Bin Quan

List of Publications by Citations

58	3,685	30	59
papers	citations	h-index	g-index
59	4,539	7.1	5.91
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
58	Metal□rganic-frameworks derived porous carbon-wrapped Ni composites with optimized impedance matching as excellent lightweight electromagnetic wave absorber. *Chemical Engineering Journal*, **2017**, 313, 734-744	14.7	381
57	Thermal conversion of an Fe□□@metal-organic framework: a new method for an efficient Fe-Co/nanoporous carbon microwave absorbing material. *Nanoscale*, **2015**, 7, 12932-42	7.7	366
56	Defect Engineering in Two Common Types of Dielectric Materials for Electromagnetic Absorption Applications. *Advanced Functional Materials*, **2019**, 29, 1901236	15.6	285
55	Dielectric polarization in electromagnetic wave absorption: Review and perspective. *Journal of Alloys and Compounds*, **2017**, 728, 1065-1075	5.7	240
54	Strong Electromagnetic Wave Response Derived from the Construction of Dielectric/Magnetic Media Heterostructure and Multiple Interfaces. *ACS Applied Materials & Interfaces*, **2017**, 9, 9964-9974	9.5	206
53	Environment-Stable CoNi Encapsulation in Stacked Porous Carbon Nanosheets for Enhanced Microwave Absorption. *Nano-Micro Letters*, **2020**, 12, 102	19.5	144
52	From intrinsic dielectric loss to geometry patterns: Dual-principles strategy for ultrabroad band microwave absorption. *Nano Research*, **2021**, 14, 1495-1501	10	121
51	Cross-Linking-Derived Synthesis of Porous CoNi/C Nanocomposites for Excellent Electromagnetic Behaviors. *ACS Applied Materials & Interfaces*, **2017**, 9, 38814-38823	9.5	119
50	Laminated graphene oxide-supported high-efficiency microwave absorber fabricated by an in situ growth approach. *Carbon*, **2018**, 129, 310-320	10.4	113
49	A permittivity regulating strategy to achieve high-performance electromagnetic wave absorbers with compatibility of impedance matching and energy conservation. *New Journal of Chemistry*, **2017**, 41, 1259-1266	3.6	109
48	Porous-carbon-based MoC nanocomposites as excellent microwave absorber: a new exploration. *Nanoscale*, **2018**, 10, 6945-6953	7.7	107
47	Structural and Carbonized Design of 1D FeNi/C Nanofibers with Conductive Network to Optimize Electromagnetic Parameters and Absorption Abilities. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 7239-7249	8.3	104
46	Tunable Dielectric Performance Derived from the Metal□rganic Framework/Reduced Graphene Oxide Hybrid with Broadband Absorption. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 10570-10579	8.3	103
45	Lightweight Fe3C@Fe/C nanocomposites derived from wasted cornstalks with high-efficiency microwave absorption and ultrathin thickness. *Advanced Composites and Hybrid Materials*, **2021**, 4, 1226	8.7	93
44	Novel nanoporous carbon derived from metal□rganic frameworks with tunable electromagnetic wave absorption capabilities. *Inorganic Chemistry Frontiers*, **2016**, 3, 1516-1526	6.8	93
43	Self-Assembly Three-Dimensional Porous Carbon Networks for Efficient Dielectric Attenuation. *ACS Applied Materials & Interfaces*, **2019**, 11, 30228-30233	9.5	84
42	Incorporation of dielectric constituents to construct ternary heterojunction structures for high-efficiency electromagnetic response. *Journal of Colloid and Interface Science*, **2017**, 498, 161-169	9.3	66

41	Functionalized Carbon Nanofibers Enabling Stable and Flexible Absorbers with Effective Microwave Response at Low Thickness. *ACS Applied Materials & Interfaces*, **2018**, 10, 41535-41543	9.5	65
40	A facile self-template strategy for synthesizing 1D porous Ni@C nanorods towards efficient microwave absorption. *Nanotechnology*, **2017**, 28, 115704	3.4	64
39	Multiple Interfaces Structure Derived from Metal□Organic Frameworks for Excellent Electromagnetic Wave Absorption. *Particle and Particle Systems Characterization*, **2017**, 34, 1700006	3.1	62
38	Nanoporous TiO2/C composites synthesized from directly pyrolysis of a Ti-based MOFs MIL-125(Ti) for efficient microwave absorption. *Journal of Alloys and Compounds*, **2017**, 728, 138-144	5.7	61
37	Achieving better impedance matching by a sulfurization method through converting Ni into NiS/Ni3S4 composites. *Journal of Materials Chemistry C*, **2018**, 6, 1822-1828	7.1	58
36	Switching the electromagnetic properties of multicomponent porous carbon materials derived from bimetallic metal-organic frameworks: effect of composition. *Dalton Transactions*, **2017**, 46, 3700-3709	4.3	49
35	Achieving MOF-derived one-dimensional porous ZnO/C nanofiber with lightweight and enhanced microwave response by an electrospinning method. *Journal of Alloys and Compounds*, **2019**, 806, 983-991	5.7	47
34	Quasi-noble-metal graphene quantum dots deposited stannic oxide with oxygen vacancies: Synthesis and enhanced photocatalytic properties. *Journal of Colloid and Interface Science*, **2016**, 481, 13-9	9.3	40
33	Composition and Structure Design of Co3O4 Nanowires Network by Nickel Foam with Effective Electromagnetic Performance in C and X Band. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5543-5552	8.3	38
32	Achieving the interfacial polarization on C/FeC heterojunction structures for highly efficient lightweight microwave absorption. *Journal of Colloid and Interface Science*, **2017**, 508, 462-468	9.3	32
31	Cobalt nanoparticles embedded nitrogen-doped porous graphitized carbon composites with enhanced microwave absorption performance. *Journal of Colloid and Interface Science*, **2019**, 533, 297-303	9.3	32
30	One-step synthesis of Ti3+ doped TiO2 single anatase crystals with enhanced photocatalytic activity towards degradation of methylene blue. *Materials Letters*, **2016**, 162, 138-141	3.3	31
29	Nano [email□protected] Layer on Porous Carbon Nanofibers with Multiple Interfaces for Microwave Absorption Applications. *ACS Applied Nano Materials*, **2018**, 1, 5712-5721	5.6	30
28	Magnetic and electromagnetic properties of Fe3O4/Fe composites prepared by a simple one-step ball-milling. *Journal of Alloys and Compounds*, **2017**, 708, 587-593	5.7	28
27	A facile one-pot strategy for fabrication of carbon-based microwave absorbers: effects on annealing and paraffin content. *Dalton Transactions*, **2017**, 46, 9097-9102	4.3	23
26	Evolution of dielectric loss-dominated electromagnetic patterns in magnetic absorbers for enhanced microwave absorption performances. *Nano Research*, **2021**, 14, 4006	10	21
25	Extended Effective Frequency of Three-Dimensional Graphene with Sustainable Energy Attenuation. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 10477-10483	8.3	20
24	Strong electric wave response derived from the hybrid of lotus roots-like composites with tunable permittivity. *Scientific Reports*, **2017**, 7, 9462	4.9	19

23	Enhanced electromagnetic wave response of nickel nanoparticles encapsulated in nanoporous carbon. *Journal of Alloys and Compounds*, **2018**, 769, 961-968	5.7	17
22	Application of unit polarization strategy to achieve high-performance electromagnetic absorption by designing ternary SiO2@TiO2-C composite. *Journal of Alloys and Compounds*, **2017**, 709, 796-801	5.7	16
21	Optimizing electromagnetic wave absorption performance: Design from microscopic bamboo carbon nanotubes to macroscopic patterns. *Journal of Alloys and Compounds*, **2019**, 809, 151866	5.7	16
20	Incorporation of the polarization point on the graphene aerogel to achieve strong dielectric loss behavior. *Journal of Colloid and Interface Science*, **2017**, 504, 479-484	9.3	16
19	Constructing multi-interface MoC/Co@C nanorods for a microwave response based on a double attenuation mechanism. *Dalton Transactions*, **2018**, 47, 14767-14773	4.3	16
18	3D Flake-Like Bi2Te3 with Outstanding Lightweight Electromagnetic Wave Absorption Feature. *Particle and Particle Systems Characterization*, **2018**, 35, 1700468	3.1	15
17	Thermal conversion of wheat-like metal organic frameworks to achieve MgO/carbon composites with tunable morphology and microwave response. *Journal of Materials Chemistry C*, **2018**, 6, 11659-11665	7.1	14
16	Structural dependence of the microwave dielectric properties of Cr3+-substituted ZnGa2O4 spinel ceramics: crystal distortion and vibration mode studies. *Journal of Materials Chemistry C*, **2019**, 7, 8261-8268	7.1	13
15	Compositional tailoring effect on ZnGa2O4-TiO2 ceramics for tunable microwave dielectric properties. *Journal of Alloys and Compounds*, **2019**, 792, 742-749	5.7	13
14	Nano sulfur particles decorated bi-lamella composites for superior electromagnetic wave absorption. *Journal of Colloid and Interface Science*, **2019**, 543, 138-146	9.3	13
13	Excellent microwave response derived from the construction of dielectric-loss 1D nanostructure. *Nanotechnology*, **2018**, 29, 195603	3.4	13
12	Constructing hierarchical porous nanospheres for versatile microwave response approaches: the effect of architectural design. *Dalton Transactions*, **2017**, 46, 14264-14269	4.3	11
11	Interfacial polarizations induced by incorporating traditional perovskites into reduced graphene oxide (RGO) for strong microwave response. *Dalton Transactions*, **2019**, 48, 2359-2366	4.3	11
10	Zinc oxide/nanoporous carbon hybrid materials derived from metal–organic frameworks with different dielectric and absorption performances. *Inorganic Chemistry Frontiers*, **2019**, 6, 2521-2527	6.8	11
9	Integrating carbonyl iron with sponge to enable lightweight and dual-frequency absorption. *Nanotechnology*, **2019**, 30, 195703	3.4	8
8	Energetic metal-organic frameworks deflagration enabled ultrafast low-temperature synthesis of ultra-light magnetic nanoparticles decorated high-lossy materials. *Carbon*, **2020**, 165, 286-295	10.4	6
7	Multiple interface-induced evolution of electromagnetic patterns for efficient microwave absorption at low thickness. *Inorganic Chemistry Frontiers*, **2021**, 8, 1810-1818	6.8	6
6	Investigating the synergistic impedance match and attenuation effect of Co@C composite through adjusting the permittivity and permeability. *Materials Research Express*, **2017**, 4, 035604	1.7	5

5	Preparation of Si/TiO2 Heterojunction Nanotube Arrays via Electrodeposition and Their Enhanced Photocatalytic Activity. *Nanoscience and Nanotechnology Letters*, **2015**, 7, 840-845	0.8	4
4	Organic–inorganic hybrid-reinforced flexible and robust 2D papers for high-efficiency microwave-absorbing films. *Journal of Materials Chemistry A*,	13	3
3	Conductive substrates-based component tailoring via thermal conversion of metal organic framework for enhanced microwave absorption performances. *Journal of Colloid and Interface Science*, **2021**, 608, 1323-1333	9.3	2
2	Sc modification induced short-range cation ordering and high microwave dielectric performance in ZnGa2O4 spinel ceramics. *Journal of Alloys and Compounds*, **2021**, 873, 159758	5.7	2
1	Double dielectric modification of nickel foam-based microwave absorbers with improved impedance matching and absorption performances. *Ceramics International*, **2021**, 47, 33490-33490	5.1	0