Mao-Sheng Cao

List of Publications by Year
in descending order

308	33,666	2543 96	4012 176
papers	citations	h-index	g-index

310	310	310	13355
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effects of temperature and frequency on the dielectric properties, electromagnetic interference shielding and microwave-absorption of short carbon fiber/silica composites. Carbon, 2010, 48, 788-796.	5.4	1,582
2	Reduced Graphene Oxides: Lightâ€Weight and Highâ€Efficiency Electromagnetic Interference Shielding at Elevated Temperatures. Advanced Materials, 2014, 26, 3484-3489.	11.1	1,375
3	Temperature dependent microwave attenuation behavior for carbon-nanotube/silica composites. Carbon, 2013, 65, 124-139.	5.4	1,009
4	Ferroferric Oxide/Multiwalled Carbon Nanotube vs Polyaniline/Ferroferric Oxide/Multiwalled Carbon Nanotube Multiheterostructures for Highly Effective Microwave Absorption. ACS Applied Materials & Interfaces, 2012, 4, 6949-6956.	4.0	823
5	Thermally Driven Transport and Relaxation Switching Selfâ€Powered Electromagnetic Energy Conversion. Small, 2018, 14, e1800987.	5.2	733
6	2D MXenes: Electromagnetic property for microwave absorption and electromagnetic interference shielding. Chemical Engineering Journal, 2019, 359, 1265-1302.	6.6	715
7	Enhanced Microwave Absorption Property of Reduced Graphene Oxide (RGO)-MnFe₂O₄ Nanocomposites and Polyvinylidene Fluoride. ACS Applied Materials & Interfaces, 2014, 6, 7471-7478.	4.0	694
8	Electromagnetic Response and Energy Conversion for Functions and Devices in Lowâ€Dimensional Materials. Advanced Functional Materials, 2019, 29, 1807398.	7.8	592
9	Ultrathin graphene: electrical properties and highly efficient electromagnetic interference shielding. Journal of Materials Chemistry C, 2015, 3, 6589-6599.	2.7	551
10	Graphene nanohybrids: excellent electromagnetic properties for the absorbing and shielding of electromagnetic waves. Journal of Materials Chemistry C, 2018, 6, 4586-4602.	2.7	512
11	Flexible graphene/polymer composite films in sandwich structures for effective electromagnetic interference shielding. Carbon, 2014, 66, 67-76.	5.4	473
12	Graphene/polyaniline nanorod arrays: synthesis and excellent electromagnetic absorption properties. Journal of Materials Chemistry, 2012, 22, 21679.	6.7	455
13	Temperature dependent microwave absorption of ultrathin graphene composites. Journal of Materials Chemistry C, 2015, 3, 10017-10022.	2.7	432
14	Confinedly implanted NiFe2O4-rGO: Cluster tailoring and highly tunable electromagnetic properties for selective-frequency microwave absorption. Nano Research, 2018, 11, 1426-1436.	5.8	430
15	Multi-wall carbon nanotubes decorated with ZnO nanocrystals: mild solution-process synthesis and highly efficient microwave absorption properties at elevated temperature. Journal of Materials Chemistry A, 2014, 2, 10540.	5.2	420
16	A facile fabrication and highly tunable microwave absorption of 3D flower-like Co3O4-rGO hybrid-architectures. Chemical Engineering Journal, 2018, 339, 487-498.	6.6	415
17	Confinedly tailoring Fe3O4 clusters-NG to tune electromagnetic parameters and microwave absorption with broadened bandwidth. Chemical Engineering Journal, 2018, 332, 321-330.	6.6	411
18	Porous Fe₃O₄/Carbon Core/Shell Nanorods: Synthesis and Electromagnetic Properties. Journal of Physical Chemistry C, 2011, 115, 13603-13608.	1.5	368

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19	NiO Hierarchical Nanorings on SiC: Enhancing Relaxation to Tune Microwave Absorption at Elevated Temperature. ACS Applied Materials & Interfaces, 2015, 7, 7073-7077.	4.0	359
20	Small magnetic nanoparticles decorating reduced graphene oxides to tune the electromagnetic attenuation capacity. Journal of Materials Chemistry C, 2016, 4, 7130-7140.	2.7	351
21	Two-dimensional nanosheets of MoS₂: a promising material with high dielectric properties and microwave absorption performance. Nanoscale, 2015, 7, 15734-15740.	2.8	335
22	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. Applied Physics Letters, 2009, 94, .	1.5	333
23	Multiscale Assembly of Grape-Like Ferroferric Oxide and Carbon Nanotubes: A Smart Absorber Prototype Varying Temperature to Tune Intensities. ACS Applied Materials & Interfaces, 2015, 7, 19408-19415.	4.0	330
24	Quaternary Nanocomposites Consisting of Graphene, Fe₃O₄@Fe Core@Shell, and ZnO Nanoparticles: Synthesis and Excellent Electromagnetic Absorption Properties. ACS Applied Materials & Interfaces, 2012, 4, 6436-6442.	4.0	329
25	Dual nonlinear dielectric resonance and nesting microwave absorption peaks of hollow cobalt nanochains composites with negative permeability. Applied Physics Letters, 2009, 95, .	1.5	325
26	Electromagnetic Property and Tunable Microwave Absorption of 3D Nets from Nickel Chains at Elevated Temperature. ACS Applied Materials & Interfaces, 2016, 8, 22615-22622.	4.0	307
27	Enhanced Dielectric Properties and Excellent Microwave Absorption of SiC Powders Driven with NiO Nanorings. Advanced Optical Materials, 2014, 2, 214-219.	3.6	290
28	Variableâ€Temperature Electron Transport and Dipole Polarization Turning Flexible Multifunctional Microsensor beyond Electrical and Optical Energy. Advanced Materials, 2020, 32, e1907156.	11.1	288
29	3D Fe₃O₄ nanocrystals decorating carbon nanotubes to tune electromagnetic properties and enhance microwave absorption capacity. Journal of Materials Chemistry A, 2015, 3, 12621-12625.	5.2	284
30	Porous Fe₃O₄/SnO₂ Core/Shell Nanorods: Synthesis and Electromagnetic Properties. Journal of Physical Chemistry C, 2009, 113, 10061-10064.	1.5	281
31	Temperature- and thickness-dependent electrical conductivity of few-layer graphene and graphene nanosheets. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2245-2251.	0.9	276
32	Highly ordered porous carbon/wax composites for effective electromagnetic attenuation and shielding. Carbon, 2014, 77, 130-142.	5.4	271
33	Diverse Metalâ€“Organic Framework Architectures for Electromagnetic Absorbers and Shielding. Advanced Functional Materials, 2021, 31, 2100470.	7.8	271
34	Chemical reduction dependent dielectric properties and dielectric loss mechanism of reduced graphene oxide. Carbon, 2018, 127, 209-217.	5.4	268
35	Enhanced wave absorption of nanocomposites based on the synthesized complex symmetrical CuS nanostructure and poly(vinylidene fluoride). Journal of Materials Chemistry A, 2013, 1, 4685.	5.2	264
36	Assembling Nanoâ€“Microarchitecture for Electromagnetic Absorbers and Smart Devices. Advanced Materials, 2020, 32, e2002112.	11.1	259

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37	Synthesis, Multi-Nonlinear Dielectric Resonance, and Excellent Electromagnetic Absorption Characteristics of Fe₃O₄/ZnO Core/Shell Nanorods. Journal of Physical Chemistry C, 2010, 114, 9239-9244.	1.5	254
38	Controllable fabrication of mono-dispersed RGOâ€“hematite nanocomposites and their enhanced wave absorption properties. Journal of Materials Chemistry A, 2013, 1, 5996.	5.2	251
39	Microwave absorption properties and mechanism of cagelike ZnOâ•SiO2 nanocomposites. Applied Physics Letters, 2007, 91, .	1.5	249
40	Polymer-composite with high dielectric constant and enhanced absorption properties based on grapheneâ€“CuS nanocomposites and polyvinylidene fluoride. Journal of Materials Chemistry A, 2013, 1, 12115.	5.2	226
41	Enhanced permittivity and multi-region microwave absorption of nanoneedle-like ZnO in the X-band at elevated temperature. Journal of Materials Chemistry C, 2015, 3, 4670-4677.	2.7	224
42	Tuning three-dimensional textures with graphene aerogels for ultra-light flexible graphene/texture composites of effective electromagnetic shielding. Carbon, 2015, 93, 151-160.	5.4	213
43	Magnetic and conductive graphene papers toward thin layers of effective electromagnetic shielding. Journal of Materials Chemistry A, 2015, 3, 2097-2107.	5.2	208
44	Eco-mimetic nanoarchitecture for green EMI shielding. Chemical Engineering Journal, 2019, 369, 1068-1077.	6.6	205
45	High-temperature microwave absorption and evolutionary behavior of multiwalled carbon nanotube nanocomposite. Scripta Materialia, 2009, 61, 201-204.	2.6	204
46	Self-assembling flexible 2D carbide MXene film with tunable integrated electron migration and group relaxation toward energy storage and green EMI shielding. Carbon, 2020, 157, 80-89.	5.4	204
47	Grapheneâ€“Fe3O4 nanohybrids: Synthesis and excellent electromagnetic absorption properties. Journal of Applied Physics, 2013, 113, .	1.1	203
48	A Nano-Micro Engineering Nanofiber for Electromagnetic Absorber, Green Shielding and Sensor. Nano-Micro Letters, 2021, 13, 27.	14.4	200
49	Interfacial Engineering of Carbon Nanofiberâ€“Grapheneâ€“Carbon Nanofiber Heterojunctions in Flexible Lightweight Electromagnetic Shielding Networks. ACS Applied Materials & Interfaces, 2014, 6, 10516-10523.	4.0	198
50	Strong and thermostable polymeric graphene/silica textile for lightweight practical microwave absorption composites. Carbon, 2016, 100, 109-117.	5.4	195
51	Molecular Patching Engineering to Drive Energy Conversion as Efficient and Environmentâ€Friendly Cell toward Wireless Power Transmission. Advanced Functional Materials, 2020, 30, 1908299.	7.8	194
52	Tailoring MOF-based materials to tune electromagnetic property for great microwave absorbers and devices. Carbon, 2020, 162, 157-171.	5.4	189
53	Atomic Layer Tailoring Titanium Carbide MXene To Tune Transport and Polarization for Utilization of Electromagnetic Energy beyond Solar and Chemical Energy. ACS Applied Materials & Interfaces, 2019, 11, 12535-12543.	4.0	187
54	Electrospinning and in-situ hierarchical thermal treatment to tailor Câ€“NiCo2O4 nanofibers for tunable microwave absorption. Carbon, 2021, 171, 953-962.	5.4	185

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55	Lightweight and High-Performance Microwave Absorber Based on 2D WS2â€“RGO Heterostructures. Nano-Micro Letters, 2019, 11, 38.	14.4	176
56	Electronic Structure and Electromagnetic Properties for 2D Electromagnetic Functional Materials in Gigahertz Frequency. Annalen Der Physik, 2019, 531, 1800390.	0.9	173
57	Electromagnetic absorber converting radiation for multifunction. Materials Science and Engineering Reports, 2021, 145, 100627.	14.8	169
58	Tailoring Ti₃C₂T_xnanosheets to tune local conductive network as an environmentally friendly material for highly efficient electromagnetic interference shielding. Nanoscale, 2019, 11, 6080-6088.	2.8	168
59	Matching design and mismatching analysis towards radar absorbing coatings based on conducting plate. Materials & Design, 2003, 24, 391-396.	5.1	163
60	Facile fabrication of ultrathin graphene papers for effective electromagnetic shielding. Journal of Materials Chemistry C, 2014, 2, 5057-5064.	2.7	159
61	A green fabrication and variable temperature electromagnetic properties for thermal stable microwave absorption towards flower-like Co3O4@rGO/SiO2 composites. Composites Part B: Engineering, 2019, 166, 187-195.	5.9	158
62	Genetic Dielectric Genes Inside 2D Carbonâ€Based Materials with Tunable Electromagnetic Function at Elevated Temperature. Small Structures, 2021, 2, 2100104.	6.9	157
63	Heterogeneous pâ€“n Junction CdS/Cu₂O Nanorod Arrays: Synthesis and Superior Visible-Light-Driven Photoelectrochemical Performance for Hydrogen Evolution. ACS Applied Materials & Interfaces, 2018, 10, 11652-11662.	4.0	154
64	Unusual continuous dual absorption peaks in Ca-doped BiFeO₃nanostructures for broadened microwave absorption. Nanoscale, 2016, 8, 10415-10424.	2.8	147
65	Initiating VBâ€Group Laminated NbS₂ Electromagnetic Wave Absorber toward Superior Absorption Bandwidth as Large as 6.48ÂGHz through Phase Engineering Modulation. Advanced Functional Materials, 2022, 32, 2108194.	7.8	147
66	Controllable synthesis of uniform ZnO nanorods and their enhanced dielectric and absorption properties. Journal of Materials Chemistry A, 2014, 2, 8644-8651.	5.2	141
67	Synergetic dielectric loss and magnetic loss towards superior microwave absorption through hybridization of few-layer WS2 nanosheets with NiO nanoparticles. Science Bulletin, 2020, 65, 138-146.	4.3	139
68	Thermally-tailoring dielectric â€œgenesâ€•in graphene-based heterostructure to manipulate electromagnetic response. Carbon, 2021, 184, 136-145.	5.4	139
69	Nonlinear resonant and high dielectric loss behavior of CdSâˆ•Î±-Fe2O3 heterostructure nanocomposites. Applied Physics Letters, 2008, 93, 183118.	1.5	137
70	Assembling 3D flower-like Co3O4-MWCNT architecture for optimizing low-frequency microwave absorption. Carbon, 2021, 174, 638-646.	5.4	134
71	Silicon carbide powders: Temperature-dependent dielectric properties and enhanced microwave absorption at gigahertz range. Solid State Communications, 2013, 163, 1-6.	0.9	133
72	High-performance microwave absorption enabled by Co3O4 modified VB-group laminated VS2 with frequency modulation from S-band to Ku-band. Journal of Materials Science and Technology, 2022, 107, 155-164.	5.6	133

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73	Nd doping of bismuth ferrite to tune electromagnetic properties and increase microwave absorption by magneticâ€“dielectric synergy. Journal of Materials Chemistry C, 2015, 3, 9276-9282.	2.7	129
74	Polarization enhancement of microwave absorption by increasing aspect ratio of ellipsoidal nanorattles with Fe₃O₄ cores and hierarchical CuSiO₃ shells. Nanoscale, 2014, 6, 5782-5790.	2.8	126
75	Improving the antistatic ability of polypropylene fibers by inner antistatic agent filled with carbon nanotubes. Composites Science and Technology, 2004, 64, 2089-2096.	3.8	124
76	Synthesis of zinc oxide particles coated multiwalled carbon nanotubes: Dielectric properties, electromagnetic interference shielding and microwave absorption. Materials Research Bulletin, 2012, 47, 1747-1754.	2.7	122
77	Fabrication of multi-functional PVDF/RGO composites via a simple thermal reduction process and their enhanced electromagnetic wave absorption and dielectric properties. RSC Advances, 2014, 4, 19594-19601.	1.7	122
78	Carbon nanotube-CdS coreâ€“shell nanowires with tunable and high-efficiency microwave absorption at elevated temperature. Nanotechnology, 2016, 27, 065702.	1.3	120
79	Synthesis and enhanced ethanol sensing characteristics of Î±-Fe₂O₃SnO₂coreâ€“shell nanorods. Nanotechnology, 2009, 20, 045502.	1.3	119
80	Self-Assembly Construction of WS₂â€“rGO Architecture with Green EMI Shielding. ACS Applied Materials & Interfaces, 2019, 11, 26807-26816.	4.0	117
81	Conductive WS2-NS/CNTs hybrids based 3D ultra-thin mesh electromagnetic wave absorbers with excellent absorption performance. Applied Surface Science, 2020, 528, 147052.	3.1	116
82	One-step fabrication of N-doped CNTs encapsulating M nanoparticles (Mâ€“=â€“Fe, Co, Ni) for efficient microwave absorption. Applied Surface Science, 2018, 447, 244-253.	3.1	115
83	Developing MXenes from Wireless Communication to Electromagnetic Attenuation. Nano-Micro Letters, 2021, 13, 115.	14.4	115
84	Green Approach to Conductive PEDOT:PSS Decorating Magnetic-Graphene to Recover Conductivity for Highly Efficient Absorption. ACS Sustainable Chemistry and Engineering, 2018, 6, 14017-14025.	3.2	113
85	Wire-in-tube ZnO@carbon by molecular layer deposition: Accurately tunable electromagnetic parameters and remarkable microwave absorption. Chemical Engineering Journal, 2020, 382, 122860.	6.6	113
86	Solâ€“gel synthesis of Nd-doped BiFeO3 multiferroic and its characterization. Ceramics International, 2015, 41, 8768-8772.	2.3	112
87	Implantation of WSe2 nanosheets into multi-walled carbon nanotubes for enhanced microwave absorption. Journal of Colloid and Interface Science, 2022, 609, 746-754.	5.0	110
88	Phase diagram and properties of Pb(In1/2Nb1/2)O3â€“Pb(Mg1/3Nb2/3)O3â€“PbTiO3 polycrystalline ceramics. Journal of the European Ceramic Society, 2012, 32, 433-439.	2.8	109
89	The enhanced polarization relaxation and excellent high-temperature dielectric properties of N-doped SiC. Applied Physics Letters, 2014, 104, .	1.5	109
90	Polymer composites with enhanced wave absorption properties based on modified graphite and polyvinylidene fluoride. Journal of Materials Chemistry A, 2013, 1, 7031.	5.2	105

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91	Electromagnetic Functions of Patterned 2D Materials for Microâ€“Nano Devices Covering GHz, THz, and Optical Frequency. Advanced Optical Materials, 2019, 7, 1900689.	3.6	105
92	Light-weight and low-cost electromagnetic wave absorbers with high performances based on biomass-derived reduced graphene oxides. Nanotechnology, 2019, 30, 445708.	1.3	104
93	Hierarchical three-dimensional flower-like Co3O4 architectures with a mesocrystal structure as high capacity anode materials for long-lived lithium-ion batteries. Nano Research, 2018, 11, 1437-1446.	5.8	102
94	A wearable microwave absorption cloth. Journal of Materials Chemistry C, 2017, 5, 2432-2441.	2.7	100
95	Graphene-wrapped multiloculated nickel ferrite: A highly efficient electromagnetic attenuation material for microwave absorbing and green shielding. Nano Research, 2022, 15, 6751-6760.	5.8	100
96	Improved dielectric properties and highly efficient and broadened bandwidth electromagnetic attenuation of thickness-decreased carbon nanosheet/wax composites. Journal of Materials Chemistry C, 2013, 1, 1846.	2.7	98
97	Enhanced photoelectrochemical properties of ZnO/ZnSe/CdSe/Cu 2-x Se coreâ€“shell nanowire arrays fabricated by ion-replacement method. Applied Catalysis B: Environmental, 2017, 209, 110-117.	10.8	98
98	Ultrathin Topological Insulator Absorber: Unique Dielectric Behavior of Bi₂Te₃ Nanosheets Based on Conducting Surface States. ACS Applied Materials & Interfaces, 2019, 11, 33285-33291.	4.0	94
99	The synthesis and selective gas sensing characteristics of SnO₂Î±-Fe₂O₃hierarchical nanostructures. Nanotechnology, 2008, 19, 205603.	1.3	91
100	Highly Efficient Microwave Absorption of Magnetic Nanospindleâ€“Conductive Polymer Hybrids by Molecular Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 11116-11125.	4.0	91
101	Multifunctional BiFeO3 composites: Absorption attenuation dominated effective electromagnetic interference shielding and electromagnetic absorption induced by multiple dielectric and magnetic relaxations. Composites Science and Technology, 2018, 159, 240-250.	3.8	90
102	Highly efficient microwave absorption properties and broadened absorption bandwidth of MoS2-iron oxide hybrids and MoS2-based reduced graphene oxide hybrids with Hetero-structures. Applied Surface Science, 2018, 462, 872-882.	3.1	90
103	Effects of hydroxyl groups and hydrogen passivation on the structure, electrical and optical properties of silicon carbide nanowires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126106.	0.9	88
104	Computation design and performance prediction towards a multi-layer microwave absorber. Materials & Design, 2002, 23, 557-564.	5.1	87
105	Alignment of graphene sheets in wax composites for electromagnetic interference shielding improvement. Nanotechnology, 2013, 24, 115708.	1.3	87
106	Customizing coaxial stacking VS₂ nanosheets for dual-band microwave absorption with superior performance in the C- and K_u-bands. Journal of Materials Chemistry C, 2020, 8, 5923-5933.	2.7	86
107	Green building materials lit up by electromagnetic absorption function: A review. Journal of Materials Science and Technology, 2022, 112, 329-344.	5.6	86
108	Regulating bifunctional flower-like NiFe2O4/graphene for green EMI shielding and lithium ion storage. Journal of Materials Science and Technology, 2022, 127, 48-60.	5.6	86

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109	Nickel layer deposition on SiC nanoparticles by simple electroless plating and its dielectric behaviors. Powder Technology, 2006, 168, 84-88.	2.1	85
110	Enhancing electromagnetic wave absorption performance of Co3O4 nanoparticles functionalized MoS2 nanosheets. Journal of Alloys and Compounds, 2020, 829, 154531.	2.8	85
111	Microwave absorption properties of multiferroic BiFeO3 nanoparticles. Materials Letters, 2009, 63, 1344-1346.	1.3	84
112	Multiple electrical response and enhanced energy storage induced by unusual coexistent-phase structure in relaxor ferroelectric ceramics. Acta Materialia, 2018, 146, 202-210.	3.8	83
113	Enhanced ferromagnetism and microwave absorption properties of BiFeO3 nanocrystals with Ho substitution. Materials Letters, 2012, 84, 110-113.	1.3	82
114	Coaxial multi-interface hollow Ni-Al2O3-ZnO nanowires tailored by atomic layer deposition for selective-frequency absorptions. Nano Research, 2017, 10, 1595-1607.	5.8	82
115	Microwave synthesis of Al-doped SiC powders and study of their dielectric properties. Materials Research Bulletin, 2010, 45, 247-250.	2.7	80
116	Preparation and microwave absorption properties of basalt fiber/nickel coreâ€“shell heterostructures. Journal of Alloys and Compounds, 2010, 495, 254-259.	2.8	80
117	Metal-organic frameworks based photocatalysts: Architecture strategies for efficient solar energy conversion. Chemical Engineering Journal, 2021, 419, 129459.	6.6	78
118	Polymer/carbon nanocomposites for enhanced thermal transport properties â€“ carbon nanotubes versus graphene sheets as nanoscale fillers. Journal of Materials Chemistry, 2012, 22, 17133.	6.7	77
119	Controllable Fabrication of CuS Hierarchical Nanostructures and Their Optical, Photocatalytic, and Wave Absorption Properties. ChemPlusChem, 2013, 78, 250-258.	1.3	77
120	High-performance microwave absorption materials based on MoS 2 -graphene isomorphic hetero-structures. Journal of Alloys and Compounds, 2018, 758, 62-71.	2.8	77
121	Tailoring rGO-NiFe2O4 hybrids to tune transport of electrons and ions for supercapacitor electrodes. Journal of Alloys and Compounds, 2019, 811, 152011.	2.8	77
122	Vertically implanting MoSe2 nanosheets on the RGO sheets towards excellent multi-band microwave absorption. Carbon, 2022, 197, 324-333.	5.4	77
123	Fabrication of Reduced Graphene Oxide (RGO)/Co₃O₄ Nanohybrid Particles and a RGO/Co₃O₄/Poly(vinylidene fluoride) Composite with Enhanced Waveâ€Absorption Properties. ChemPlusChem, 2014, 79, 375-381.	1.3	76
124	High-efficiency and dynamic stable electromagnetic wave attenuation for La doped bismuth ferrite at elevated temperature and gigahertz frequency. RSC Advances, 2015, 5, 77184-77191.	1.7	76
125	Ni-decorated SiC powders: Enhanced high-temperature dielectric properties and microwave absorption performance. Powder Technology, 2013, 237, 309-313.	2.1	75
126	Biomass-derived carbon-coated WS2 core-shell nanostructures with excellent electromagnetic absorption in C-band. Applied Surface Science, 2022, 577, 151939.	3.1	75

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127	Thermal frequency shift and tunable microwave absorption in BiFeO3 family. Scientific Reports, 2016, 6, 24837.	1.6	74
128	Adsorption of Na on intrinsic, B-doped, N-doped and vacancy graphenes: A first-principles study. Computational Materials Science, 2014, 85, 179-185.	1.4	73
129	Electroless nickel plating on silicon carbide nanoparticles. Surface and Coatings Technology, 2003, 172, 90-94.	2.2	72
130	Investigation of Ternary System <scp><scp>PbHfO</scp></scp>₃â€“<scp><scp>PbTiO</scp></scp>₃â€“<scp><scp>Pb</scp></scp>(<scp><scp>Mg_{1/3}Nb_{2/3}</scp></scp>)<scp><scp>O</scp></scp>₃ with Morphotropic Phase Boundary Compositions. Journal of the American Ceramic Society, 2012, 95, 3220-3228.	1.9	71
131	Recent progress in two-dimensional materials for microwave absorption applications. Chemical Engineering Journal, 2021, 425, 131558.	6.6	71
132	High capacity and excellent cycling stability of single-walled carbon nanotube/SnO2 core-shell structures as Li-insertion materials. Applied Physics Letters, 2008, 92, .	1.5	69
133	Novel MOF-derived 3D hierarchical needlelike array architecture with excellent EMI shielding, thermal insulation and supercapacitor performance. Nanoscale, 2022, 14, 7322-7331.	2.8	69
134	Low-temperature densification of TiB2 ceramic by the spark plasma sintering process with Ti as a sintering aid. Scripta Materialia, 2012, 66, 167-170.	2.6	68
135	High-temperature dielectric properties and enhanced temperature-response attenuation of Î²-MnO2 nanorods. Applied Physics Letters, 2008, 93, 223112.	1.5	65
136	Electrical conductivity and microwave absorption of shortened multi-walled carbon nanotube/alumina ceramic composites. Ceramics International, 2013, 39, 5979-5983.	2.3	63
137	Construction of low-frequency and high-efficiency electromagnetic wave absorber enabled by texturing rod-like TiO2 on few-layer of WS2 nanosheets. Applied Surface Science, 2021, 548, 149158.	3.1	63
138	MXene-CNT/PANI ternary material with excellent supercapacitive performance driven by synergy. Journal of Alloys and Compounds, 2021, 868, 159159.	2.8	62
139	Effect of surface dangling bonds on transport properties of phosphorous doped SiC nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 104, 247-253.	1.3	61
140	Oxidizing annealing effects on VO2 films with different microstructures. Applied Surface Science, 2015, 345, 232-237.	3.1	59
141	Microwave permittivity and permeability experiments in high-loss dielectrics: Caution with implicit Fabry-PÃ©rot resonance for negative imaginary permeability. Applied Physics Letters, 2013, 103, .	1.5	58
142	Self-Assembling VO₂ Nanonet with High Switching Performance at Wafer-Scale. Chemistry of Materials, 2015, 27, 7419-7424.	3.2	58
143	Effect of ZnO whisker content on sinterability and fracture behaviour of PZT peizoelectric composites. Journal of Alloys and Compounds, 2010, 504, 123-128.	2.8	56
144	Tuning broadband microwave absorption via highly conductive Fe3O4/graphene heterostructural nanofillers. Materials Research Bulletin, 2015, 72, 316-323.	2.7	55

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145	Mechanical reinforcement and piezoelectric properties of nanocomposites embedded with ZnO nanowhiskers. Scripta Materialia, 2008, 59, 780-783.	2.6	54
146	Production of Ni-Doped SiC Nanopowders and their Dielectric Properties. Journal of the American Ceramic Society, 2011, 94, 1523-1527.	1.9	54
147	Microwave responses and general model of nanotetraneedle ZnO: Integration of interface scattering, microcurrent, dielectric relaxation, and microantenna. Journal of Applied Physics, 2010, 107, 054304.	1.1	53
148	Morphology-controlled synthesis and growth mechanism of lead-free bismuth sodium titanate nanostructures via the hydrothermal route. CrystEngComm, 2013, 15, 3984.	1.3	52
149	Evolution of Structural and Electrical Properties of Oxygen-Deficient VO₂ under Low Temperature Heating Process. ACS Applied Materials & Interfaces, 2017, 9, 27135-27141.	4.0	52
150	Transport and recombination properties of group-III doped SiCNTs. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 128, 114578.	1.3	52
151	High-temperature conductance loss dominated defect level in h-BN: Experiments and first principles calculations. Journal of Applied Physics, 2009, 105, .	1.1	50
152	Engineering flexible and green electromagnetic interference shielding materials with high performance through modulating WS2 nanosheets on carbon fibers. Journal of Materiomics, 2022, 8, 327-334.	2.8	50
153	Photoresponse of SnO2nanobelts grownin situon interdigital electrodes. Nanotechnology, 2007, 18, 285502.	1.3	49
154	Synthesis and growth mechanism of 3D Î±-MnO2 clusters and their application in polymer composites with enhanced microwave absorption properties. RSC Advances, 2013, 3, 18009.	1.7	49
155	High dielectric loss and microwave absorption behavior of multiferroic BiFeO 3 ceramic. Ceramics International, 2013, 39, 7241-7246.	2.3	49
156	Flexible Semitransparent Energy Harvester with High Pressure Sensitivity and Power Density Based on Laterally Aligned PZT Single-Crystal Nanowires. ACS Applied Materials & Interfaces, 2017, 9, 24696-24703.	4.0	48
157	Structure, ferromagnetism and microwave absorption properties of La substituted BiFeO3 nanoparticles. Materials Letters, 2013, 111, 130-133.	1.3	47
158	Structural stability, electronic and optical properties of Ni-doped 3Câ€“SiC by first principles calculation. Journal of Alloys and Compounds, 2011, 509, 6117-6122.	2.8	46
159	Enhanced microwave absorption performance of polyaniline-coated CNT hybrids by plasma-induced graft polymerization. Applied Physics A: Materials Science and Processing, 2015, 119, 379-386.	1.1	46
160	Enhanced microwave absorption properties of Co-doped SiC at elevated temperature. Applied Surface Science, 2018, 445, 383-390.	3.1	46
161	A nanoscale core-shell of Î²-SiCPâ€“Ni prepared by electroless plating at lower temperature. Surface and Coatings Technology, 2006, 201, 108-112.	2.2	45
162	Magnetic-field-induced dielectric behaviors and magneto-electrical coupling of multiferroic compounds containing cobalt ferrite/barium calcium titanate composite fibers. Journal of Alloys and Compounds, 2018, 740, 1067-1076.	2.8	45

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