

zhi-ling Hou

List of Publications by Year in descending order

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104
papers

7,726
citations

94433

37
h-index

49909

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104
all docs

104
docs citations

104
times ranked

5535
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. <i>Carbon</i> , 2010, 48, 788-796.	10.3	1,582
2	Temperature dependent microwave attenuation behavior for carbon-nanotube/silica composites. <i>Carbon</i> , 2013, 65, 124-139.	10.3	1,009
3	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, 6949-6956.	8.0	823
4	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.	10.3	420
5	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, .	3.3	333
6	High-temperature microwave absorption and evolutionary behavior of multiwalled carbon nanotube nanocomposite. <i>Scripta Materialia</i> , 2009, 61, 201-204.	5.2	204
7	Multifunctional broadband microwave absorption of flexible graphene composites. <i>Carbon</i> , 2019, 141, 608-617.	10.3	197
8	Facile fabrication of ultrathin graphene papers for effective electromagnetic shielding. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5057-5064.	5.5	159
9	Unusual continuous dual absorption peaks in Ca-doped BiFeO ₃ nanostructures for broadened microwave absorption. <i>Nanoscale</i> , 2016, 8, 10415-10424.	5.6	147
10	Silicon carbide powders: Temperature-dependent dielectric properties and enhanced microwave absorption at gigahertz range. <i>Solid State Communications</i> , 2013, 163, 1-6.	1.9	133
11	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.	5.2	122
12	Boron Nitride Nanomaterials for Thermal Management Applications. <i>ChemPhysChem</i> , 2015, 16, 1339-1346.	2.1	119
13	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.	10.3	114
14	A wearable microwave absorption cloth. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2432-2441.	5.5	100
15	Flexible Grapheneâ€“Graphene Composites of Superior Thermal and Electrical Transport Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15026-15032.	8.0	97
16	Ultrathin Topological Insulator Absorber: Unique Dielectric Behavior of Bi ₂ Te ₃ Nanosheets Based on Conducting Surface States. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33285-33291.	8.0	94
17	Alignment of graphene sheets in wax composites for electromagnetic interference shielding improvement. <i>Nanotechnology</i> , 2013, 24, 115708.	2.6	87
18	Multi-dimensional flexible reduced graphene oxide/polymer sponges for multiple forms of strain sensors. <i>Carbon</i> , 2017, 125, 199-206.	10.3	83

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19	Enhanced ferromagnetism and microwave absorption properties of BiFeO ₃ nanocrystals with Ho substitution. <i>Materials Letters</i> , 2012, 84, 110-113.	2.6	82
20	Ni-decorated SiC powders: Enhanced high-temperature dielectric properties and microwave absorption performance. <i>Powder Technology</i> , 2013, 237, 309-313.	4.2	75
21	Enhanced fluorescence properties of carbon dots in polymer films. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6967-6974.	5.5	74
22	Lightweight ferroferric oxide nanotubes with natural resonance property and design for broadband microwave absorption. <i>Journal of Materials Science</i> , 2017, 52, 8258-8267.	3.7	64
23	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.	6.1	62
24	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.	10.3	61
25	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, .	3.3	58
26	Biopolymer nanofiber/reduced graphene oxide aerogels for tunable and broadband high-performance microwave absorption. <i>Composites Part B: Engineering</i> , 2019, 161, 1-9.	12.0	57
27	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	53
28	High-temperature conductance loss dominated defect level in h-BN: Experiments and first principles calculations. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	50
29	High dielectric loss and microwave absorption behavior of multiferroic BiFeO ₃ ceramic. <i>Ceramics International</i> , 2013, 39, 7241-7246.	4.8	49
30	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, 24696-24703.	8.0	48
31	Structure, ferromagnetism and microwave absorption properties of La substituted BiFeO ₃ nanoparticles. <i>Materials Letters</i> , 2013, 111, 130-133.	2.6	47
32	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.	5.5	46
33	Electrospinning fabrication and ultra-wideband electromagnetic wave absorption properties of CeO ₂ /N-doped carbon nanofibers. <i>Nano Research</i> , 2022, 15, 7788-7796.	10.4	44
34	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.	1.8	43
35	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.	4.8	42
36	Fast-moving piezoelectric micro-robotic fish with double caudal fins. <i>Robotics and Autonomous Systems</i> , 2021, 140, 103733.	5.1	42

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37	Mg-substitution for promoting magnetic and ferroelectric properties of BiFeO ₃ multiferroic nanoparticles. <i>Materials Letters</i> , 2016, 175, 207-211.	2.6	40
38	Low dielectric loss and non-Debye relaxation of gamma-Y ₂ Si ₂ O ₇ ceramic at elevated temperature in X-band. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	38
39	A general model of dielectric constant for porous materials. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	37
40	High sensitivity self-recovery ethanol sensor based on polyporous graphene oxide/melamine composites. <i>Carbon</i> , 2018, 137, 467-474.	10.3	36
41	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.	5.5	34
42	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.	2.6	34
43	MXene films: Toward high-performance electromagnetic interference shielding and supercapacitor electrode. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 157, 106935.	7.6	32
44	Uniform SiO _x /graphene composite materials for lithium ion battery anodes. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151798.	5.5	29
45	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.	2.3	28
46	Highly sensitive humidity sensor based on graphene oxide foam. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	28
47	High-Sensitivity and Ultrafast-Response Ethanol Sensors Based on Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38708-38713.	8.0	25
48	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.	4.8	24
49	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.	5.2	22
50	Exceptional electrical and thermal transport properties in tunable all-graphene papers. <i>RSC Advances</i> , 2015, 5, 75239-75247.	3.6	22
51	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.	3.7	22
52	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.	2.1	21
53	Origin of Negative Imaginary Part of Effective Permittivity of Passive Materials. <i>Chinese Physics Letters</i> , 2017, 34, 097701.	3.3	21
54	Enhanced Ferromagnetism and Microwave Dielectric Properties of Bi _{0.95} Y _{0.05} FeO ₃ Nanocrystals. <i>Chinese Physics Letters</i> , 2011, 28, 037702.	3.3	20

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55	Tetra-needle zinc oxide/silica composites: High-temperature dielectric properties at X-band. <i>Solid State Communications</i> , 2013, 154, 64-68.	1.9	20
56	One-Step Synthesis of SiO ₂ @Graphene Composite Material by a Hydrothermal Method for Lithium-Ion Battery Anodes. <i>Energy & Fuels</i> , 2020, 34, 3895-3900.	5.1	20
57	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.	3.3	16
58	Graphene oxide foams: the simplest carbon-air prototypes for unique variable dielectrics. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3397-3407.	5.5	16
59	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.	1.8	16
60	Smart mechano-hydro-dielectric coupled hybrid sponges for multifunctional sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 239-246.	7.8	16
61	The self-consistent nonlinear theory of electron cyclotron maser based on anomalous Doppler effect. <i>Applied Physics Letters</i> , 2011, 98, 261502.	3.3	15
62	First Principle Study of the Electronic Properties of 3C-SiC Doped with Different Amounts of Ni. <i>Chinese Physics Letters</i> , 2012, 29, 077701.	3.3	15
63	Modeling for multi-resonant behavior of broadband metamaterial absorber with geometrical substrate. <i>Chinese Physics B</i> , 2017, 26, 127802.	1.4	15
64	Plasmonic nanosensor based on sharp Fano resonances induced by aperture-coupled slot system. <i>Optics Communications</i> , 2021, 480, 126438.	2.1	14
65	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.	5.6	14
66	Structural and thermoelectric properties of Zr-doped TiPdSn half-Heusler compound by first-principles calculations. <i>Chemical Physics Letters</i> , 2020, 741, 137055.	2.6	13
67	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.	1.8	12
68	Highly dispersive GO-based supramolecular absorber: Chemical-reduction optimization for impedance matching. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155122.	5.5	12
69	Sb ₂ Te ₃ nanosheets: Topological insulators with extraordinary electromagnetic response behaviors. <i>Chemical Engineering Journal</i> , 2021, 414, 128036.	12.7	12
70	High-temperature dielectric properties and microwave absorption abilities of Bi _{1-x} Mg _x FeO ₃ nanoparticles. <i>Ceramics International</i> , 2017, 43, 11815-11819.	4.8	11
71	Polarization Mechanism of Oxygen Vacancy and Its Influence on Dielectric Properties in ZnO. <i>Chinese Physics Letters</i> , 2011, 28, 027101.	3.3	10
72	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.	1.6	9

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73	Delicate construction of Si@SiO _x composite materials by microwave hydrothermal for lithium-ion battery anodes. <i>Ionics</i> , 2020, 26, 69-74.	2.4	9
74	Sm doped BiFeO ₃ nanofibers for improved photovoltaic devices. <i>Chinese Journal of Physics</i> , 2020, 66, 301-306.	3.9	9
75	Rutile TiO ₂ nanorod with anomalous resonance for charge storage and frequency selective absorption. <i>Ceramics International</i> , 2021, 47, 2016-2021.	4.8	9
76	Si@Cu composite anode material prepared by magnetron sputtering for high-capacity lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 4766-4771.	7.1	8
77	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.	3.6	7
78	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, 555, 169391.	2.3	7
79	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	6
80	High-Temperature Permittivity and Data-Mining of Silicon Dioxide at GHz Band. <i>Chinese Physics Letters</i> , 2012, 29, 027701.	3.3	6
81	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.	2.2	6
82	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.	1.6	6
83	Low-loss near-zero-index metamaterial based on a single board for broadband electromagnetic-wave switches. <i>Optics Communications</i> , 2019, 446, 113-117.	2.1	6
84	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.	2.8	6
85	Graphene and Carbon Nanotube Dual-Decorated SiO _x Composite Anode Material for Lithium-Ion Batteries. <i>Energy & Fuels</i> , 2021, 35, 19784-19790.	5.1	6
86	The novel structure and superconductivity of zirconium hydride. <i>Computational Materials Science</i> , 2017, 134, 38-41.	3.0	5
87	Loaded Slot Cavity Induced Sensing Enhancement and Transparency Based on Plasmonic Structure. <i>IEEE Sensors Journal</i> , 2022, 22, 14044-14050.	4.7	5
88	A low-reflection coaxial tunable attenuator based on zero refractive index metamaterial. <i>Journal of Applied Physics</i> , 2016, 120, 183102.	2.5	4
89	Plasmon-Induced Transparency for Tunable Atom Trapping in a Chiral Metamaterial Structure. <i>Nanomaterials</i> , 2022, 12, 516.	4.1	4
90	Different Roles of a Boron Substitute for Carbon and Silicon in β -SiC. <i>Chinese Physics Letters</i> , 2012, 29, 077102.	3.3	3

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91	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.	3.3	3
92	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.	2.8	3
93	Efficiency enhancement of anomalous-Doppler electron cyclotron masers with tapered magnetic field. <i>Physics of Plasmas</i> , 2014, 21, 023117.	1.9	3
94	Preparation of Fe ₃ O ₄ nanospindle composites and high performance microwave absorption. <i>Chinese Science Bulletin</i> , 2018, 63, 3667-3676.	0.7	3
95	Microwave Absorption and Mechanical Properties of CNTs/ PU Composites with Honeycomb Structure. <i>Applied Composite Materials</i> , 2022, 29, 1393-1407.	2.5	3
96	Enhancing the efficiency of slow-wave electron cyclotron masers with the tapered refractive index. <i>Physics of Plasmas</i> , 2013, 20, 043107.	1.9	2
97	Towards nanostructured boron nitride films. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9048-9055.	2.2	2
98	Preparation and absorption performance of CNTs/PUR honeycomb composite absorbing material. <i>Journal of Physics: Conference Series</i> , 2021, 2076, 012026.	0.4	2
99	Numerical Simulations of Nonlinear Dynamics of Electron Cyclotron Maser with a Straight Beam. <i>Chinese Physics Letters</i> , 2011, 28, 117702.	3.3	1
100	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.	1.4	1
101	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
102	Ultra-unidirectional Emission with Enhanced Spectral Splitting Based on Plasmonic Nano-pillars and its Metasurface. <i>Plasmonics</i> , 2022, 17, 1463-1469.	3.4	1
103	Highly tunable directional optical antennas with large local angular chiroptical effects. <i>Journal of Applied Physics</i> , 2022, 131, 033103.	2.5	0
104	Distinct local angular chiroptical effects with unidirectional emission based on asymmetric plasmonic nanopillar antennas. <i>Optics Communications</i> , 2022, 514, 128122.	2.1	0