

# Mao-Sheng Cao

## List of Publications by Year in Descending Order

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

297  
papers

24,738  
citations

79  
h-index

151  
g-index

310  
ext. papers

29,478  
ext. citations

6  
avg, IF

7.56  
L-index

#	Paper	IF	Citations
297	Green building materials lit up by electromagnetic absorption function: A review. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 112, 329-344	9.1	13
296	Annealed Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> : A green and tunable electromagnetic interference shielding material. <i>Ceramics International</i> , <b>2022</b> , 48, 10516-10525	5.1	0
295	MXene films: Toward high-performance electromagnetic interference shielding and supercapacitor electrode. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2022</b> , 157, 106935	8.4	1
294	Constructing WSe <sub>2</sub> @CNTs heterojunction to tune attenuation capability for efficient microwave absorbing and green EMI shielding. <i>Applied Surface Science</i> , <b>2022</b> , 592, 153253	6.7	2
293	Novel MOF-derived 3D hierarchical needlelike array architecture with excellent EMI shielding, thermal insulation and supercapacitor performance.. <i>Nanoscale</i> , <b>2022</b> , 14, 7322-7331	7.7	6
292	Regulating bifunctional flower-like NiFe <sub>2</sub> O <sub>4</sub> /graphene for green EMI shielding and lithium ion storage. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 127, 48-60	9.1	10
291	Developing electromagnetic functional materials for green building. <i>Journal of Building Engineering</i> , <b>2021</b> , 103496	5.2	4
290	Biomass-derived carbon-coated WS <sub>2</sub> core-shell nanostructures with excellent electromagnetic absorption in C-band. <i>Applied Surface Science</i> , <b>2021</b> , 577, 151939	6.7	3
289	Implantation of WSe nanosheets into multi-walled carbon nanotubes for enhanced microwave absorption. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 609, 746-746	9.3	16
288	MXene nanohybrids: Excellent electromagnetic properties for absorbing electromagnetic waves. <i>Ceramics International</i> , <b>2021</b> ,	5.1	2
287	Diverse Metal-Organic Framework Architectures for Electromagnetic Absorbers and Shielding. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100470	15.6	101
286	Developing MXenes from Wireless Communication to Electromagnetic Attenuation. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 115	19.5	50
285	Assembling 3D flower-like Co <sub>3</sub> O <sub>4</sub> -MWCNT architecture for optimizing low-frequency microwave absorption. <i>Carbon</i> , <b>2021</b> , 174, 638-646	10.4	37
284	Construction of low-frequency and high-efficiency electromagnetic wave absorber enabled by texturing rod-like TiO <sub>2</sub> on few-layer of WS <sub>2</sub> nanosheets. <i>Applied Surface Science</i> , <b>2021</b> , 548, 149158	6.7	26
283	MXene-CNT/PANI ternary material with excellent supercapacitive performance driven by synergy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 868, 159159	5.7	15
282	Theoretical studies on the optical properties of group-III elements doped SiCNTs. <i>Optical Materials</i> , <b>2021</b> , 117, 111148	3.3	3
281	Electrospinning and in-situ hierarchical thermal treatment to tailor C/NiCo <sub>2</sub> O <sub>4</sub> nanofibers for tunable microwave absorption. <i>Carbon</i> , <b>2021</b> , 171, 953-962	10.4	61

280	Tailoring adsorption for tunable lithium ion storage and devices. <i>Chemical Engineering Journal</i> , <b>2021</b> , 413, 127428	14.7	13
279	Transport and recombination properties of group-III doped SiCNTs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2021</b> , 128, 114578	3	15
278	Rutile TiO <sub>2</sub> nanorod with anomalous resonance for charge storage and frequency selective absorption. <i>Ceramics International</i> , <b>2021</b> , 47, 2016-2021	5.1	4
277	Hierarchical C/Co <sub>3</sub> O <sub>4</sub> nanoarray on a nickel substrate integrating electromagnetic and thermal shielding. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 6553-6558	7.8	3
276	Electromagnetic absorber converting radiation for multifunction. <i>Materials Science and Engineering Reports</i> , <b>2021</b> , 145, 100627	30.9	52
275	Engineering flexible and green electromagnetic interference shielding materials with high performance through modulating WS <sub>2</sub> nanosheets on carbon fibers. <i>Journal of Materiomics</i> , <b>2021</b> ,	6.7	2
274	Metal-organic frameworks based photocatalysts: Architecture strategies for efficient solar energy conversion. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129459	14.7	27
273	High-performance microwave absorption enabled by Co <sub>3</sub> O <sub>4</sub> modified VB-group laminated VS <sub>2</sub> with frequency modulation from S-band to Ku-band. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 107, 155-155	9.1	26
272	Bifunctional Ti <sub>3</sub> C <sub>2</sub> Tx/CNT/PANI composite with excellent electromagnetic shielding and supercapacitive performance. <i>Ceramics International</i> , <b>2021</b> , 47, 25531-25540	5.1	4
271	Thermally-tailoring dielectric genes in graphene-based heterostructure to manipulate electromagnetic response. <i>Carbon</i> , <b>2021</b> , 184, 136-145	10.4	26
270	Recent progress in two-dimensional materials for microwave absorption applications. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131558	14.7	9
269	Tailorable MOF architectures for high-efficiency electromagnetic functions. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 6444-6460	7.8	6
268	Confinedly implanting Fe <sub>3</sub> O <sub>4</sub> nanoclusters on MoS <sub>2</sub> nanosheets to tailor electromagnetic properties for excellent multi-bands microwave absorption. <i>Journal of Materiomics</i> , <b>2021</b> ,	6.7	2
267	Different substitutions lead to differences in the transport and recombination properties of group V doped SiCNTs. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2020</b> , 384, 126602	2.3	4
266	Conductive WS <sub>2</sub> -NS/CNTs hybrids based 3D ultra-thin mesh electromagnetic wave absorbers with excellent absorption performance. <i>Applied Surface Science</i> , <b>2020</b> , 528, 147052	6.7	41
265	Tailoring MOF-based materials to tune electromagnetic property for great microwave absorbers and devices. <i>Carbon</i> , <b>2020</b> , 162, 157-171	10.4	96
264	Enhancing electromagnetic wave absorption performance of Co <sub>3</sub> O <sub>4</sub> nanoparticles functionalized MoS <sub>2</sub> nanosheets. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 829, 154531	5.7	43
263	Variable-Temperature Electron Transport and Dipole Polarization Turning Flexible Multifunctional Microsensor beyond Electrical and Optical Energy. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907156	24	135

262	Molecular Patching Engineering to Drive Energy Conversion as Efficient and Environment-Friendly Cell toward Wireless Power Transmission. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908299	15.6	125
261	Confinedly growing and tailoring of CoO clusters-WS nanosheets for highly efficient microwave absorption. <i>Nanotechnology</i> , <b>2020</b> , 31, 325703	3.4	5
260	Synergetic dielectric loss and magnetic loss towards superior microwave absorption through hybridization of few-layer WS <sub>2</sub> nanosheets with NiO nanoparticles. <i>Science Bulletin</i> , <b>2020</b> , 65, 138-146	10.6	77
259	Effects of hydroxyl groups and hydrogen passivation on the structure, electrical and optical properties of silicon carbide nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2020</b> , 384, 126106	2.3	34
258	Assembling Nano-Microarchitecture for Electromagnetic Absorbers and Smart Devices. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002112	24	107
257	A study of the microwave actuation of a liquid crystalline elastomer. <i>Soft Matter</i> , <b>2020</b> , 16, 7332-7341	3.6	5
256	Hollow nanoparticle-assembled hierarchical NiCo <sub>2</sub> O <sub>4</sub> nanofibers with enhanced electrochemical performance for lithium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 4101-4112	6.8	9
255	Wire-in-tube ZnO@carbon by molecular layer deposition: Accurately tunable electromagnetic parameters and remarkable microwave absorption. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122860	14.7	61
254	Self-assembling flexible 2D carbide MXene film with tunable integrated electron migration and group relaxation toward energy storage and green EMI shielding. <i>Carbon</i> , <b>2020</b> , 157, 80-89	10.4	109
253	Customizing coaxial stacking VS <sub>2</sub> nanosheets for dual-band microwave absorption with superior performance in the C- and Ku-bands. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 5923-5933	7.1	51
252	A Nano-Micro Engineering Nanofiber for Electromagnetic Absorber, Green Shielding and Sensor. <i>Nano-Micro Letters</i> , <b>2020</b> , 13, 27	19.5	87
251	Ultrathin Topological Insulator Absorber: Unique Dielectric Behavior of BiTe Nanosheets Based on Conducting Surface States. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 33285-33291	9.5	59
250	An electromagnetic wave absorbing material with potential application prospects WS <sub>2</sub> nanosheets. <i>Integrated Ferroelectrics</i> , <b>2019</b> , 200, 108-116	0.8	3
249	Tailoring rGO-NiFe <sub>2</sub> O <sub>4</sub> hybrids to tune transport of electrons and ions for supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 811, 152011	5.7	39
248	Highly effective shielding of electromagnetic waves in MoS <sub>2</sub> nanosheets synthesized by a hydrothermal method. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 134, 77-82	3.9	13
247	Lightweight and High-Performance Microwave Absorber Based on 2D WS-RGO Heterostructures. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 38	19.5	116
246	Eco-mimetic nanoarchitecture for green EMI shielding. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 1068-1077	17.7	118
245	Rational design of NiFe <sub>2</sub> O <sub>4</sub> /rGO by tuning the compositional chemistry and its enhanced performance for a Li-ion battery anode. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 961-968	6.8	19

244	Controllable synthesis and characterization of tungsten disulfide nanosheets as promising nanomaterials for electronic devices. <i>Ceramics International</i> , <b>2019</b> , 45, 12443-12448	5.1	7
243	Atomic Layer Tailoring Titanium Carbide MXene To Tune Transport and Polarization for Utilization of Electromagnetic Energy beyond Solar and Chemical Energy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 12535-12543	9.5	115
242	Electromagnetic Response and Energy Conversion for Functions and Devices in Low-Dimensional Materials. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807398	15.6	372
241	Electronic Structure and Electromagnetic Properties for 2D Electromagnetic Functional Materials in Gigahertz Frequency. <i>Annalen Der Physik</i> , <b>2019</b> , 531, 1800390	2.6	136
240	Temperature- and diameter-dependent electrical conductivity of nitrogen doped ZnO nanowires. <i>European Physical Journal B</i> , <b>2019</b> , 92, 1	1.2	3
239	NiFe Layered Double Hydroxide on Nitrogen Doped TiO <sub>2</sub> Nanotube Arrays toward Efficient Oxygen Evolution. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5960-5967	6.1	31
238	Photo actuation of liquid crystalline elastomer nanocomposites incorporated with gold nanoparticles based on surface plasmon resonance. <i>Soft Matter</i> , <b>2019</b> , 15, 6116-6126	3.6	12
237	Electromagnetic Functions of Patterned 2D Materials for Micro/Nano Devices Covering GHz, THz, and Optical Frequency. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900689	8.1	64
236	Light-weight and low-cost electromagnetic wave absorbers with high performances based on biomass-derived reduced graphene oxides. <i>Nanotechnology</i> , <b>2019</b> , 30, 445708	3.4	39
235	Self-Assembly Construction of WS <sub>2</sub> -rGO Architecture with Green EMI Shielding. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26807-26816	9.5	64
234	NiFe <sub>2</sub> O <sub>4</sub> nanoparticles on reduced graphene oxide for supercapacitor electrodes with improved capacitance. <i>Materials Research Express</i> , <b>2019</b> , 6, 105535	1.7	9
233	Tailoring TiCT nanosheets to tune local conductive network as an environmentally friendly material for highly efficient electromagnetic interference shielding. <i>Nanoscale</i> , <b>2019</b> , 11, 6080-6088	7.7	112
232	Cobalt doping of bismuth ferrite for matched dielectric and magnetic loss. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 212902	3.4	22
231	Highly efficient and giant negative electrocaloric effect of a Nb and Sn co-doped lead zirconate titanate antiferroelectric film near room temperature.. <i>RSC Advances</i> , <b>2019</b> , 9, 34114-34119	3.7	6
230	Enhanced electromagnetic interference shielding with low reflection induced by heterogeneous double-layer structure in BiFeO <sub>3</sub> /BaFe <sub>7</sub> (MnTi) <sub>2.5</sub> O <sub>19</sub> composite. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 772, 99-104	5.7	13
229	2D MXenes: Electromagnetic property for microwave absorption and electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 1265-1302	14.7	418
228	Axiolitic ZnO rods wrapped with reduced graphene oxide: Fabrication, microstructure and highly efficient microwave absorption. <i>Materials Letters</i> , <b>2019</b> , 241, 14-17	3.3	7
227	A green fabrication and variable temperature electromagnetic properties for thermal stable microwave absorption towards flower-like Co <sub>3</sub> O <sub>4</sub> @rGO/SiO <sub>2</sub> composites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 166, 187-195	10	117

226	Multifunctional BiFeO <sub>3</sub> composites: Absorption attenuation dominated effective electromagnetic interference shielding and electromagnetic absorption induced by multiple dielectric and magnetic relaxations. <i>Composites Science and Technology</i> , <b>2018</b> , 159, 240-250	8.6	41
225	Hierarchical three-dimensional flower-like Co <sub>3</sub> O <sub>4</sub> architectures with a mesocrystal structure as high capacity anode materials for long-lived lithium-ion batteries. <i>Nano Research</i> , <b>2018</b> , 11, 1437-1446	10	78
224	Inhibition of quantum size effects from surface dangling bonds: The first principles study on different morphology SiC nanowires. <i>Physica B: Condensed Matter</i> , <b>2018</b> , 539, 72-77	2.8	21
223	Strong mechanics and broadened microwave absorption of graphene-based sandwich structures and surface-patterned structures. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 9683-9691	2.1	6
222	A facile fabrication and highly tunable microwave absorption of 3D flower-like Co <sub>3</sub> O <sub>4</sub> -rGO hybrid-architectures. <i>Chemical Engineering Journal</i> , <b>2018</b> , 339, 487-498	14.7	311
221	Discrete impurity band from surface dangling bonds in nitrogen and phosphorus doped SiC nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 98, 191-196	3	23
220	Magnetic-field-induced dielectric behaviors and magneto-electrical coupling of multiferroic compounds containing cobalt ferrite/barium calcium titanate composite fibers. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 740, 1067-1076	5.7	36
219	Multiple electrical response and enhanced energy storage induced by unusual coexistent-phase structure in relaxor ferroelectric ceramics. <i>Acta Materialia</i> , <b>2018</b> , 146, 202-210	8.4	56
218	One-step fabrication of N-doped CNTs encapsulating M nanoparticles (M = Fe, Co, Ni) for efficient microwave absorption. <i>Applied Surface Science</i> , <b>2018</b> , 447, 244-253	6.7	79
217	Enhanced microwave absorption properties of Co-doped SiC at elevated temperature. <i>Applied Surface Science</i> , <b>2018</b> , 445, 383-390	6.7	31
216	Graphene nanohybrids: excellent electromagnetic properties for the absorbing and shielding of electromagnetic waves. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 4586-4602	7.1	351
215	Heterogeneous p-n Junction CdS/CuO Nanorod Arrays: Synthesis and Superior Visible-Light-Driven Photoelectrochemical Performance for Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11652-11662	9.5	115
214	Chemical reduction dependent dielectric properties and dielectric loss mechanism of reduced graphene oxide. <i>Carbon</i> , <b>2018</b> , 127, 209-217	10.4	163
213	Confinedly implanted NiFe <sub>2</sub> O <sub>4</sub> -rGO: Cluster tailoring and highly tunable electromagnetic properties for selective-frequency microwave absorption. <i>Nano Research</i> , <b>2018</b> , 11, 1426-1436	10	307
212	Confinedly tailoring Fe <sub>3</sub> O <sub>4</sub> clusters-NG to tune electromagnetic parameters and microwave absorption with broadened bandwidth. <i>Chemical Engineering Journal</i> , <b>2018</b> , 332, 321-330	14.7	312
211	Highly efficient microwave absorption properties and broadened absorption bandwidth of MoS <sub>2</sub> -iron oxide hybrids and MoS <sub>2</sub> -based reduced graphene oxide hybrids with Hetero-structures. <i>Applied Surface Science</i> , <b>2018</b> , 462, 872-882	6.7	65
210	Effect of surface dangling bonds on transport properties of phosphorous doped SiC nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 104, 247-253	3	47
209	Morphology and structure of WS <sub>2</sub> nanosheets prepared by solvothermal method with surfactants. <i>Integrated Ferroelectrics</i> , <b>2018</b> , 188, 24-30	0.8	6



208	Thermally Driven Transport and Relaxation Switching Self-Powered Electromagnetic Energy Conversion. <i>Small</i> , <b>2018</b> , 14, e1800987	11	511
207	Facile synthesis of highly conductive MoS/graphene nanohybrids with hetero-structures as excellent microwave absorbers.. <i>RSC Advances</i> , <b>2018</b> , 8, 36616-36624	3.7	11
206	The synergetic electromagnetic properties and enhanced microwave absorption of BiFeO <sub>3</sub> /BaFe <sub>7</sub> (MnTi) <sub>2.5</sub> O <sub>19</sub> composite. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 19739-19747	2.1	1
205	Green Approach to Conductive PEDOT:PSS Decorating Magnetic-Graphene to Recover Conductivity for Highly Efficient Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 14017-14025	8.3	79
204	High-performance microwave absorption materials based on MoS <sub>2</sub> -graphene isomorphic hetero-structures. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 758, 62-71	5.7	53
203	Comparative study on transport properties and scattering mechanism of group III doped SiC nanotube. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2018</b> , 382, 2484-2488	2.3	18
202	Effect of surface dangling bonds on transport properties of phosphorous doped SiC nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 104, 247-253	3	8
201	Enhanced photoelectrochemical properties of ZnO/ZnSe/CdSe/Cu <sub>2</sub> -xSe core-shell nanowire arrays fabricated by ion-replacement method. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 209, 110-117	21.8	72
200	Highly Efficient Microwave Absorption of Magnetic Nanospindle-Conductive Polymer Hybrids by Molecular Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 11116-11125	9.5	70
199	A wearable microwave absorption cloth. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2432-2441	7.1	74
198	Improved dielectric properties and microwave absorbing properties of SiC Nanorods/Ni core-shell structure. <i>Functional Materials Letters</i> , <b>2017</b> , 10, 1750069	1.2	9
197	Distinctly Improved Photocurrent and Stability in TiO <sub>2</sub> Nanotube Arrays by Ladder Band Structure. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 20605-20612	3.8	21
196	Flexible Semitransparent Energy Harvester with High Pressure Sensitivity and Power Density Based on Laterally Aligned PZT Single-Crystal Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24698-24703	9.5	30
195	Evolution of Structural and Electrical Properties of Oxygen-Deficient VO under Low Temperature Heating Process. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27135-27141	9.5	30
194	Coaxial multi-interface hollow Ni-Al <sub>2</sub> O <sub>3</sub> -ZnO nanowires tailored by atomic layer deposition for selective-frequency absorptions. <i>Nano Research</i> , <b>2017</b> , 10, 1595-1607	10	62
193	Enhanced microwave absorption properties of NiFe <sub>2</sub> O <sub>4</sub> nanocrystal deposited reduced graphene oxides. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 11518-11523	2.1	21
192	Hydrothermal growth of VO <sub>2</sub> nanoplate thermochromic films on glass with high visible transmittance. <i>Scientific Reports</i> , <b>2016</b> , 6, 27898	4.9	25
191	Thermal frequency shift and tunable microwave absorption in BiFeO <sub>3</sub> family. <i>Scientific Reports</i> , <b>2016</b> , 6, 24837	4.9	61

190	Small magnetic nanoparticles decorating reduced graphene oxides to tune the electromagnetic attenuation capacity. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 7130-7140	7.1	282
189	Effects of electrodes on ferroelectric properties of PNZT films prepared by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , <b>2016</b> , 78, 258-261	2.3	11
188	Strong and thermostable polymeric graphene/silica textile for lightweight practical microwave absorption composites. <i>Carbon</i> , <b>2016</b> , 100, 109-117	10.4	160
187	Mn, Ti substituted barium ferrite to tune electromagnetic properties and enhanced microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 5128-5135	2.1	14
186	Hydrothermal preparation and characterization of sheet-like (KxNa1-x)NbO3 perovskites. <i>Ceramics International</i> , <b>2016</b> , 42, 9073-9078	5.1	12
185	Domain Structure and Enhanced Electrical Properties in Sodium Bismuth Titanate Ceramics Sintered from Crystals with Different Morphologies. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 2316-2326	3.8	21
184	Structural and ferroelectric properties of textured KNN thick films prepared by sol-gel methods. <i>Integrated Ferroelectrics</i> , <b>2016</b> , 176, 171-178	0.8	7
183	Doping effect on the adsorption of Na atom onto graphenes. <i>Current Applied Physics</i> , <b>2016</b> , 16, 574-580	2.6	20
182	Effects of thickness on energy storage of (Pb, La)(Zr, Sn, Ti)O3 antiferroelectric films deposited on LaNiO3 electrodes. <i>Ceramics International</i> , <b>2016</b> , 42, 1314-1317	5.1	20
181	Carbon nanotube-CdS core-shell nanowires with tunable and high-efficiency microwave absorption at elevated temperature. <i>Nanotechnology</i> , <b>2016</b> , 27, 065702	3.4	104
180	Unusual continuous dual absorption peaks in Ca-doped BiFeO3 nanostructures for broadened microwave absorption. <i>Nanoscale</i> , <b>2016</b> , 8, 10415-24	7.7	128
179	Enhanced electromagnetic properties and microwave attenuation of BiFeO3-BaFe7(MnTi)2.5O19 driven by multi-relaxation and strong ferromagnetic resonance. <i>Materials and Design</i> , <b>2016</b> , 110, 99-104	8.1	28
178	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
177	Numerical predictions of the mechanical properties of NT-ZnOw reinforced composites. <i>Computational Materials Science</i> , <b>2015</b> , 96, 185-190	3.2	5
176	Temperature- and thickness-dependent electrical conductivity of few-layer graphene and graphene nanosheets. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2015</b> , 379, 2245-2251	2.3	205
175	NiO hierarchical nanorings on SiC: enhancing relaxation to tune microwave absorption at elevated temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 7073-7	9.5	296
174	Electronic Structures and Adsorption of Li-Doped Graphenes for CO. <i>Chinese Physics Letters</i> , <b>2015</b> , 32, 036802	1.8	3
173	Effect of MnO2 addition on relaxor behavior and electrical properties of PMNST ferroelectric ceramics. <i>Ceramics International</i> , <b>2015</b> , 41, 9647-9654	5.1	17



172	Enhanced microwave absorption performance of polyaniline-coated CNT hybrids by plasma-induced graft polymerization. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 119, 379-386	2.6	27
171	Enhanced permittivity and multi-region microwave absorption of nanoneedle-like ZnO in the X-band at elevated temperature. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 4670-4677	7.1	199
170	Tuning three-dimensional textures with graphene aerogels for ultra-light flexible graphene/texture composites of effective electromagnetic shielding. <i>Carbon</i> , <b>2015</b> , 93, 151-160	10.4	171
169	Low-temperature synthesis of ribbon-like orthorhombic NaNbO <sub>3</sub> fibers and their photocatalytic activities for H <sub>2</sub> evolution. <i>RSC Advances</i> , <b>2015</b> , 5, 33001-33007	3.7	14
168	3D Fe <sub>3</sub> O <sub>4</sub> nanocrystals decorating carbon nanotubes to tune electromagnetic properties and enhance microwave absorption capacity. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 12621-12625	13	240
167	Sol-gel synthesis of Nd-doped BiFeO <sub>3</sub> multiferroic and its characterization. <i>Ceramics International</i> , <b>2015</b> , 41, 8768-8772	5.1	86
166	Oxidizing annealing effects on VO <sub>2</sub> films with different microstructures. <i>Applied Surface Science</i> , <b>2015</b> , 345, 232-237	6.7	49
165	Modified hydrothermal synthesis and structural characterization of monoclinic (K <sub>0.05</sub> Na <sub>0.15</sub> )NbO <sub>3</sub> rods. <i>Ceramics International</i> , <b>2015</b> , 41, 8837-8842	5.1	5
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158	High-efficiency and dynamic stable electromagnetic wave attenuation for La doped bismuth ferrite at elevated temperature and gigahertz frequency. <i>RSC Advances</i> , <b>2015</b> , 5, 77184-77191	3.7	56
157	Nd doping of bismuth ferrite to tune electromagnetic properties and increase microwave absorption by magnetic-dielectric synergy. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 9276-9282	7.1	107
156	Temperature dependent microwave absorption of ultrathin graphene composites. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10017-10022	7.1	358
155	Magnetic and conductive graphene papers toward thin layers of effective electromagnetic shielding. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2097-2107	13	162

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152	The Growth Behavior and Mechanism of KNN Nanorods with Sol-gel Route. <i>Integrated Ferroelectrics</i> , <b>2015</b> , 160, 135-141	0.8	4
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144	Multi-wall carbon nanotubes decorated with ZnO nanocrystals: mild solution-process synthesis and highly efficient microwave absorption properties at elevated temperature. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10540	13	341
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141	Highly ordered porous carbon/wax composites for effective electromagnetic attenuation and shielding. <i>Carbon</i> , <b>2014</b> , 77, 130-142	10.4	242
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139	Facile fabrication of ultrathin graphene papers for effective electromagnetic shielding. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 5057-5064	7.1	138
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132	Effects of Oxygen Vacancy on Optical and Electrical Properties of ZnO Bulks and Nanowires. <i>Chinese Physics Letters</i> , <b>2014</b> , 31, 117301	1.8	3
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130	Effects of Nb <sub>2</sub> O <sub>5</sub> additive on the piezoelectric and dielectric properties of PHT-PMN ternary ceramics near the morphotropic phase boundary. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2014</b> , 211, 226-230	1.6	21
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128	Flexible graphene/polymer composite films in sandwich structures for effective electromagnetic interference shielding. <i>Carbon</i> , <b>2014</b> , 66, 67-76	10.4	409
127	Fabrication, microstructure and microwave absorption of multi-walled carbon nanotube decorated with CdS nanocrystal. <i>Materials Letters</i> , <b>2014</b> , 125, 107-110	3.3	25
126	Electrical conductivity and microwave absorption of shortened multi-walled carbon nanotube/alumina ceramic composites. <i>Ceramics International</i> , <b>2013</b> , 39, 5979-5983	5.1	54
125	Thickness-dependent electrical properties of sol-gel derived Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> thick films using PbTiO <sub>3</sub> buffer layers. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 3521-3525	2.1	8
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49	Microwave synthesis of Al-doped SiC powders and study of their dielectric properties. <i>Materials Research Bulletin</i> , <b>2010</b> , 45, 247-250	5.1	74
48	Thickness effect on electrical properties of $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ thick films embedded with ZnO nanowhiskers prepared by a hybrid sol-gel route. <i>Materials Letters</i> , <b>2010</b> , 64, 632-635	3.3	26
47	Enhanced piezoelectric and mechanical properties of ZnO whiskers and $\text{Sb}_2\text{O}_3$ co-modified lead zirconate titanate composites. <i>Materials Letters</i> , <b>2010</b> , 64, 1798-1801	3.3	29

46	Effect of heavily doping with boron on electronic structures and optical properties of 3C-SiC. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 2625-2631	2.8	14
45	Scattering mechanisms and anomalous conductivity of heavily N-doped 3C-SiC in ultraviolet region. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2010</b> , 374, 2286-2289	2.3	19
44	Dynamic compressive response and failure behavior of fiber polymer composites embedded with tetra-needle-like ZnO nanowhiskers. <i>Composite Structures</i> , <b>2010</b> , 92, 2984-2991	5.3	20
43	The effects of temperature and frequency on the dielectric properties, electromagnetic interference shielding and microwave-absorption of short carbon fiber/silica composites. <i>Carbon</i> , <b>2010</b> , 48, 788-796	10.4	1264
42	High-temperature microwave absorption and evolutionary behavior of multiwalled carbon nanotube nanocomposite. <i>Scripta Materialia</i> , <b>2009</b> , 61, 201-204	5.6	177
41	Microwave absorption properties of multiferroic BiFeO <sub>3</sub> nanoparticles. <i>Materials Letters</i> , <b>2009</b> , 63, 1344-1346	3.46	74
40	Influence of mechanical activation on combustion synthesis of fine silicon carbide (SiC) powder. <i>Powder Technology</i> , <b>2009</b> , 196, 229-232	5.2	29
39	Synthesis and magnetic properties of CdS/Fe <sub>2</sub> O <sub>3</sub> hierarchical nanostructures	<b>2009</b> , 52, 997-1002	4
38	Dual nonlinear dielectric resonance and nesting microwave absorption peaks of hollow cobalt nanochains composites with negative permeability. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 163108	3.4	295
37	Porous Fe <sub>3</sub> O <sub>4</sub> /SnO <sub>2</sub> Core/Shell Nanorods: Synthesis and Electromagnetic Properties. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 10061-10064	3.8	261
36	Synthesis and enhanced ethanol sensing characteristics of alpha-Fe <sub>2</sub> O <sub>3</sub> /SnO <sub>2</sub> core-shell nanorods. <i>Nanotechnology</i> , <b>2009</b> , 20, 045502	3.4	116
35	High dielectric loss and its monotonic dependence of conducting-dominated multiwalled carbon nanotubes/silica nanocomposite on temperature ranging from 373 to 873 K in X-band. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 233110	3.4	267
34	Mechanical reinforcement and piezoelectric properties of nanocomposites embedded with ZnO nanowhiskers. <i>Scripta Materialia</i> , <b>2008</b> , 59, 780-783	5.6	48
33	The synthesis and selective gas sensing characteristics of SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> hierarchical nanostructures. <i>Nanotechnology</i> , <b>2008</b> , 19, 205603	3.4	87
32	High-temperature dielectric properties and enhanced temperature-response attenuation of MnO <sub>2</sub> nanorods. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 223112	3.4	60
31	High capacity and excellent cycling stability of single-walled carbon nanotube/SnO <sub>2</sub> core-shell structures as Li-insertion materials. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 223101	3.4	66
30	Nonlinear resonant and high dielectric loss behavior of CdS/Fe <sub>2</sub> O <sub>3</sub> heterostructure nanocomposites. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 183118	3.4	123
29	Preparation and properties of ZnO nano-whiskers. <i>Science in China Series D: Earth Sciences</i> , <b>2008</b> , 51, 1433-1438		14

28	The influence of mechanochemical activation on combustion synthesis of Si <sub>3</sub> N <sub>4</sub> . <i>Ceramics International</i> , <b>2008</b> , 34, 1267-1271	5.1	14
27	The enhanced dielectric from basalt fibers/nickel core-shell structures synthesized by electroless plating. <i>Surface and Coatings Technology</i> , <b>2007</b> , 201, 7201-7206	4.4	23
26	Photoresponse of SnO <sub>2</sub> nanobelts grown in situ on interdigital electrodes. <i>Nanotechnology</i> , <b>2007</b> , 18, 2855-2862	5.0	46
25	Microwave absorption properties and mechanism of cage-like ZnO/BiO <sub>2</sub> nanocomposites. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 203110	3.4	226
24	Catalyst-free synthesis, growth mechanism and optical properties of multipod ZnO with nanonail-like legs. <i>Scripta Materialia</i> , <b>2006</b> , 54, 2057-2061	5.6	28
23	Investigation on Potential Microwave Absorbability of Polyester-composites Filled with Carbon Nanotubes <b>2006</b> ,		3
22	Sol-Gel Synthesis and Characterization of Nd <sup>3+</sup> Doped PZT Nanopowders Using a Novel System <b>2006</b> ,		1
21	Combustion oxidization synthesis of unique cage-like nanotetrapod ZnO and its optical property. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 2525-8	1.3	25
20	Nickel layer deposition on SiC nanoparticles by simple electroless plating and its dielectric behaviors. <i>Powder Technology</i> , <b>2006</b> , 168, 84-88	5.2	79
19	A nanoscale core-shell of BiCPNi prepared by electroless plating at lower temperature. <i>Surface and Coatings Technology</i> , <b>2006</b> , 201, 108-112	4.4	43
18	A general combustion approach to multipod ZnO and its characterization. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 2243-2248	4.3	16
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14	Synthesis process and growth mechanism of Y <sup>3+</sup> -Fe <sub>4</sub> N nanoparticles by phase- transformation. <i>Science in China Series D: Earth Sciences</i> , <b>2003</b> , 46, 104		10
13	Theoretical analysis of 2D acceleration laser sensor and several design parameters. <i>Optics and Laser Technology</i> , <b>2003</b> , 35, 345-348	4.2	4
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11	Electroless nickel plating on silicon carbide nanoparticles. <i>Surface and Coatings Technology</i> , <b>2003</b> , 172, 90-94	4.4	66

10	Matching design and mismatching analysis towards radar absorbing coatings based on conducting plate. <i>Materials &amp; Design</i> , <b>2003</b> , 24, 391-396		149
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8	Simulation of multiple composite coatings based on conducting plate and investigation of microwave reflectivity. <i>Microwave and Optical Technology Letters</i> , <b>2002</b> , 34, 442-445	1.2	9
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6	Two collinear anti-plane shear cracks in a piezoelectric layer bonded to dissimilar half spaces. <i>European Journal of Mechanics, A/Solids</i> , <b>2001</b> , 20, 213-226	3.7	15
5	Preparing $\alpha$ -Fe <sub>4</sub> N ultrafine powder by twice-nitriding method. <i>Powder Technology</i> , <b>2001</b> , 115, 96-98	5.2	27
4	Achieving superior GHz-absorption performance in VB-group laminated VS <sub>2</sub> microwave absorber with dielectric and magnetic synergy effects. <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	1
3	Initiating VB-Group Laminated NbS <sub>2</sub> Electromagnetic Wave Absorber toward Superior Absorption Bandwidth as Large as 6.48 GHz through Phase Engineering Modulation. <i>Advanced Functional Materials</i> , 2108194	15.6	29
2	Genetic Dielectric Genes Inside 2D Carbon-Based Materials with Tunable Electromagnetic Function at Elevated Temperature. <i>Small Structures</i> , 2100104	8.7	26
1	Graphene-wrapped multiloculated nickel ferrite: A highly efficient electromagnetic attenuation material for microwave absorbing and green shielding. <i>Nano Research</i> , 1	10	6