon triple shell sandwich structured composite hollow microspheres with low density boosted microwave absorption and high mechanical strength. <b>2021</b> , 9, 702-713		6
255	Electrostatically self-assembled two-dimensional magnetized MXene/hollow Fe3O4 nanoparticle hybrids with high electromagnetic absorption performance and improved impedance matching. <b>2021</b> , 9, 3500-3510		67
254	Effect of nitrogen-doping content on microwave absorption performances of Ni@NC nanocapsules. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 1007-1021	2.1	4
253	Multi-shell hollow porous carbon nanoparticles with excellent microwave absorption properties. <b>2021</b> , 172, 542-555		109

252	Constructing and optimizing hollow ZnFeO@polyaniline composites as high-performance microwave absorbers. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 584, 80-91	9.3	13
251	Novel yolk-shell Fe <sub>3</sub> O <sub>4</sub> @void@SiO <sub>2</sub> @PPy nanochains toward microwave absorption application. <b>2021</b> , 56, 1312-1327		21
250	Recent progress of microwave absorption microspheres by magnetic-dielectric synergy. <b>2021</b> , 13, 2136-2156		35
249	Dual synergistic effect of a carbon/metal hybrid network on the mechanical and electromagnetic interference shielding performance in self-assembly enhanced epoxy curing networks.		2
248	Ti <sup>3+</sup> self-doped dark TiO <sub>2</sub> nanoparticles with tunable and unique dielectric properties for electromagnetic applications. <b>2021</b> , 9, 1205-1214		13
247	In situ synthesis of layered coal-based carbon/Co porous magnetic composites with promising microwave absorption performance. <b>2021</b> , 45, 15525-15535		1
246	MOF-derived Co@C nanoparticle anchored aramid nanofiber (ANF) aerogel for superior microwave absorption capacity.. <b>2021</b> , 11, 26319-26325		1
245	Synthesis of hollow rod-like hierarchical structures assembled by CoFe/C nanosheets for enhanced microwave absorption.		3
244	Flexible and tunable microwave absorption structures using carbonyl iron@polydimethylsiloxane pillar arrays. <b>2021</b> , 54, 145001		1
243	Multicomponent Fe-based composites derived from the oxidation and reduction of Prussian blue towards efficient electromagnetic wave absorption. <b>2021</b> , 9, 5505-5514		7
242	Synthesis of novel hierarchical CoNi@NC hollow microspheres with enhanced microwave absorption performance. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 8000-8016	2.1	4
241	Chain-like Fe <sub>3</sub> O <sub>4</sub> @void@mSiO <sub>2</sub> @MnO <sub>2</sub> composites with multiple porous shells toward highly effective microwave absorption application. <b>2021</b> , 314, 110867		23
240	Complex permittivity of epoxy composites with carbon nanotubes and TiO <sub>2</sub> in microwave range. <b>2021</b> , 717, 121-127		1
239	Microporous Co <sub>1-x</sub> Fe <sub>x</sub> @C nanoparticles: Strong wideband microwave absorbers for reflection loss less than -20 dB. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 856, 158175	5.7	0
238	Controllable fabrication of lightweight carbon with hierarchically hollow structure for enhanced microwave absorption. <b>2021</b> , 113, 108285		1
237	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
236	FeO/Bioactive glass nanostructure: A promising therapeutic platform for osteosarcoma treatment. <b>2020</b> ,		3
235	Highly stretchable and self-foaming polyurethane composite skeleton with thermally tunable microwave absorption properties. <b>2021</b> ,		4



234	MoS <sub>2</sub> Nanoflowers Decorated with Fe <sub>3</sub> O <sub>4</sub> /Graphite Nanosheets for Controllable Electromagnetic Wave Absorption. <b>2021</b> , 4, 3434-3443		8
233	Optimization of microwave absorption properties of C/NiP microfiber composites. <i>Ceramics International</i> , <b>2021</b> , 47, 7937-7945	5.1	1
232	MOF-derived Co/CoO particles prepared by low temperature reduction for microwave absorption. <i>Chemical Engineering Journal</i> , <b>2021</b> , 410, 128378	14.7	29
231	Ethylenediamine-assisted hydrothermal synthesis of NiCoO absorber with controlled morphology and excellent absorbing performance. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 588, 336-345	9.3	43
230	Study on the microwave absorbing properties of Fe nanoparticles prepared by the HEIBE method in expanded graphite matrix composites. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 860, 158434	5.7	2
229	Multi-phase heterostructures of flower-like Ni(NiO) decorated on two-dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /TiO <sub>2</sub> for high-performance microwave absorption properties. <i>Ceramics International</i> , <b>2021</b> , 47, 10764-10772	5.1	10
228	Synthesis of silver doped Fe <sub>3</sub> O <sub>4</sub> /C nanoparticles and its catalytic activities for the degradation and reduction of methylene blue and 4-nitrophenol. <b>2021</b> , 546, 149070		17
227	High-efficiency microwave absorption performance of cobalt ferrite microspheres/multi-walled carbon nanotube composites. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	0
226	Hollow microspheres of polypyrrole/magnetite/carbon nanotubes by spray-dry as an electromagnetic synergistic microwave absorber. <b>2021</b> , 175, 499-508		17
225	Enhanced microwave absorption properties of flake-shaped FeCo/BaFe <sub>12</sub> O <sub>19</sub> composites. <i>Ceramics International</i> , <b>2021</b> , 47, 12389-12396	5.1	6
224	A simple route to prepare Fe <sub>3</sub> O <sub>4</sub> @C microspheres as electromagnetic wave absorbing material. <b>2021</b> , 12, 1552-1563		6
223	Facile synthesis of nickel/carbon nanotubes hybrid derived from metal organic framework as a lightweight, strong and efficient microwave absorber. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 590, 561-570	9.3	24
222	A novel microwave induced oil release pattern of calcium alginate/ nano-Fe <sub>3</sub> O <sub>4</sub> composite capsules for asphalt self-healing. <b>2021</b> , 297, 126721		15
221	Gelatin-derived N-doped hybrid carbon nanospheres with an adjustable porous structure for enhanced electromagnetic wave absorption. <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	26
220	Solvothermal assisted synthesis of CoFe <sub>2</sub> O <sub>4</sub> /CNTs nanocomposite and their enhanced microwave absorbing properties. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 867, 159040	5.7	17
219	Protein-Derived Hybrid Carbon Nanospheres with Tunable Microwave Absorbing Performance in the X-Band. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 2685-2693	4	2
218	Defect-Enhanced Electromagnetic Wave Absorption Property of Hierarchical Graphite Capsules@Helical Carbon Nanotube Hybrid Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 28710-28720	9.5	10
217	Enhanced electromagnetic wave absorption performance of core-shell Fe <sub>3</sub> O <sub>4</sub> @poly(3,4-ethylenedioxythiophene) microspheres/reduced graphene oxide composite. <b>2021</b> , 178, 273-284		23

216	Microwave absorption and electromagnetic interference shielding properties of Li-Zn ferrite-carbon nanotubes composite. <b>2021</b> , 528, 167808		9
215	A sustainable strategy to fabricate porous flower-like magnetic carbon composites for enhanced microwave absorption. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 244101	2.5	4
214	Tailoring of N-doped graphite coated cobalt nanoparticles via arc discharge enables the high microwave absorption. <b>2021</b> , 177, 171-180		11
213	Enhanced Magnetic Microwave Absorption at Low-Frequency Band by Ferrite Assembled Microspheres with Controlled Components and Morphologies. <b>2021</b> , 2, 2100033		8
212	A facile synthesis of core-shell Fe <sub>3</sub> O <sub>4</sub> @C(N) composites and their microwave absorption properties. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 19020-19030	2.1	0
211	Synthesis of carbon-coated cobalt ferrite core-shell structure composite: A method for enhancing electromagnetic wave absorption properties by adjusting impedance matching. <b>2021</b> ,		0
210	Recent Advances in Design and Fabrication of Nanocomposites for Electromagnetic Wave Shielding and Absorbing. <i>Materials</i> , <b>2021</b> , 14,	3.5	8
209	Impedance engineered microwave absorption properties of Fe-Ni/C core-shell enabled rubber composites for X-band stealth applications. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 869, 159360	5.7	5
208	Facile synthesis of BTA@NiCoO hollow structure for excellent microwave absorption and anticorrosion performance. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 594, 604-620	9.3	7
207	Compositional and morphological design of hierarchical Co <sub>2</sub> Y@MnO <sub>2</sub> @CNTs core-shell microflowers for broadband microwave absorption application. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 869, 159270	5.7	3
206	Tuning the shell thickness of core-shell Fe <sub>2</sub> O <sub>3</sub> @SiO <sub>2</sub> nanoparticles to promote microwave absorption. <b>2021</b> , 33, 957-957		3
205	Electromagnetic interference shielding performance by thermally stable magnesium ferrite encapsulated polythiophene composite. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 19191-19202	2.1	2
204	Enhanced electromagnetic wave absorption property of binary ZnO/NiCo <sub>2</sub> O <sub>4</sub> composites. <b>2021</b> , 10, 832-842		15
203	Complex Permittivity and Permeability of Composite Materials Based on Carbonyl Iron Powder Over an Ultrawide Frequency Band. <b>2021</b> , 16,		0
202	Yolk-shell structured Co@SiO@Void@C nanocomposite with tunable cavity prepared by etching of SiO as high-efficiency microwave absorber. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 594, 342-351	9.3	13
201	Interfacial multi-reflection in barium ferrite nanosheets/ amorphous carbon nanotube composites for effective electromagnetic shielding applications. <b>2021</b> , 267, 124606		1
200	In-situ regrowth constructed magnetic coupling 1D/2D Fe assembly as broadband and high-efficient microwave absorber. <i>Chemical Engineering Journal</i> , <b>2021</b> , 415, 128951	14.7	15
199	. <b>2021</b> , 57, 1-19		5

198	Nanointerface engineering of cobalt sulfide/manganese sulfate hollow spheres for electromagnetic wave absorption. <b>2021</b> , 554, 149238		3
197	Enhanced electromagnetic wave absorption performance of SiCN(Fe) fibers by in-situ generated Fe <sub>3</sub> Si and CNTs. <i>Ceramics International</i> , <b>2021</b> , 47, 19582-19594	5.1	3
196	Ultrathin Self-Assembly MXene@flake Carbonyl Iron Composites with Efficient Microwave Absorption at Elevated Temperatures. 2100587		3
195	Microwave induced in-situ formation of SiC nanowires on SiCNO ceramic aerogels with excellent electromagnetic wave absorption performance. <b>2021</b> , 10, 1140		12
194	Electromagnetic shielding effectiveness of amorphous metallic spheroidal- and flake-based magnetodielectric composites. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 83, 256-263	9.1	6
193	In Situ Reduced Multi-Core Yolk-Shell Co@C Nanospheres for Broadband Microwave Absorption. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
192	A green deep eutectic solvent modified magnetic titanium dioxide nanoparticles for the solid-phase extraction of chymotrypsin. <b>2021</b> , 230, 122341		4
191	Boosted Interfacial Polarization from the Multidimensional Core-Shell-Flat Heterostructure CNP@PDA@GO/rGO for Enhanced Microwave Absorption. <b>2021</b> , 60, 12343-12352		1
190	Heterogeneous rod-like Ni@C composites toward strong and stable microwave absorption performance. <b>2021</b> , 181, 358-369		17
189	Constructing and optimizing hollow bird-nest-patterned C@Fe <sub>3</sub> O <sub>4</sub> composites as high-performance microwave absorbers. <b>2021</b> , 532, 167990		7
188	Enhanced dielectric polarization from disorder-engineered Fe <sub>3</sub> O <sub>4</sub> @black TiO <sub>2-x</sub> heterostructure for broadband microwave absorption. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 130020	14.7	20
187	Solvent-Free Synthesis of MnOx-FeOx/Biochar for Hg <sub>0</sub> and o-Xylene Removal from Flue Gas.		1
186	Facile synthesis of Ti <sub>3</sub> C <sub>2</sub> TX MXene composite with polyhedron Fe <sub>3</sub> O <sub>4</sub> / carbonyl iron toward microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 23762-23775	2.1	1
185	Microwave absorption of carbonization temperature-dependent uniform yolk-shell H-Fe <sub>3</sub> O <sub>4</sub> @C microspheres. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129875	14.7	23
184	Enhancing adsorption efficiencies of organic molecules through covalently bonded structures of magnetic carbon nanoparticles. <b>2021</b> , 105, 74-74		2
183	Dumbbell-Like FeO@N-Doped Carbon@2H/1T-MoS with Tailored Magnetic and Dielectric Loss for Efficient Microwave Absorbing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 47061-47071	9.5	11
182	Preparation and properties of polyimide/carbon nanotube composite films with electromagnetic wave absorption performance. <b>2021</b> , 61, 2691		0
181	A review of recent advancements in Ni-related materials used for microwave absorption. <b>2021</b> , 54, 473003		0

180	Tailoring Microwave Electromagnetic Responses in Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene with Fe <sub>3</sub> O <sub>4</sub> Nanoparticle Decoration via a Solvothermal Method. <b>2021</b> , 125, 19914-19924		5
179	Partially contacted Ni <sub>x</sub> S <sub>y</sub> @N, S-codoped carbon yolk-shelled structures for efficient microwave absorption. <b>2021</b> , 182, 276-286		8
178	Graphene-layer-coated boron carbide nanosheets with efficient electromagnetic wave absorption. <b>2021</b> , 560, 150027		6
177	Optimized impedance matching and enhanced microwave absorbing performance of porous flaky Fe <sub>4</sub> N wrapped with SiO <sub>2</sub> . <b>2021</b> , 536, 168119		1
176	Facile preparation of the dendritic Fe <sub>3</sub> O <sub>4</sub> with a core-shell microstructure in SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -CaO-Fe <sub>2</sub> O <sub>3</sub> glass-ceramic system for enhanced microwave absorbing performance. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 877, 160147	5.7	2
175	Preparation and characterization of branch-like heteroatoms-doped Ni@C nanofibers for high-performance microwave absorption with thin thickness. <b>2021</b> , 223, 109114		14
174	Oriented thermal etching of hollow carbon spheres with delicate heat management for efficient solar steam generation. <b>2021</b> , 178, 121579		3
173	Self-assembly sandwich-like Fe, Co, or Ni nanoparticles/reduced graphene oxide composites with excellent microwave absorption performance. <b>2021</b> , 562, 150212		14
172	The electromagnetic response of composition-regulated honeycomb structural materials used for broadband microwave absorption. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 88, 203-214	9.1	19
171	Intrinsic defect-rich porous carbon nanosheets synthesized from potassium citrate toward advanced supercapacitors and microwave absorption. <b>2021</b> , 183, 176-186		17
170	Wrinkled FeO@C magnetic composite microspheres: Regulation of magnetic content and their microwave absorbing performance. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 601, 397-410	9.3	13
169	Construction of excellent electromagnetic wave absorber from multi-heterostructure materials derived from ZnCo <sub>2</sub> O <sub>4</sub> and ZIF-67 composite. <b>2021</b> , 185, 514-525		4
168	Immobilization of hexamolybdate onto carbon-coated Fe <sub>3</sub> O <sub>4</sub> nanoparticle: A novel catalyst with high activity for oxidation of alcohols. <b>2021</b> , 953, 122043		2
167	Research advances in composition, structure and mechanisms of microwave absorbing materials. <b>2021</b> , 224, 109173		15
166	Enhanced uranium uptake from acidic media achieved on a novel iron phosphate adsorbent. <i>Chemical Engineering Journal</i> , <b>2021</b> , 423, 130267	14.7	4
165	Stretchable polyurethane composite foam triboelectric nanogenerator with tunable microwave absorption properties at elevated temperature. <b>2021</b> , 89, 106397		7
164	Magnetic core-shell structure in-situ encapsulated in bamboo-derived carbon skeleton for efficient microwave absorption. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 888, 161510	5.7	2
163	One pot synthesis and electromagnetic interference shielding behavior of reduced graphene oxide nanocomposites decorated with Ni <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 887, 161472	5.7	12

162	A novel MOF-driven self-decomposition strategy for CoO@N/C-Co/Ni-NiCo <sub>2</sub> O <sub>4</sub> multi-heterostructure composite as high-performance electromagnetic wave absorbing materials. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 131667	14.7	6
161	Evolution from core-shell, yolk-shell to hollow structure of hierarchical SiO <sub>2</sub> @MoSe <sub>2</sub> @FeNi <sub>3</sub> for enhanced electromagnetic wave absorption. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 884, 161020	5.7	3
160	Polymer-bubbling for one-step synthesis of three-dimensional cobalt/carbon foams against electromagnetic pollution. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 93, 7-16	9.1	11
159	Boron nitride nanosheets decorated N-doped carbon nanofibers as a wide-band and lightweight electromagnetic wave absorber. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 890, 161903	5.7	2
158	Interconnected magnetic carbon@NiCoFeO nanospheres with core-shell structure: An efficient and thin electromagnetic wave absorber. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 606, 526-536	9.3	18
157	Hydrothermal self-assembled Fe <sub>3</sub> O <sub>4</sub> /CA core-shell composites for broadband microwave absorption. <b>2022</b> , 541, 168511		3
156	Facile fabrication of indium tin oxide/nanoporous carbon composites with excellent low-frequency microwave absorption. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 889, 161636	5.7	2
155	Ultralight Coral-like hierarchical Fe/CNTs/Porous carbon composite derived from biomass with tunable microwave absorption performance. <b>2022</b> , 571, 151349		4
154	A Review on Metal-Organic Framework-Derived Porous Carbon-Based Novel Microwave Absorption Materials. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 56	19.5	68
153	Synthesis of the morphology-controlled porous Fe <sub>3</sub> O <sub>4</sub> nanorods with enhanced microwave absorption performance. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 3996-4005	2.1	4
152	Enhanced microwave absorption properties of novel hierarchical core-shell ZnMnO <sub>2</sub> composites. <b>2019</b> , 273, 192-198		20
151	Dual-Interfacial Polarization Enhancement to Design Tunable Microwave Absorption Nanofibers of SiC@C@PPy. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 1505-1513	4	18
150	Synthesis of Magnetic Wood with Excellent and Tunable Electromagnetic Wave-Absorbing Properties by a Facile Vacuum/Pressure Impregnation Method. <b>2018</b> , 6, 1000-1008		67
149	A comparative study on the dielectric response and microwave absorption performance of FeNi-capped carbon nanotubes and FeNi-cored carbon nanoparticles. <b>2020</b> , 32,		7
148	Method of Absorbing Material Formation Based on Magnetically Controlled Particles of Fe <sub>3</sub> O <sub>4</sub> . <b>2020</b> , 11, 1236-1243		5
147	Carbonyl iron/graphite microspheres with good impedance matching for ultra-broadband and highly efficient electromagnetic absorption. <b>2018</b> , 8, 3319		22
146	Dynamic Arrays Based on Magnetically Controlled Particles: Synthesis and Application. <b>2019</b> , 22,		1
145	Application of Flaky Reduced Iron Powders and Their Composites for Highly Effective Microwave Absorption Materials. <b>2021</b> , 16, 1175-1181		

144	Synthesis of Nonspherical Hollow Architecture with Magnetic Fe Core and Ni Decorated Tadpole-Like Shell as Ultrabroad Bandwidth Microwave Absorbers. <b>2021</b> , 17, e2103351		3
143	Synthesis of porous Fe <sub>3</sub> O <sub>4</sub> -SnO <sub>2</sub> core-void-shell nanocomposites as high-performance microwave absorbers. <b>2021</b> , 9, 106585		1
142	Immobilization of Polyoxometalate onto Modified Magnetic Nanoparticles: A New Catalyst for the Synthesis of Dihydropyranopyrazole Derivatives. <b>2021</b> , 6, 11039-11046		1
141	Hollow [email[protected]] <sub>2</sub> Nanospheres for Microwave Absorption. <b>2021</b> , 4, 11199-11209		3
140	N-Doped Carbon Fibers with Embedded ZnFe and Fe <sub>3</sub> C Nanoparticles for Microwave Absorption. <b>2021</b> , 4, 11070-11079		0
139	Heterointerface Engineering in Electromagnetic Absorbers: New Insights and Opportunities. <b>2021</b> , e2106195	43	
138	Data mining and design of electromagnetic properties of Co/FeSi filled coatings based on genetic algorithms optimized artificial neural networks (GA-ANN). <b>2021</b> , 226, 109383		1
137	Synthesis and Properties of Novel Rattle-Type Fe@Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> Nanochains. <b>2017</b> , 07, 735-744		
136	Yolk-shell Fe@Fe <sub>3</sub> O <sub>4</sub> @C nanoparticles with excellent reflection loss and wide bandwidth as electromagnetic wave absorbers in the high-frequency band. <b>2022</b> , 573, 151469		3
135	ZIF-67/GNs derived Co <sub>3</sub> O <sub>4</sub> /GNs multilayer flower and porous structure as an efficient electromagnetic wave absorbing material for excellent absorbing properties. <b>2022</b> , 575, 151789		1
134	Fabrication of BaFe <sub>12</sub> O <sub>19</sub> /CeO <sub>2</sub> composite for highly efficient microwave absorption. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 162964	5-7	1
133	Excellent microwave absorption of Fe <sub>3</sub> O <sub>4</sub> /Ag composites attained by synergy of considerable magnetic loss and dielectric loss. <i>Ceramics International</i> , <b>2021</b> , 48, 5824-5824	5-1	2
132	Electromagnetic Wave Absorption and Mechanical Properties of CNTs@GN@FeO/PU Multilayer Composite Foam. <i>Materials</i> , <b>2021</b> , 14,	3-5	1
131	Dimensional Design and Core-Shell Engineering of Nanomaterials for Electromagnetic Wave Absorption. <b>2021</b> , e2107538		37
130	Impedance amelioration of coaxial-electrospun TiO <sub>2</sub> @Fe/C@TiO <sub>2</sub> vesicular carbon microtubes with dielectric-magnetic synergy toward highly efficient microwave absorption. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133640	14-7	2
129	Lightweight and broadband 2D MoS <sub>2</sub> nanosheets/3D carbon nanofibers hybrid aerogel for high-efficiency microwave absorption. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 609, 33-42	9-3	2
128	Designed Fabrication of Lightweight SiC/Si <sub>3</sub> N <sub>4</sub> Aerogels for Enhanced Electromagnetic Wave Absorption and Thermal Insulation.		
127	Improved microwave absorption performance with negative permittivity of polyaniline in the Ku-band region. <b>2022</b> , 75, 187-198		0

126	Multifunctional antimony tin oxide/reduced graphene oxide aerogels with wideband microwave absorption and low infrared emissivity. <b>2022</b> , 231, 109565		7
125	Integrating hierarchical interfacial polarization in yeast-derived Mo <sub>2</sub> C/C nanoflower/microsphere nanoarchitecture for boosting microwave absorption performance. <b>2022</b> , 189, 530-538		1
124	Designed fabrication of lightweight SiC/Si <sub>3</sub> N <sub>4</sub> aerogels for enhanced electromagnetic wave absorption and thermal insulation. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 901, 163651	5:7	5
123	Enhanced Broadband Microwave Adsorption of Fe-Doped Core-Shell□Carbon Nanofibers in X and Ku Bands.		
122	Designed 3D heterostructure with 0D/1D/2D hierarchy for low-frequency microwave absorption in the S-band. <b>2022</b> , 10, 1470-1478		4
121	Enhanced Electromagnetic Wave Absorption by Bi-layered Nano-hollow Spheres. <b>2022</b> , 1-1		0
120	Tailoring conductive network Zn@NPC@MWCNTs nanocomposites derived from ZIF-8 as high-performance electromagnetic absorber for the whole X-Band. <b>2022</b> ,		
119	Excellent microwave absorbing performance of biomass-derived activated carbon decorated with in situ-grown CoFe <sub>2</sub> O <sub>4</sub> nanoparticles.		0
118	Constructing dendrite-flower-shaped Fe <sub>3</sub> O <sub>4</sub> crystals in glass-ceramic materials as novel broadband high-efficient electromagnetic wave absorbers. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 901, 163541	5:7	1
117	Cu/NC@Co/NC composites derived from core-shell Cu-MOF@Co-MOF and their electromagnetic wave absorption properties.. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 613, 182-193	9:3	11
116	Magnetic FeOX/biomass carbon composites with broadband microwave absorption properties. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 903, 163894	5:7	2
115	Design and synthesis of magnetic porous carbon nanofibers with excellent microwave absorption. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 903, 163971	5:7	4
114	Broadband high-performance microwave absorption of the single-layer Ti <sub>3</sub> C <sub>2</sub> T MXene. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 115, 148-155	9:1	5
113	Corrosion-Resistant Graphene-Based Magnetic Composite Foams for Efficient Electromagnetic Absorption.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9:5	5
112	Influence of impact on electromagnetic response of three-dimensional angle-interlock metacomposites. <b>2022</b> , 30, 101076		0
111	Carbon aerogel electrode for excellent dephosphorization via flow capacitive deionization. <b>2022</b> , 528, 115614		2
110	Heterogeneous network constructed by high aspect-ratio Kapok biomass microtube for lightweight and broadband microwave absorbent. <b>2022</b> , 191, 424-432		3
109	Novel Sibcn Fibers with Broad Band and Strong Electromagnetic Microwave Absorption Performance.		

108	Synthesis and Electromagnetic Properties of Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @C Core-Shell Nanoparticles. <b>2022</b> , 12, 209-218		
107	Metal-Organic Framework-Derived Core-Shell Nanospheres Anchored on Fe-Filled Carbon Nanotube Sponge for Strong Wideband Microwave Absorption.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	3
106	Transparent organogel based on photopolymerizable magnetic cationic monomer for electromagnetic wave absorbing. <b>2022</b> ,		0
105	Architecture Design and Interface Engineering of Self-assembly VS/rGO Heterostructures for Ultrathin Absorbent.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 67	19.5	2
104	Reduced graphene oxide containing barium hexaferrite composites for high frequency microwave absorption. <b>2022</b> , 45, 1		1
103	Recent Advances in Design Strategies and Multifunctionality of Flexible Electromagnetic Interference Shielding Materials.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 80	19.5	10
102	Excellent Microwave Absorbing Properties of Nd <sup>3+</sup> -Doped Ni <sub>2</sub> N Ferrite/PANI Nanocomposite for Ku Band. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2100505	1.6	0
101	Fe <sub>3</sub> O <sub>4</sub> nanoparticles decorated flexible carbon foam for efficient electromagnetic interference shielding. <i>Ceramics International</i> , <b>2022</b> ,	5.1	1
100	Design and synthesis of core-shell structure 3D-graphene/Fe <sub>3</sub> O <sub>4</sub> @N-C composite derived from Fe-MOF as lightweight microwave absorber. <b>2022</b> , 124, 108941		0
99	CeO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Nanostructures for Microwave Absorption.		3
98	Electromagnetic absorption materials: Current progress and new frontiers. <b>2022</b> , 127, 100946		21
97	Ni/NiO/SiO <sub>2</sub> /C nanofibers with strong wideband microwave absorption and robust hydrophobicity. <b>2022</b> , 588, 152964		1
96	Double shell structured MnFe <sub>2</sub> O <sub>4</sub> @FeO/C derived from MnFe <sub>2</sub> O <sub>4</sub> @ZIF-8 for electromagnetic wave absorption. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 906, 164197	5.7	0
95	Tailoring electromagnetic responses of delaminated Mo <sub>2</sub> TiC <sub>2</sub> T MXene through the decoration of Ni particles of different morphologies. <i>Chemical Engineering Journal</i> , <b>2022</b> , 440, 135855	14.7	5
94	Graphene oxide supported Yolk-Shell ZnS/NiS with the adjustable air layer for high performance of electromagnetic wave absorber.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 617, 620-632	9.3	1
93	Synergistic effect of niobium oxide and cobalt on electromagnetic properties of dodecahedron-carbon composites. <b>2022</b> , 311, 123122		
92	Fe <sub>3</sub> O <sub>4</sub> @Ag and Ag@Fe <sub>3</sub> O <sub>4</sub> Core-Shell Nanoparticles for Radiofrequency Shielding and Bactericidal Activity. <b>2022</b> , 5, 237-248		1
91	High-efficient electromagnetic absorption and composites of carbon microspheres. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 230902	2.5	2



90	Microporous Carbons Derived from d-Fructose Carbon with Excellent Microwave Absorption Performance. <i>ACS Applied Electronic Materials</i> ,	4	1
89	Customizing Heterointerfaces in Multilevel Hollow Architecture Constructed by Magnetic Spindle Arrays Using the Polymerizing-Etching Strategy for Boosting Microwave Absorption.. <i>Advanced Science</i> , <b>2022</b> , e2200804	13.6	5
88	Simultaneous Achievement of High-Yield Hydrogen and High-Performance Microwave Absorption Materials from Microwave Catalytic Deconstruction of Plastic Waste. <i>Processes</i> , <b>2022</b> , 10, 782	2.9	0
87	Controllable Synthesis of MoC Encapsulated by N-Doped Carbon Microspheres to Achieve Highly Efficient Microwave Absorption at Full Wavebands: From Lemon-like to Fig-like Morphologies.. <i>Inorganic Chemistry</i> , <b>2022</b> ,	5.1	0
86	Size-Dependent Oxidation-Induced Phase Engineering for MOFs Derivatives Via Spatial Confinement Strategy Toward Enhanced Microwave Absorption.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 102	19.5	9
85	Resource utilization of coal hydrogasification residue to Ni/carbon-based composites for efficient microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> ,	2.1	0
84	Pd-containing magnetic periodic mesoporous organosilica nanocomposite as an efficient and highly recoverable catalyst.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7970	4.9	2
83	Introducing MWCNTs conductive network in polymer-derived SiCN ceramics for broadband electromagnetic wave absorption. <i>Ceramics International</i> , <b>2022</b> ,	5.1	3
82	Role of phase, grain morphology and impedance properties in tailoring of Barium Strontium hexaferrites for microwave absorber/attenuator applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2022</b> , 281, 115679	3.1	0
81	Mesoscopically ordered Fe <sub>3</sub> O <sub>4</sub> /C nano-composite for superior broadband electromagnetic wave absorption. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2022</b> , 158, 106983	8.4	0
80	Construction of Co@C nanocapsules by one-step carbon reduction of single-crystal Co <sub>3</sub> O <sub>4</sub> nanoparticles: Ultra-wideband microwave absorber verified via coaxial and arch methods. <i>Chemical Engineering Journal</i> , <b>2022</b> , 445, 136863	14.7	0
79	Ternary MXene/MnO <sub>2</sub> /Ni composites for excellent electromagnetic absorption with tunable effective absorption bandwidth. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 911, 165122	5.7	1
78	Magnetic Carbon Composites Derived from Coal Hydrogasification Residue for Microwave Absorption. <i>Physica Status Solidi (A) Applications and Materials Science</i> ,	1.6	
77	Ultralight Open-Cell Graphene Aerogels with Multiple, Gradient Microstructures for Efficient Microwave Absorption. <i>Nanomaterials</i> , <b>2022</b> , 12, 1896	5.4	1
76	Metal-coordination-driven self-assembly synthesis of porous iron/carbon composite for high-efficiency electromagnetic wave absorption. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 623, 1002-1014	9.3	1
75	Microstructure, Electromagnetic Properties, and Microwave Absorption Mechanism of SiO <sub>2</sub> -MnO-Al <sub>2</sub> O <sub>3</sub> Based Manganese Ore Powder for Electromagnetic Protection. <i>Molecules</i> , <b>2022</b> , 27, 3758	4.8	0
74	Tunable shell thickness of Fe-N@SiO <sub>2</sub> nanoparticles for strong and stable microwave absorption properties with enhanced oxidation resistance. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 166015	5.7	0
73	Absorption-dominated electromagnetic shielding and excellent thermal conduction properties of poly(vinylidene fluoride)/SnBi <sub>58</sub> /Co-C composites with layered structure. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165998	5.7	

72	Microwave absorption performance of core-shell rGO/Ni <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> @PEDOT composite: An effective approach to reduce electromagnetic wave pollution. <i>Advanced Engineering Materials</i> ,	3.5	0
71	Multi-spectrum bands compatibility: New trends in stealth materials research. <i>Science China Materials</i> ,	7.1	0
70	Preparation of functionalized magnetic graphene oxide/lignin composite nanoparticles for adsorption of heavy metal ions and reuse as electromagnetic wave absorbers. <i>Separation and Purification Technology</i> , <b>2022</b> , 297, 121509	8.3	1
69	Synthesis of tetragonal copper-nickel ferrite decorated nitrogen-doped reduced graphene oxide composite as a thin and high-efficiency electromagnetic wave absorber. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 648, 129411	5.1	0
68	Iron/silicon carbide composites with tunable high-frequency magnetic and dielectric properties for potential electromagnetic wave absorption. <i>Advanced Composites and Hybrid Materials</i> ,	8.7	5
67	Ceramic-based electromagnetic wave absorbing materials and concepts towards lightweight, flexibility and thermal resistance. <i>International Materials Reviews</i> , 1-34	16.1	1
66	Large-scale synthesis of fluorine-free carbonyl iron-organic silicon hydrophobic absorbers with long term corrosion protection property. <i>Nano Research</i> ,	10	0
65	Directional Migration and Distribution of Magnetic Microparticles in Polypropylene-Matrix Magnetic Composites Molded by an Injection Molding Assisted by External Magnetic Field. <i>Materials</i> , <b>2022</b> , 15, 4632	3.5	
64	Facile construction of three-dimensional porous netlike reduced graphene oxide/zinc oxide composite aerogels as the lightweight, flame retardant, compression resilience and high-performance electromagnetic wave absorbers. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2022</b> , 160, 107068	8.4	0
63	Excellent microwave absorption of lightweight PAN-based carbon nanofibers prepared by electrospinning. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 651, 129670	5.1	0
62	Rational construction of yolk-shell structured Co <sub>3</sub> Fe <sub>7</sub> /FeO@carbon composite and optimization of its microwave absorption. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 626, 775-786	9.3	0
61	Tunable and enhanced microwave absorption properties by adjusting the distribution of Co/CoFe embedded into the carbon nanohorns and graphene microspheres. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 922, 166201	5.7	0
60	Metal-organic framework-derived carbon-based composites for electromagnetic wave absorption: Dimension design and morphology regulation. <i>Journal of Materials Science and Technology</i> , <b>2023</b> , 132, 223-251	9.1	1
59	Effect of Multilayered Structure on the Static and Dynamic Properties of Magnetic Nanospheres. <b>2022</b> , 14, 35177-35183		
58	Advances in core-shell engineering of carbon-based composites for electromagnetic wave absorption.		5
57	Magnetic-Field-Induced Vapor-Phase Polymerization to Achieve PEDOT-Decorated Porous Fe <sub>3</sub> O <sub>4</sub> Particles as Excellent Microwave Absorbers.		1
56	Synthesis and Microwave Absorption Properties of Fe <sub>3</sub> O <sub>4</sub> /CuS Composites. 2200189		
55	Exploitation of dielectric properties of ferrite composites for microwave absorber applications: complex permittivity, real-imaginary impedance, geometrical thickness, and reflection loss parameters. <b>2022</b> , 128,		

- 54 Mechanochemical synthesis of core-shell carbon black@acrylic resin nanocomposites with enhanced microwave absorption. **2022**, 228, 109665 ○
- 53 Electrical and shielding properties of epoxy composites with Ni $\square$  and Co $\square$  core-shell nanoparticles. **2022**, 144, 115463
- 52 Construction of plate-like magnetic heterostructure for synergistic microwave absorption. ○
- 51 Interface coupling induced microwave absorption enhancement in the C/Fe $\text{3O}_4$ /halloysite micro-spheres composites. **2022**, 229, 106690 1
- 50 Magnetic CoNi nanoparticles-decoated Ti $\text{3C}_2\text{T}_x$  MXene as excellent electromagnetic wave absorber. **2022**, 286, 116026 1
- 49 Microwave absorption performance of porous carbon particles modified by nickel with different morphologies. **2023**, 137, 79-90 ○
- 48 Study on the Structure, Magnetic Properties and Microwave Absorbing Properties of Rare Earth Doped Cobalt Ferrite: The Influence Mechanism of Different Substitution Positions. ○
- 47 Large Interlayers Spacing and Active Basal Planes Enabled Mos $\text{2}$ /Mwcnt Composites for High-Performance Microwave Absorption. ○
- 46 High-performance electromagnetic wave absorption in cobalt sulfide flower-like nanospheres. **2022**, 12, 25323-25331 ○
- 45 Construction of Ni@polypyrrole nanochains/Ti $\text{3C}_2\text{T}_x$  ternary composites with excellent microwave absorption properties. ○
- 44 Nanostructured MnFe $\text{2O}_4$  anchored on graphene oxide and reduced graphene oxide sheets for effective regulation of microwave absorption performance. **2022**, 410, 117895 ○
- 43 A rapid and sensitive method to detection of Cr $\text{3+}$  by using the Fe $\text{3O}_4$ @Pectin-polymethacrylimide@graphene quantum dot as a sensitive material. ○
- 42 CoreShell Fe $\text{3O}_4$ @C Conductive Additives for Magnetic Flow-Electrode Capacitive Deionization: Reconstruction of Charge Percolation Networks. ○
- 41 Microwave absorption performance and multiple loss mechanisms of three-dimensional porous Fe $\text{4N}$ @Fe $\text{3O}_4$ @Fe/carbon composite. **2022**, 57, 16649-16664 ○
- 40 Excellent microwave absorption performance of PAN-based Fe/C nanofibers with low loading fillers. **2022**, 655, 130280 ○
- 39 Polyimide-derived porous carbon/Co particle-based composites for high-performance microwave absorption. **2022**, 12, 29070-29077 1
- 38 Synthesis of C/NiFe-LDH composites for enhanced electromagnetic wave absorption. ○
- 37 Synthesis and electromagnetic wave absorption properties of Gd-Co ferrite@carbon coreShell structure composites. ○

- 36 Core-shell-like nanocrystalline FeSiB/amorphous carbon composite powder with remarkable and tunable microwave absorption properties. **2022**, 107295 ○
- 35 Enhanced broadband microwave absorption of Fe/C core-shell nanofibers in X and Ku bands. **2022**, ○
- 34 Evolution of hollow dodecahedron carbon coated FeCo with enhance of electromagnetic properties. **2022**, 33, 103854 ○
- 33 Natural magnetite/coke composite: A novel promising microwave absorption material. **2023**, 931, 167497 ○
- 32 Morphology modulation induced enhancement of microwave absorption performance in Fe<sub>20</sub>Ni<sub>80</sub> particles. **2023**, 933, 167741 ○
- 31 A Sustainable and Low-Cost Route to Design NiFe<sub>2</sub>O<sub>4</sub> Nanoparticles/Biomass-Based Carbon Fibers with Broadband Microwave Absorption. **2022**, 12, 4063 ○
- 30 Core-shell nanowires comprising silver@polypyrrole-derived pyrolytic carbon for high-efficiency microwave absorption. ○
- 29 Hydrothermal synthesis of flake-like cobalt oxide nanoparticles for electromagnetic waves absorption at X-band (8.2–12.4 GHz) frequency. **2023**, 287, 116132 ○
- 28 Cognizing the electromagnetic shielding performance of ultrafine magnetite (Fe<sub>3</sub>O<sub>4</sub>) and a few layers of carbon black nanocomposite in the X-band region. **2023**, 288, 116166 1
- 27 Excellent microwave absorbing properties of Fe/MnO@C composites with three carbon skeleton structures. **2023**, 293, 117270 ○
- 26 Facile synthesis of FeCo/MnO<sub>2</sub> core-shell nanoparticles as high-frequency microwave absorbers using a two-step method. **2023**, 613, 155976 ○
- 25 Fabrication and Characterization of Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>-rGO Nanocomposite: A Catalyst for Multi-Component Reaction. ○
- 24 Super simple and green synthesis of bifunctional iron oxide anchored on graphene oxide-like carbon composite. **2022**, 118414 ○
- 23 Enhanced Electromagnetic Wave Absorption of SiOC/Porous Carbon Composites. **2022**, 15, 8864 ○
- 22 Flexible high-performance microcapacitors enabled by all-printed two-dimensional nanosheets. **2022**, ○
- 21 Fe/Fe<sub>3</sub>O<sub>4</sub>@mSiO<sub>2</sub> Core-shell Nanostructures for Broad-Band Microwave Absorption. ○
- 20 Agminated hollow urchin-like structure of MnO<sub>2</sub>/graphite nanosheets composites for improving electromagnetic absorbing properties. **2023**, 34, ○
- 19 Hollow multi-shelled structured BaTiO<sub>3</sub>/Fe<sub>3</sub>O<sub>4</sub> composite: Confined space and interface effect with boosted microwave absorption. **2023**, ○

- 18 Recycling and utilization of coal gasification residues for fabricating Fe/C composites as novel microwave absorbents. **2023**, 30, 591-599 ○
- 17 Composites of In/C hexagonal nanorods and graphene nanosheets for high-performance electromagnetic wave absorption. **2023**, 30, 485-493 ○
- 16 Honeycomb-like structured ZnFe<sub>2</sub>O<sub>4</sub>@C derived from ZnFe<sub>2</sub>O<sub>4</sub>@ZIF-8 for electromagnetic wave absorption. **2023**, 568, 170253 ○
- 15 Enhanced microwave absorption properties of Ni decorated flaky graphite powders with frequency selective surfaces incorporation. **2023**, 293, 117255 ○
- 14 Regulation binary electromagnetic filler networks in segregated poly(vinylidene fluoride) composite for absorption-dominated electromagnetic interference shielding. ○
- 13 Dual-pathway optimization on microwave absorption characteristics of core-shell Fe<sub>3</sub>O<sub>4</sub>@C microcapsules: Composition regulation on magnetic core and MoS<sub>2</sub> nanosheets growth on carbon shell. **2023**, 461, 141867 ○
- 12 Microwave absorption theory and recent advances in microwave absorbers by polymer-based nanocomposites (carbons, oxides, sulfides, metals, and alloys). **2023**, 149, 110407 ○
- 11 Tuning the magnetic and dielectric properties of Fe<sub>3</sub>O<sub>4</sub> nanoparticles for EMI shielding applications by do. **2023**, 34, 105454 ○
- 10 MgFeAl-layered double oxides supported on hollow carbon microsphere composited with carbonitride for peroxy monosulfate activation to efficiently decontaminate organic pollutants under high salinity conditions. **2023**, 617, 156616 ○
- 9 Multiprincipal Element M<sub>2</sub>FeC (M = Ti, V, Nb, Ta, Zr) MAX Phases with Synergistic Effect of Dielectric and Magnetic Loss. **2023**, 10, ○
- 8 Confined Diffusion Strategy for Customizing Magnetic Coupling Spaces to Enhance Low-frequency Electromagnetic Wave Absorption. **2023**, 33, ○
- 7 Designed synthesis of multifunctional lignin-based adsorbent for efficient heavy metal ions removal and electromagnetic wave absorption. **2023**, 234, 123668 ○
- 6 Electrical and Shielding Properties of Epoxy Composites with Combined Fillers (SiO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub>)/CNT and (SiO<sub>2</sub>-Fe<sub>3</sub>O<sub>4</sub>)/CNT. **2023**, 30, 635-651 ○
- 5 A finite oxidation strategy for customizing heterogeneous interfaces to enhance magnetic loss ability and microwave absorption of Fe-cored carbon microcapsules. 1
- 4 Multifunctional three-dimensional porous MOFs derived Fe/C/carbon foam for microwave absorption, thermal insulation and infrared stealth. **2023**, 49, 18861-18869 ○
- 3 Co<sub>3</sub>O<sub>4</sub> Nanoparticle-Modified Porous Carbons with High Microwave Absorption Performances. **2023**, 13, 1073 ○
- 2 Elaborately designed 3D honeycomb Mn<sub>3</sub>C<sub>2</sub>Tx@MoS<sub>2</sub>@C heterostructures as advanced microwave absorbers. **2023**, 625, 157116 ○
- 1 Optimized impedance matching and enhanced attenuation by heteroatoms doping of yolk-shell CoFe<sub>2</sub>O<sub>4</sub>@HCN as highly efficient microwave absorbers. **2023**, ○

