

zhi-ling Hou

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.

97 papers	5,898 citations	33 h-index	76 g-index
104 ext. papers	6,851 ext. citations	4.5 avg, IF	5.78 L-index

#	Paper	IF	Citations
97	Highly tunable directional optical antennas with large local angular chiroptical effects. <i>Journal of Applied Physics</i> , 2022 , 131, 033103	2.5	
96	MXene films: Toward high-performance electromagnetic interference shielding and supercapacitor electrode. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 157, 106935	8.4	1
95	Distinct local angular chiroptical effects with unidirectional emission based on asymmetric plasmonic nanopillar antennas. <i>Optics Communications</i> , 2022 , 514, 128122	2	
94	Metal-organic frameworks derived carbon nanotube and carbonyl iron composite materials for broadband microwave absorbers with a wide filling range. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 169391	2.8	0
93	Preparation and absorption performance of CNTs/PUR honeycomb composite absorbing material. <i>Journal of Physics: Conference Series</i> , 2021 , 2076, 012026	0.3	0
92	A highly directional metamaterial-based terahertz circulator that does not require an external magnetic field. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 105103	3	2
91	Graphene and Carbon Nanotube Dual-Decorated SiO _x Composite Anode Material for Lithium-Ion Batteries. <i>Energy & Fuels</i> , 2021 , 35, 19784-19790	4.1	1
90	Fast-moving piezoelectric micro-robotic fish with double caudal fins. <i>Robotics and Autonomous Systems</i> , 2021 , 140, 103733	3.5	9
89	Construction of caterpillar-like hierarchically structured Co/MnO/CNTs derived from MnO ₂ /ZIF-8@ZIF-67 for electromagnetic wave absorption. <i>Carbon</i> , 2021 , 173, 521-527	10.4	35
88	Plasmonic nanosensor based on sharp Fano resonances induced by aperture-coupled slot system. <i>Optics Communications</i> , 2021 , 480, 126438	2	6
87	Sb ₂ Te ₃ nanosheets: Topological insulators with extraordinary electromagnetic response behaviors. <i>Chemical Engineering Journal</i> , 2021 , 414, 128036	14.7	2
86	Rutile TiO ₂ nanorod with anomalous resonance for charge storage and frequency selective absorption. <i>Ceramics International</i> , 2021 , 47, 2016-2021	5.1	4
85	A highly conductive self-assembled multilayer graphene nanosheet film for electronic tattoos in the applications of human electrophysiology and strain sensing. <i>Nanoscale</i> , 2021 , 13, 10798-10806	7.7	5
84	Sm doped BiFeO ₃ nanofibers for improved photovoltaic devices. <i>Chinese Journal of Physics</i> , 2020 , 66, 301-306	3.5	4
83	One-Step Synthesis of SiO _x @Graphene Composite Material by a Hydrothermal Method for Lithium-Ion Battery Anodes. <i>Energy & Fuels</i> , 2020 , 34, 3895-3900	4.1	10
82	Structural and thermoelectric properties of Zr-doped TiPdSn half-Heusler compound by first-principles calculations. <i>Chemical Physics Letters</i> , 2020 , 741, 137055	2.5	10
81	Highly dispersive GO-based supramolecular absorber: Chemical-reduction optimization for impedance matching. <i>Journal of Alloys and Compounds</i> , 2020 , 834, 155122	5.7	9

80	Ultrafast-Response Humidity Sensor with High Humidity Durability Based on a Freestanding Film of Graphene Oxide Supramolecular. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900869	1.6	9
79	High-Sensitivity and Ultrafast-Response Ethanol Sensors Based on Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38708-38713	9.5	11
78	Delicate construction of Si@SiO _x composite materials by microwave hydrothermal for lithium-ion battery anodes. <i>Ionics</i> , 2020 , 26, 69-74	2.7	6
77	Ultrathin Topological Insulator Absorber: Unique Dielectric Behavior of BiTe Nanosheets Based on Conducting Surface States. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33285-33291	9.5	59
76	Low-loss near-zero-index metamaterial based on a single board for broadband electromagnetic-wave switches. <i>Optics Communications</i> , 2019 , 446, 113-117	2	5
75	Enhanced photovoltaic property based on reduced leakage current and band gap in Nd-doped BiFeO ₃ films. <i>Materials Research Express</i> , 2019 , 6, 086426	1.7	5
74	Uniform SiO _x /graphene composite materials for lithium ion battery anodes. <i>Journal of Alloys and Compounds</i> , 2019 , 809, 151798	5.7	19
73	Size-modulated electromagnetic properties and highly efficient microwave absorption of magnetic iron oxide ceramic opened-hollow microspheres. <i>Ceramics International</i> , 2019 , 45, 23043-23049	5.1	13
72	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> , 2019 , 9, 34114-34119	3.7	6
71	Layer by layer 2D MoS ₂ /rGO hybrids: An optimized microwave absorber for high-efficient microwave absorption. <i>Applied Surface Science</i> , 2019 , 470, 899-907	6.7	33
70	Biopolymer nanofiber/reduced graphene oxide aerogels for tunable and broadband high-performance microwave absorption. <i>Composites Part B: Engineering</i> , 2019 , 161, 1-9	10	34
69	Multifunctional broadband microwave absorption of flexible graphene composites. <i>Carbon</i> , 2019 , 141, 608-617	10.4	121
68	Enhanced magnetization and bias voltage-dependent dielectric properties of Sm-doped BiFeO ₃ multiferroic nanofibers. <i>Journal of Materials Science</i> , 2018 , 53, 10249-10260	4.3	16
67	High sensitivity self-recovery ethanol sensor based on polyporous graphene oxide/melamine composites. <i>Carbon</i> , 2018 , 137, 467-474	10.4	28
66	Smart mechano-hydro-dielectric coupled hybrid sponges for multifunctional sensors. <i>Sensors and Actuators B: Chemical</i> , 2018 , 270, 239-246	8.5	14
65	Towards nanostructured boron nitride films. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 9048-9055	2.1	1
64	A universal permittivity-attenuation evaluation diagram for accelerating design of dielectric-based microwave absorption materials: A case of graphene-based composites. <i>Carbon</i> , 2017 , 118, 86-97	10.4	45
63	A wearable microwave absorption cloth. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2432-2441	7.1	74

62	Lightweight ferroferric oxide nanotubes with natural resonance property and design for broadband microwave absorption. <i>Journal of Materials Science</i> , 2017 , 52, 8258-8267	4.3	42
61	Designing high-performance electromagnetic wave absorption materials based on polymeric graphene-based dielectric composites: from fabrication technology to periodic pattern design. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6745-6754	7.1	25
60	High-temperature dielectric properties and microwave absorption abilities of Bi _{1-x} MgxFeO ₃ nanoparticles. <i>Ceramics International</i> , 2017 , 43, 11815-11819	5.1	10
59	The novel structure and superconductivity of zirconium hydride. <i>Computational Materials Science</i> , 2017 , 134, 38-41	3.2	4
58	Graphene oxide foams: the simplest carbon-air prototypes for unique variable dielectrics. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3397-3407	7.1	13
57	Construction of three-dimensional graphene interfaces into carbon fiber textiles for increasing deposition of nickel nanoparticles: flexible hierarchical magnetic textile composites for strong electromagnetic shielding. <i>Nanotechnology</i> , 2017 , 28, 045710	3.4	24
56	Broadening Electromagnetic Absorption Bandwidth: Design from Microscopic Dielectric-Magnetic Coupled Absorbers to Macroscopic Patterns. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1700589	1.6	13
55	Highly sensitive humidity sensor based on graphene oxide foam. <i>Applied Physics Letters</i> , 2017 , 111, 153101	9.4	23
54	Origin of Negative Imaginary Part of Effective Permittivity of Passive Materials. <i>Chinese Physics Letters</i> , 2017 , 34, 097701	1.8	11
53	Multi-dimensional flexible reduced graphene oxide/polymer sponges for multiple forms of strain sensors. <i>Carbon</i> , 2017 , 125, 199-206	10.4	61
52	Flexible Semitransparent Energy Harvester with High Pressure Sensitivity and Power Density Based on Laterally Aligned PZT Single-Crystal Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24698-24703	8.5	30
51	Wide-domain controlled electromagnetic and microwave absorption properties of PANI/Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ composites. <i>Materials Research Express</i> , 2017 , 4, 075029	1.7	5
50	Mutual promotion effect of Pr and Mg co-substitution on structure and multiferroic properties of BiFeO ₃ ceramic. <i>Ceramics International</i> , 2017 , 43, 262-267	5.1	34
49	Modeling for multi-resonant behavior of broadband metamaterial absorber with geometrical substrate. <i>Chinese Physics B</i> , 2017 , 26, 127802	1.2	9
48	Nanoscale polygonal carbon: a unique low-loading filler for effective microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 8159-8168	2.1	4
47	Enhanced Fluorescence Properties of Carbon Dots in Polymer Films. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6967-6974	7.1	59
46	A general model of dielectric constant for porous materials. <i>Applied Physics Letters</i> , 2016 , 108, 102902	3.4	25
45	A low-reflection coaxial tunable attenuator based on zero refractive index metamaterial. <i>Journal of Applied Physics</i> , 2016 , 120, 183102	2.5	4

44	Mg-substitution for promoting magnetic and ferroelectric properties of BiFeO ₃ multiferroic nanoparticles. <i>Materials Letters</i> , 2016 , 175, 207-211	3.3	29
43	Unusual continuous dual absorption peaks in Ca-doped BiFeO ₃ nanostructures for broadened microwave absorption. <i>Nanoscale</i> , 2016 , 8, 10415-24	7.7	128
42	Exceptional electrical and thermal transport properties in tunable all-graphene papers. <i>RSC Advances</i> , 2015 , 5, 75239-75247	3.7	18
41	Boron nitride nanomaterials for thermal management applications. <i>ChemPhysChem</i> , 2015 , 16, 1339-46	3.2	89
40	Nano-scale and micron-scale manganese dioxide vs corresponding paraffin composites for electromagnetic interference shielding and microwave absorption. <i>Materials Research Bulletin</i> , 2014 , 51, 277-286	5.1	18
39	Flexible graphene-graphene composites of superior thermal and electrical transport properties. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15026-32	9.5	81
38	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> , 2014 , 2, 10540	13	341
37	Beta-manganese dioxide nanorods for sufficient high-temperature electromagnetic interference shielding in X-band. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 1779-1783	2.6	23
36	Facile fabrication of ultrathin graphene papers for effective electromagnetic shielding. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5057-5064	7.1	138
35	Efficiency enhancement of anomalous-Doppler electron cyclotron masers with tapered magnetic field. <i>Physics of Plasmas</i> , 2014 , 21, 023117	2.1	2
34	Temperature dependent microwave attenuation behavior for carbon-nanotube/silica composites. <i>Carbon</i> , 2013 , 65, 124-139	10.4	793
33	Structure, ferromagnetism and microwave absorption properties of La substituted BiFeO ₃ nanoparticles. <i>Materials Letters</i> , 2013 , 111, 130-133	3.3	42
32	Enhanced magnetization and improved leakage in Er-doped BiFeO ₃ nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 809-813	1.6	37
31	The nonlinear theory of slow-wave electron cyclotron masers with inclusion of the beam velocity spread. <i>Annals of Physics</i> , 2013 , 339, 588-595	2.5	2
30	Ni-decorated SiC powders: Enhanced high-temperature dielectric properties and microwave absorption performance. <i>Powder Technology</i> , 2013 , 237, 309-313	5.2	59
29	High dielectric loss and microwave absorption behavior of multiferroic BiFeO ₃ ceramic. <i>Ceramics International</i> , 2013 , 39, 7241-7246	5.1	44
28	Silicon carbide powders: Temperature-dependent dielectric properties and enhanced microwave absorption at gigahertz range. <i>Solid State Communications</i> , 2013 , 163, 1-6	1.6	95
27	Alignment of graphene sheets in wax composites for electromagnetic interference shielding improvement. <i>Nanotechnology</i> , 2013 , 24, 115708	3.4	77

26	Tetra-needle zinc oxide/silica composites: High-temperature dielectric properties at X-band. <i>Solid State Communications</i> , 2013 , 154, 64-68	1.6	18
25	Enhancing the efficiency of slow-wave electron cyclotron masers with the tapered refractive index. <i>Physics of Plasmas</i> , 2013 , 20, 043107	2.1	2
24	The Self-Consistent Nonlinear Theory of Charged Particle Beam Acceleration by Slowed Circularly Polarized Electromagnetic Waves. <i>Plasma Science and Technology</i> , 2013 , 15, 1174-1177	1.5	1
23	Microwave permittivity and permeability experiments in high-loss dielectrics: Caution with implicit Fabry-Pérot resonance for negative imaginary permeability. <i>Applied Physics Letters</i> , 2013 , 103, 162905	3.4	44
22	Synthesis of zinc oxide particles coated multiwalled carbon nanotubes: Dielectric properties, electromagnetic interference shielding and microwave absorption. <i>Materials Research Bulletin</i> , 2012 , 47, 1747-1754	5.1	108
21	Enhanced ferromagnetism and microwave absorption properties of BiFeO ₃ nanocrystals with Ho substitution. <i>Materials Letters</i> , 2012 , 84, 110-113	3.3	76
20	Ferroferric oxide/multiwalled carbon nanotube vs polyaniline/ferroferric oxide/multiwalled carbon nanotube multiheterostructures for highly effective microwave absorption. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6949-56	9.5	675
19	The resonance interaction of relativistic charged particle and circularly polarized electromagnetic wave. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 1104-1106	3.7	2
18	Electronic scattering leads to anomalous thermal conductivity of n-type cubic silicon carbide in the high-temperature region. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 445802	1.8	4
17	Different Roles of a Boron Substitute for Carbon and Silicon in 6SiC. <i>Chinese Physics Letters</i> , 2012 , 29, 077102	1.8	3
16	The Comprehensive Retrieval Method of Electromagnetic Parameters Using the Scattering Parameters of Metamaterials for Two Choices of Time-Dependent Factors. <i>Chinese Physics Letters</i> , 2012 , 29, 017701	1.8	14
15	High-Temperature Permittivity and Data-Mining of Silicon Dioxide at GHz Band. <i>Chinese Physics Letters</i> , 2012 , 29, 027701	1.8	5
14	First Principle Study of the Electronic Properties of 3C-SiC Doped with Different Amounts of Ni. <i>Chinese Physics Letters</i> , 2012 , 29, 077701	1.8	11
13	A density-functional theory investigation on desorption of O ₂ on Sn(111) and its comparison with initial oxidation on the X (111) (X = Si, Ge, Sn, Pb) surfaces. <i>Chinese Physics B</i> , 2012 , 21, 126803	1.2	1
12	Structural stability, electronic and optical properties of Ni-doped 3C-SiC by first principles calculation. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 6117-6122	5.7	39
11	Numerical Simulations of Nonlinear Dynamics of Electron Cyclotron Maser with a Straight Beam. <i>Chinese Physics Letters</i> , 2011 , 28, 117702	1.8	1
10	Polarization Mechanism of Oxygen Vacancy and Its Influence on Dielectric Properties in ZnO. <i>Chinese Physics Letters</i> , 2011 , 28, 027101	1.8	8
9	Enhanced Ferromagnetism and Microwave Dielectric Properties of Bi _{0.95} Y _{0.05} FeO ₃ Nanocrystals. <i>Chinese Physics Letters</i> , 2011 , 28, 037702	1.8	20

8	The self-consistent nonlinear theory of electron cyclotron maser based on anomalous Doppler effect. <i>Applied Physics Letters</i> , 2011 , 98, 261502	3.4	13
7	Microwave responses and general model of nanotetraprismatic ZnO: Integration of interface scattering, microcurrent, dielectric relaxation, and microantenna. <i>Journal of Applied Physics</i> , 2010 , 107, 054304	2.5	50
6	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> , 2010 , 374, 2286-2289	2.3	19
5	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> , 2010 , 48, 788-796	10.4	1264
4	High-temperature microwave absorption and evolutionary behavior of multiwalled carbon nanotube nanocomposite. <i>Scripta Materialia</i> , 2009 , 61, 201-204	5.6	177
3	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> , 2009 , 94, 233110	3.4	267
2	Microwave Absorption and Mechanical Properties of CNTs/ PU Composites with Honeycomb Structure. <i>Applied Composite Materials</i> , 1	2	0
1	Ultra-unidirectional Emission with Enhanced Spectral Splitting Based on Plasmonic Nano-pillars and its Metasurface. <i>Plasmonics</i> , 1	2.4	