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Ultrathin graphene: electrical properties and highly efficient electromagnetic interference shielding

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#	Paper	IF	Citations
505	Tailor-Made Distribution of Nanoparticles in Blend Structure toward Outstanding Electromagnetic Interference Shielding. <b>2015</b> , 7, 25448-63		72
504	Preparation and microwave absorption properties of uniform TiO <sub>2</sub> @C core-shell nanocrystals. <b>2015</b> , 5, 77443-77448		35
503	Uniform Fe <sub>3</sub> O <sub>4</sub> coating on flower-like ZnO nanostructures by atomic layer deposition for electromagnetic wave absorption. <b>2015</b> , 44, 18804-9		46
502	Mechanical and electromagnetic shielding properties of carbon fiber reinforced silicon carbide matrix composites. <b>2015</b> , 95, 10-19		148
501	Sulfur-doped graphene laminates for EMI shielding applications. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 9802-9810	7.1	91
500	Temperature dependent microwave absorption of ultrathin graphene composites. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10017-10022	7.1	358
499	Excellent electromagnetic wave absorption property of quaternary composites consisting of reduced graphene oxide, polyaniline and FeNi <sub>3</sub> @SiO <sub>2</sub> nanoparticles. <b>2015</b> , 357, 908-914		47
498	Nano-Inclusions Applied in Cement-Matrix Composites: A Review. <b>2016</b> , 9,		49
497	Preparation and the electromagnetic interference shielding in the X-band of carbon foams with Ni-Zn ferrite additive. <b>2016</b> , 36, 3939-3946		29
496	Development of Novel Graphene/g-C <sub>3</sub> N <sub>4</sub> Composite with Broad-Frequency and Light-Weight Features. <b>2016</b> , 33, 656-663		53
495	Microwave Absorption of SiC/HfC <sub>x</sub> N <sub>1-x</sub> /C Ceramic Nanocomposites with HfC <sub>x</sub> N <sub>1-x</sub> -Carbon Core-Shell Particles. <b>2016</b> , 99, 2655-2663		44
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493	X-band frequency response and electromagnetic interference shielding in multiferroic BiFeO <sub>3</sub> nanomaterials. <b>2016</b> , 109, 142904		18
492	Experimental and computational study of shielding effectiveness of polycarbonate carbon nanocomposites. <b>2016</b> , 120, 145103		18
491	Open-cell phenolic carbon foam and electromagnetic interference shielding properties. <b>2016</b> , 104, 90-105		77
490	Enhanced dielectric breakdown strength and energy storage density in lead-free relaxor ferroelectric ceramics prepared using transition liquid phase sintering. <b>2016</b> , 6, 34381-34389		99
489	Layer-structured silver nanowire/polyaniline composite film as a high performance X-band EMI shielding material. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 4193-4203	7.1	96

488	Enhanced Microwave Absorption Properties of CeO <sub>2</sub> Nanoparticles Supported on Reduced Graphene Oxide. <b>2016</b> , 11, 1650058	24
487	Hierarchical graphene/SiC nanowire networks in polymer-derived ceramics with enhanced electromagnetic wave absorbing capability. <b>2016</b> , 36, 2695-2703	166
486	Synthesis, Characterization, and Microwave Absorption Properties of Reduced Graphene Oxide/Strontium Ferrite/Polyaniline Nanocomposites. <b>2016</b> , 11, 141	152
485	Lightweight flexible polyurethane/reduced ultralarge graphene oxide composite foams for electromagnetic interference shielding. <b>2016</b> , 6, 27517-27527	53
484	Unique nanotubes from polynorbornene derived graphene sheets. <b>2016</b> , 6, 40691-40697	5
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482	Interfacial interactions and synergistic effect of CoNi nanocrystals and nitrogen-doped graphene in a composite microwave absorber. <b>2016</b> , 104, 214-225	275
481	Facile preparation of lightweight high-strength biodegradable polymer/multi-walled carbon nanotubes nanocomposite foams for electromagnetic interference shielding. <b>2016</b> , 105, 305-313	277
480	Electromagnetic interference shielding effectiveness of carbon foam containing in situ grown silicon carbide nanowires. <b>2016</b> , 42, 11330-11340	48
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478	Effect of electrophoretic condition on the electromagnetic interference shielding performance of reduced graphene oxide-carbon fiber/epoxy resin composites. <b>2016</b> , 105, 167-175	71
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468	Graphene nanosheets/E-glass/epoxy composites with enhanced mechanical and electromagnetic performance. <b>2016</b> , 6, 80424-80430		22
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462	Ultrasonic-assisted sol-gel synthesis of rugby-shaped SrFe <sub>2</sub> O <sub>4</sub> /reduced graphene oxide hybrid as versatile visible light photocatalyst. <b>2016</b> , 69, 156-162		9
461	Synthesis and Excellent Microwave Absorption Properties of ZnO/Fe <sub>3</sub> O <sub>4</sub> /MWCNTs Composites. <b>2016</b> , 11, 1650139		16
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458	Electromagnetic wave absorbing properties of SiC/SiO <sub>2</sub> composites with ordered inter-filled structure. <b>2016</b> , 680, 604-611		31
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453	3D network porous polymeric composites with outstanding electromagnetic interference shielding. <b>2016</b> , 125, 22-29		93

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450	Ultrathin carbon foams for effective electromagnetic interference shielding. <b>2016</b> , 100, 375-385		138
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435	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

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432	Hybrid nanocomposites of thermoplastic elastomer and carbon nanoadditives for electromagnetic shielding. <b>2017</b> , 88, 328-339	47
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4 <sup>16</sup>	Pigeon-Excreta-Mediated Synthesis of Reduced Graphene Oxide (rGO)/CuFe <sub>2</sub> O <sub>4</sub> Nanocomposite and Its Catalytic Activity toward Sensitive and Selective Hydrogen Peroxide Detection. <b>2017</b> , 5, 4897-4905	46
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4 <sup>14</sup>	Coupling behaviors of graphene/SiO <sub>2</sub> /Si structure with external electric field. <b>2017</b> , 7, 025113	3
4 <sup>13</sup>	Facile Synthesis and Hierarchical Assembly of Flowerlike NiO Structures with Enhanced Dielectric and Microwave Absorption Properties. <b>2017</b> , 9, 16404-16416	236
4 <sup>12</sup>	Manipulating microstructures and electrical properties of carbon fiber/reduced graphene oxide/nickel composite textiles with electrochemical deposition techniques. <b>2017</b> , 123, 1	0
4 <sup>11</sup>	Unique Multilayered Assembly Consisting of Flower-Like Ferrite Nanoclusters Conjugated with MWCNT as Millimeter Wave Absorbers. <b>2017</b> , 121, 13998-14009	42
4 <sup>10</sup>	Advanced Nanostructured Materials in Electromagnetic Interference Shielding. <b>2017</b> , 241-320	10
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4 <sup>07</sup>	Synthesis and electromagnetic wave absorption properties of matrimony vine-like iron oxide/reduced graphene oxide prepared by a facile method. <b>2017</b> , 719, 296-307	43
4 <sup>06</sup>	Nitrogen-doped graphene and titanium carbide nanosheet synergistically reinforced epoxy composites as high-performance microwave absorbers. <b>2017</b> , 7, 27755-27761	60
4 <sup>05</sup>	Fabrication and enhanced electromagnetic wave absorption properties of sandwich-like graphene@NiO@PANI decorated with Ag particles. <b>2017</b> , 229, 82-88	23
4 <sup>04</sup>	Flexible, Ultrathin, and High-Efficiency Electromagnetic Shielding Properties of Poly(Vinylidene Fluoride)/Carbon Composite Films. <b>2017</b> , 9, 20873-20884	185
4 <sup>03</sup>	Stiff, Thermally Stable and Highly Anisotropic Wood-Derived Carbon Composite Monoliths for Electromagnetic Interference Shielding. <b>2017</b> , 9, 21371-21381	94
4 <sup>02</sup>	Fabrication and microwave absorption of multiwalled carbon nanotubes anchored with CoS nanoplates. <b>2017</b> , 28, 7622-7632	19
4 <sup>01</sup>	Graphene nanoplatelets/carbon nanotubes/polyurethane composites as efficient shield against electromagnetic polluting radiations. <b>2017</b> , 120, 118-127	129
4 <sup>00</sup>	Synthesis of Hierarchical ZnFeO@SiO <sub>2</sub> @RGO Core-Shell Microspheres for Enhanced Electromagnetic Wave Absorption. <b>2017</b> , 9, 14103-14111	135
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387	A Novel Polyaniline-Coated Bagasse Fiber Composite with Core-Shell Heterostructure Provides Effective Electromagnetic Shielding Performance. <b>2017</b> , 9, 809-818		137
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383	Preparation of silver/reduced graphene oxide coated polyester fabric for electromagnetic interference shielding. <b>2017</b> , 7, 40452-40461		38
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345	Preparation of flower-like CoFe <sub>2</sub> O <sub>4</sub> @graphene composites and their microwave absorbing properties. <b>2018</b> , 223, 186-189	69

344	Electromagnetic interference shielding performance of nano-layered Ti <sub>3</sub> SiC <sub>2</sub> ceramics at high-temperatures. <b>2018</b> , 8, 015027		12
343	A facile fabrication and highly tunable microwave absorption of 3D flower-like Co <sub>3</sub> O <sub>4</sub> -rGO hybrid-architectures. <b>2018</b> , 339, 487-498		311
342	Thermal-air ageing treatment on mechanical, electrical, and electromagnetic interference shielding properties of lightweight carbon nanotube based polymer nanocomposites. <b>2018</b> , 107, 447-460		69
341	Ultrafast Self-Healable Interfaces in Polyurethane Nanocomposites Designed Using Diels-Alder "Click" as an Efficient Microwave Absorber. <b>2018</b> , 3, 1137-1146		36
340	Constructing Large Interconnect Conductive Networks: An Effective Approach for Excellent Electromagnetic Wave Absorption at Gigahertz. <b>2018</b> , 57, 2155-2164		19
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330	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. <b>2018</b> , 511, 307-317		82
329	Dielectric and dye adsorption properties of luminescent-superparamagnetic MFe <sub>2</sub> O <sub>4</sub> (M = Mn, Mg)/reduced graphene oxide composites. <b>2018</b> , 44, 3904-3914		12
328	Generation of graphene-based aerogel microspheres for broadband and tunable high-performance microwave absorption by electrospinning-freeze drying process. <b>2018</b> , 11, 2847-2861		79
327	A review on manifold synthetic and reprocessing methods of 3D porous graphene-based architecture for Li-ion anode. <b>2018</b> , 335, 954-969		49

326	. <b>2018</b> ,	18
325	Composite materials based on nanostructured shungite filler. <b>2018</b> , 5, 25971-25975	7
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322	Electrical Characterization of Shielding Materials. <b>2018</b> , 89-108	0
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241	Carbon Nanotubes and Their Assemblies: Applications in Electromagnetic Interference Shielding. <b>2019</b> , 335-357		2
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170	Highly flexible and ultrathin Mo <sub>2</sub> C film via in-situ growth on graphene oxide for electromagnetic shielding application. <b>2020</b> , 163, 254-264	16
169	Influence of the Perovskite La <sub>0.8</sub> Sr <sub>0.2</sub> Mn <sub>0.5</sub> Co <sub>0.5</sub> O <sub>3-<math>\delta</math></sub> on the Electrochemical Performance of the Graphene-Based Supercapacitor. <b>2020</b> , 13, 3030	3
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165	The optimization of nanocomposite coating with polyaniline coated carbon nanotubes on fabrics for exceptional electromagnetic interference shielding. <b>2020</b> , 104, 107757	18

164	Superhigh Electromagnetic Interference Shielding of Ultrathin Aligned Pristine Graphene Nanosheets Film. <b>2020</b> , 32, e1907411		140
163	Light-weight and highly flexible TaC modified PyC fiber fabrics derived from cotton fiber textile with excellent electromagnetic shielding effectiveness. <b>2020</b> , 387, 124085		17
162	Structurally designed hierarchical carbon nanotubes vertically anchored on elliptical-like carbon nanosheets with enhanced conduction loss as high-performance electromagnetic wave absorbent. <b>2020</b> , 261, 116301		5
161	Silver nanowires intercalating Ti3C2Tx MXene composite films with excellent flexibility for electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 3120-3126	7.1	42
160	Three-dimensional foam-like Fe3O4@C core-shell nanocomposites: Controllable synthesis and wideband electromagnetic wave absorption properties. <b>2020</b> , 502, 166518		29
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158	Effect of conducting fillers in natural rubber nanocomposites as effective EMI shielding materials. <b>2020</b> , 25, 274-277		5
157	Dielectric properties and electromagnetic interference shielding effectiveness of Al2O3-based composites filled with FeSiAl and flaky graphite. <b>2020</b> , 829, 154556		9
156	Multifunctional magneto-polymer matrix composites for electromagnetic interference suppression, sensors and actuators. <b>2021</b> , 115, 100705		26
155	Core-shell, wire-in-tube and nanotube structures: Carbon-based materials by molecular layer deposition for efficient microwave absorption. <b>2021</b> , 173, 145-153		15
154	Microwave absorption properties of polymer-derived SiCN(CNTs) composite ceramics. <b>2021</b> , 47, 1294-1302		15
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151	Mechanically strong, thermally conductive and flexible graphene composite paper for exceptional electromagnetic interference shielding. <b>2021</b> , 263, 114893		7
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147	Recent progress in morphological engineering of carbon materials for electromagnetic interference shielding. <b>2021</b> , 172, 569-596		38

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144	Two-dimensional MXene-based flexible nanostructures for functional nanodevices: a review. <b>2021</b> , 9, 3231-3269		39
143	Intense nonlinear dielectric and magnetic resonances of core-shell Ni@graphene composites and their improved microwave absorption properties. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 4910-4920	7.1	5
142	CNT@NiO/natural rubber with excellent impedance matching and low interfacial thermal resistance toward flexible and heat-conducting microwave absorption applications. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 869-880	7.1	17
141	Advances in electromagnetic shielding properties of composite foams. <b>2021</b> , 9, 8896-8949		34
140	Electromagnetic interference shielding effectiveness of polymer nanocomposites. <b>2021</b> , 211-236		
139	Tunable EMW absorption properties of a novel SiC/BiO <sub>2</sub> /3Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> composite ceramic. <b>2021</b> , 47, 5515-5522		1
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137	Sustainable Double-Network Structural Materials for Electromagnetic Shielding. <b>2021</b> , 21, 2532-2537		23
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135	In-situ reduction of silver by surface DBD plasma: a novel method for preparing highly effective electromagnetic interference shielding Ag/PET. <b>2021</b> , 23, 035502		1
134	Preparation and characterization of an effective microwave absorbent: RGO-MoS <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> nanocomposite. <b>2021</b> , 32, 9640-9649		2
133	Recent Advances in Terahertz Photonic Technologies Based on Graphene and Their Applications. <b>2021</b> , 2, 2000168		4
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129	M-Type Barium Hexaferrite-Based Nanocomposites for EMI Shielding Application: a Review. <b>2021</b> , 34, 1019-1045		10



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127	High performance X-band electromagnetic shields based on methyl-orange assisted polyaniline-silver core-shell nanocomposites. 1-10	4
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123	Coherency between thermal and electrical transport of partly reduced graphene paper. <b>2021</b> , 178, 92-102	5
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121	Hydrothermal synthesis of micro-flower like morphology aluminum-doped MoS <sub>2</sub> /rGO nanohybrids for high efficient electromagnetic wave shielding materials. <b>2021</b> , 47, 15648-15660	7
120	Lightweight high-performance carbon-polymer nanocomposites for electromagnetic interference shielding. <b>2021</b> , 145, 106376	30
119	Tailoring conductive network nanostructures of ZIF-derived cobalt-decorated N-doped graphene/carbon nanotubes for microwave absorption applications. <b>2021</b> , 591, 463-473	24
118	Microcellular epoxy/reduced graphene oxide/multi-walled carbon nanotube nanocomposite foams for electromagnetic interference shielding. <b>2021</b> , 552, 149232	9
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116	Nanocellulose Coupled 2D Graphene Nanostructures: Emerging Paradigm for Sustainable Functional Applications. <b>2021</b> , 60, 10882-10916	12
115	A Review of Conductive Carbon Materials for 3D Printing: Materials, Technologies, Properties, and Applications. <b>2021</b> , 14,	8
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113	Ultrathin, Ultralight, and Anisotropic Ordered Reduced Graphene Oxide Fiber Electromagnetic Interference Shielding Membrane. 2100531	1
112	Electromagnetic Shielding Effectiveness of an Absorber-Like Carbonyl Iron-FeNi Double-Layer Composite. 1	
111	Effective EMI shielding behaviour of thin graphene/PMMA nanolaminates in the THz range. <b>2021</b> , 12, 4655	21

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109	Sustainable paper templated ultrathin, light-weight and flexible niobium carbide based films against electromagnetic interference. <b>2021</b> , 183, 929-939	3
108	Free-standing laser-induced graphene films for high-performance electromagnetic interference shielding. <b>2021</b> , 183, 600-611	10
107	Multiple interfacial polarization from 3D net-like ZnO@MWCNTs@NiFe <sub>2</sub> O <sub>4</sub> nanocomposites as broadband microwave absorbers. <b>2021</b> , 877, 160300	8
106	Flexible 3D porous graphene film decorated with nickel nanoparticles for absorption-dominated electromagnetic interference shielding. <b>2021</b> , 421, 129763	13
105	Nanomaterials Based Biosensing: Methods and Principle of Detection. <b>2022</b> , 1-27	1
104	Interfacial polymerized copolymers of aniline and phenylenediamine with tunable magnetoresistance and negative permittivity. <b>2021</b> , 21, 100502	17
103	Flexible and superhydrophobic carbonized cotton fabrics for effective electromagnetic interference shielding. <b>2021</b> , 540, 168434	2
102	High-performance electromagnetic interference shielding epoxy/Ag nanowire/thermal annealed graphene aerogel composite with bicontinuous three-dimensional conductive skeleton. <b>2021</b> , 151, 106648	6
101	Recent progress in two-dimensional materials for microwave absorption applications. <b>2021</b> , 425, 131558	9
100	Strong microwave absorption by dipole polarization and widened magnetic resonance in doped SrFe <sub>12-2x</sub> ZnxRu <sub>x</sub> O <sub>19</sub> . <b>2022</b> , 541, 168559	0
99	Preparation of 2D Graphene/MXene nanocomposite for the electrochemical determination of hazardous bisphenol A in plastic products. <b>2022</b> , 287, 132106	7
98	Hierarchical Porous Film with Layer-by-Layer Assembly of 2D Copper Nanosheets for Ultimate Electromagnetic Interference Shielding. <b>2021</b> , 15, 829-839	31
97	Electromagnetic Interference (EMI) Shielding Effectiveness (SE) of Polymer-Carbon Composites. <b>2019</b> , 339-368	8
96	Homogeneous silver nanoparticles decorating 3D carbon nanotube sponges as flexible high-performance electromagnetic shielding composite materials. <b>2020</b> , 165, 404-411	28
95	Combination effect of carbon nanofiber and ketjen carbon black hybrid nanofillers on mechanical, electrical, and electromagnetic interference shielding properties of chlorinated polyethylene nanocomposites. <b>2020</b> , 197, 108071	25
94	The linear and non-linear optical absorption and asymmetrical electromagnetic interaction in chiral twisted bilayer graphene with hybrid edges. <b>2020</b> , 14, 100222	35
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89	Facile synthesis of ultra-lightweight silver/reduced graphene oxide (rGO) coated carbonized-melamine foams with high electromagnetic interference shielding effectiveness and high absorption coefficient. <b>2022</b> , 186, 9-18	9
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87	Effect of different superimposed structures on the transparent electromagnetic interference shielding performance of graphene. <b>2020</b> , 128, 185102	0
86	Graphene quantum dots, graphene nanoplatelets, and graphene nanoribbons with polymers. <b>2022</b> , 91-116	
85	Polymer/graphene nanocomposites as versatile platforms for energy and electronic devices. <b>2022</b> , 173-196	
84	MXene hybrid polyvinyl alcohol flexible composite films for electromagnetic interference shielding. <b>2022</b> , 578, 152007	3
83	Progress in Electrospun Polymer Composite Fibers for Microwave Absorption and Electromagnetic Interference Shielding. <b>2021</b> , 3, 4657-4680	5
82	High comprehensive electrocaloric performance in barium titanate-based ceramics via integrating diffuse phase transition near room temperature and a high applied electric field. <b>2021</b> , 48, 6842-6842	0
81	Ultrathin flexible electrospun carbon nanofibers reinforced graphene microgasbags films with three-dimensional conductive network toward synergetic enhanced electromagnetic interference shielding. <b>2021</b> , 111, 57-57	9
80	Systematic fabrication and electromagnetic performance of porous biomass carbon/ferrite nanocomposites. <b>2021</b> , 163048	1
79	Pillared carbon@tungsten decorated reduced graphene oxide film for pressure sensors with ultra-wide operation range in motion monitoring. <b>2022</b> , 189, 430-442	8
78	Fabrication of Chitosan/MXene multilayered film based on layer-by-layer assembly: Toward enhanced electromagnetic interference shielding and thermal management capacity. <b>2022</b> , 155, 106809	11
77	Nickel-coated wood-derived porous carbon (Ni/WPC) for efficient electromagnetic interference shielding. 1	1
76	Porous carbons for environment remediation. <b>2022</b> , 541-802	
75	Reduced graphene oxide wrapped 3D-ultrathin CoS <sub>2</sub> nanoflakes as an absorbing material with enhanced microwave absorption. <b>2022</b> ,	1

74	Microstructure driven magnetic composite for excellent microwave absorption in extended Ku-band. <i>Journal of Materials Chemistry C</i> , 2022, 10, 115611	7.1	0
73	Improved mechanical and EMI shielding properties of PLA/PCL composites by controlling distribution of PIL-modified CNTs. 1		1
72	Pressure-Induced Self-Interlocked Structures for Expanded Graphite Composite Papers Achieving Prominent EMI Shielding Effectiveness and Outstanding Thermal Conductivities.. <b>2022</b> , 14, 3233-3243		8
71	Electromagnetic asymmetric films comprise metal organic frameworks derived porous carbon for absorption-dominated electromagnetic interference shielding. <b>2022</b> , 233, 109622		3
70	Tailoring the internal structure of porous copper film via size-controlled copper nanosheets for electromagnetic interference shielding. <b>2022</b> , 278, 115611		2
69	A journey of thermoplastic elastomer nanocomposites for the electromagnetic shielding application: from bench to transitional research.		2
68	Highly optically transparent graphene mesh for electromagnetic interference shielding. <b>2022</b> , 123, 108849		1
67	Clarification of basic concepts for electromagnetic interference shielding effectiveness. <b>2021</b> , 130, 225108		19
66	A generic model for the study of supercontinuum generation in graphene-covered nanowires. <b>2022</b> , 4, 015001		2
65	Introduction to Electromagnetic Shielding Composites. <b>2022</b> , 1-38		
64	Recent advancements in the electromagnetic interference shielding performance of nanostructured materials and their nanocomposites: a review. <b>2022</b> , 10, 7431-7496		4
63	Recent Progress in the Application of Cellulose in Electromagnetic Interference Shielding Materials. 2100899		1
62	Molecular Dynamic Simulation on Temperature Evolution of SiC under Directional Microwave Radiation.. <b>2022</b> ,		0
61	One-step synthesis of SiC/C nanocomposites by atmospheric thermal plasmas for efficient microwave absorption. <b>2022</b> , 48, 10391-10402		0
60	Absorption dominated high-performance electromagnetic interference shielding epoxy/functionalized reduced graphene oxide/Ni-chains microcellular foam with asymmetric conductive structure. <b>2022</b> , 223, 109419		3
59	Multilayer structured CNF/rGO aerogels and rGO film composites for efficient electromagnetic interference shielding.. <b>2022</b> , 286, 119306		2
58	Transparent and High-Absolute-Effectiveness Electromagnetic Interference Shielding Film Based on Single-Crystal Graphene. 2101465		1
57	Self-healable electromagnetic interference shielding composite films with temperature and strain dual responsiveness.		0

56	Enhanced electromagnetic interference (EMI) shielding in BiFeO <sub>3</sub> /graphene oxide nanocomposites over X-band frequency region. <b>2022</b> , 131, 174101	0
55	Superhydrophobic Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene/aramid nanofiber films for high-performance electromagnetic interference shielding in thermal environment. <b>2022</b> , 136945	2
54	C60 intercalating Ti <sub>3</sub> C <sub>2</sub> T MXenes assisted by Cyclodextrin for electromagnetic interference shielding films with high stability. <b>2022</b> , 127, 71-77	1
53	Structural Evolution of MXenes and Their Composites for Electromagnetic Interference Shielding Applications.	2
52	Multilayer intercalation: MXene/cobalt ferrite electromagnetic wave absorbing two-dimensional materials. <b>2022</b> , 168, 110797	0
51	Biocompatible, stretchable, and compressible cellulose/MXene hydrogel for strain sensor and electromagnetic interference shielding. 1-11	2
50	Ultra-narrow-band absorption enhancement of monolayer graphene based on surface lattice resonance modes.	
49	Broadband electromagnetic shielding performance of carbon nanotube-carbon fibre/silicon carbide cross-scale laminated composites. <b>2022</b> ,	
48	Nanodiamond islands confined between two graphene sheets as perspective 2D quantum materials. <b>2022</b> ,	1
47	2D Monolayers for Superior Transparent Electromagnetic Interference Shielding.	1
46	Structurally distorted perovskite La <sub>0.8</sub> Sr <sub>0.2</sub> Mn <sub>0.5</sub> Co <sub>0.5</sub> O <sub>3-<math>\delta</math></sub> by graphene nanoplatelet and their composite for supercapacitors with enhanced stability. <b>2022</b> , 12,	0
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44	Ti <sub>3</sub> C <sub>2</sub> TX MXene Beaded SiC Nanowires for Efficient Microwave Absorption.	5
43	Bioinspired MXene/polyurethane plastic films with exceptional flexibility and toughness for electromagnetic interference shielding. <b>2022</b> , 154, 111939	1
42	Graphene fibre film/polydimethylsiloxane nanocomposites for high-performance electromagnetic interference shielding.	
41	Tunable and enhanced microwave absorption properties by adjusting the distribution of Co/CoFe embedded into the carbon nanohorns and graphene microspheres. <b>2022</b> , 922, 166201	0
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39	Analysis of Electromagnetic Shielding Properties of a Material Developed Based on Silver-Coated Copper Core-Shell Spraying. <b>2022</b> , 15, 5448	1

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- 32 Strategic Design Rgo Foam Composites Towards Excellent Electromagnetic Shielding Performance, Good Thermal Management Ability and Flame Retardancy. ○
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- 30 Graphene-Based Electrospun Fibrous Materials with Enhanced EMI Shielding: Recent Developments and Future Perspectives. **2022**, 7, 33699-33718 2
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