

Zhi-Cheng Shi

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74
papers

2,695
citations

31
h-index

51
g-index

78
ext. papers

3,614
ext. citations

6.5
avg, IF

5.83
L-index

#	Paper	IF	Citations
74	Random composites of nickel networks supported by porous alumina toward double negative materials. <i>Advanced Materials</i> , 2012 , 24, 2349-52	24	210
73	Preparation of Iron Networks Hosted in Porous Alumina with Tunable Negative Permittivity and Permeability. <i>Advanced Functional Materials</i> , 2013 , 23, 4123-4132	15.6	141
72	An overview of metamaterials and their achievements in wireless power transfer. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2925-2943	7.1	135
71	Ultrahigh discharge efficiency and improved energy density in rationally designed bilayer polyetherimide/BaTiO ₃ /P(VDF-HFP) composites. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5750-5757	13	129
70	Fabrication of core-shell structured Ni@BaTiO ₃ scaffolds for polymer composites with ultrahigh dielectric constant and low loss. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 125, 105521	8.4	121
69	Two-dimensional biomass-derived carbon nanosheets and MnO/carbon electrodes for high-performance Li-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15243-15252	13	110
68	Lightweight Fe ₃ C@Fe/C nanocomposites derived from wasted cornstalks with high-efficiency microwave absorption and ultrathin thickness. <i>Advanced Composites and Hybrid Materials</i> , 2021 , 4, 1226	8.7	93
67	Significantly improved dielectric performances of sandwich-structured polymer composites induced by alternating positive-k and negative-k layers. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14575-14582 ⁹¹	13.5	91
66	Bilayer Polymer Metacomposites Containing Negative Permittivity Layer for New High-k Materials. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1793-1800	9.5	83
65	Negative permittivity behavior and magnetic performance of perovskite La _{1-x} Sr _x MnO ₃ at high-frequency. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1028-1033	7.1	81
64	Achieving excellent dielectric performance in polymer composites with ultralow filler loadings via constructing hollow-structured filler frameworks. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 131, 105814	8.4	80
63	Experimental realization of simultaneous negative permittivity and permeability in Ag/Y ₃ Fe ₅ O ₁₂ random composites. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1633	7.1	73
62	Layer-structured BaTiO ₃ /P(VDF-HFP) composites with concurrently improved dielectric permittivity and breakdown strength toward capacitive energy-storage applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10257-10265	7.1	67
61	Asymmetric Trilayer All-Polymer Dielectric Composites with Simultaneous High Efficiency and High Energy Density: A Novel Design Targeting Advanced Energy Storage Capacitors. <i>Advanced Functional Materials</i> , 2021 , 31, 2100280	15.6	66
60	Tunable Electromagnetic Properties in Co/Al ₂ O ₃ Cermets Prepared by Wet Chemical Method. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3223-3229	3.8	63
59	Ion implantation of copper oxide thin films; statistical and experimental results. <i>Surfaces and Interfaces</i> , 2020 , 18, 100463	4.1	62
58	Tin dioxide nanoparticles with high sensitivity and selectivity for gas sensors at sub-ppm level of hydrogen gas detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 14687-14694	2.1	56

57	Sulfur-Rich Graphene Nanoboxes with Ultra-High Potassiation Capacity at Fast Charge: Storage Mechanisms and Device Performance. <i>ACS Nano</i> , 2021 , 15, 1652-1665	16.7	53
56	Radio-frequency permeability and permittivity spectra of copper/yttrium iron garnet cermet prepared at low temperatures. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1219-1225	6	50
55	High-Frequency Negative Permittivity from Fe/Al ₂ O ₃ Composites with High Metal Contents. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 67-70	3.8	44
54	Bilayer carbon nanowires/nickel cobalt hydroxides nanostructures for high-performance supercapacitors. <i>Materials Letters</i> , 2020 , 263, 127217	3.3	42
53	Nanostructured tungsten trioxide prepared at various growth temperatures for sensing applications. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 154105	5.7	42
52	Statistical, morphological, and corrosion behavior of PECVD derived cobalt oxide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 21185-21198	2.1	41
51	Tunable radio-frequency negative permittivity in nickel-alumina natural/meta-composites. <i>Applied Physics Letters</i> , 2014 , 104, 252908	3.4	41
50	Achieving Concurrent High Energy Density and Efficiency in All-Polymer Layered Paraelectric/Ferroelectric Composites via Introducing a Moderate Layer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27522-27532	9.5	40
49	Structures, morphological control, and antibacterial performance of tungsten oxide thin films. <i>Ceramics International</i> , 2021 , 47, 17153-17160	5.1	40
48	Flexible Polyimide Nanocomposites with dc Bias Induced Excellent Dielectric Tunability and Unique Nonpercolative Negative- k toward Intrinsic Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26713-26722	9.5	36
47	Ultra low percolation threshold and significantly enhanced permittivity in porous metal/ceramic composites. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6752	7.1	35
46	Tunable negative permittivity behavior and conductor/insulator transition in dual composites prepared by selective reduction reaction. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 79-85	7.1	35
45	Significantly enhanced dielectric permittivity and low loss in epoxy composites incorporating 3d W-WO ₃ /BaTiO ₃ foams. <i>Journal of Materials Science</i> , 2021 , 56, 4254-4265	4.3	32
44	Metal-organic framework derived hollow CoFe@C composites by the tunable chemical composition for efficient microwave absorption. <i>Journal of Colloid and Interface Science</i> , 2021 , 593, 370-379	9.3	31
43	Percolative silver/alumina composites with radio frequency dielectric resonance-induced negative permittivity. <i>RSC Advances</i> , 2015 , 5, 107307-107312	3.7	30
42	Facile deposition of porous fluorine doped tin oxide by Dr. Blade method for capacitive applications. <i>Ceramics International</i> , 2021 , 47, 5487-5494	5.1	30
41	Microwave absorption properties of Fe@Al ₂ O ₃ nanoembedments prepared by mechanosynthesis. <i>Materials Chemistry and Physics</i> , 2011 , 130, 615-618	4.4	29
40	Enhancing Dielectric Performance of Poly(vinylidene fluoride) Nanocomposites via Controlled Distribution of Carbon Nanotubes and Barium Titanate Nanoparticles. <i>Engineered Science</i> , 2018 ,	3.8	26

39	Polymer composites with balanced dielectric constant and loss via constructing trilayer architecture. <i>Journal of Materials Science</i> , 2018 , 53, 13230-13242	4.3	24
38	Improved dielectric permittivity and retained low loss in layer-structured films via controlling interfaces. <i>Advanced Composites and Hybrid Materials</i> , 2018 , 1, 548-557	8.7	24
37	Significantly enhanced high permittivity and negative permittivity in Ag/Al ₂ O ₃ /3D-BaTiO ₃ /epoxy metacomposites with unique hierarchical heterogeneous microstructures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 149, 106559	8.4	24
36	Improved breakdown strengths and energy storage properties of polyimide composites: The effect of internal interfaces of C/SiO ₂ hybrid nanoparticles. <i>Polymer Composites</i> , 2021 , 42, 3000	3	21
35	Electrospun hetero-CoP/FeP embedded in porous carbon nanofibers: enhanced Na kinetics and specific capacity. <i>Nanoscale</i> , 2020 , 12, 24477-24487	7.7	19
34	Greatly enhanced dielectric charge storage capabilities of layered polymer composites incorporated with low loading fractions of ultrathin amorphous iron phosphate nanosheets. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10414-10424	7.1	18
33	Cellulose-derived carbon-based electrodes with high capacitance for advanced asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2020 , 457, 228056	8.9	15
32	A facile way to grow NiMn-LDH sheets on KCu ₇ S ₄ nanowires with synergistic effects for applications in hybrid supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 154056	5.7	15
31	Sulfur-Doped NickelCobalt Double Hydroxide Electrodes for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11082-11090	6.1	14
30	High potassium ion storage capacity with long cycling stability of sustainable oxygen-rich carbon nanosheets. <i>Nanoscale</i> , 2021 , 13, 2389-2398	7.7	14
29	Facile preparation of ultralight porous carbon hollow nanoboxes for electromagnetic wave absorption. <i>Ceramics International</i> , 2021 , 47, 28014-28020	5.1	14
28	Microstructure and metaldielectric transition behaviour in a percolative Al ₂ O ₃ Be composite via selective reduction. <i>RSC Advances</i> , 2013 , 3, 26110	3.7	13
27	Ni/Al ₂ O ₃ /epoxy high-k composites with ultralow nickel content towards high-performance dielectric applications. <i>RSC Advances</i> , 2016 , 6, 43429-43435	3.7	13
26	Sensing selectivity of SnO ₂ -Mn ₃ O ₄ nanocomposite sensors for the detection of H ₂ and CO gases. <i>Surfaces and Interfaces</i> , 2021 , 25, 101190	4.1	13
25	Achieving highly tunable negative permittivity in titanium nitride/polyimide nanocomposites via controlled DC bias. <i>Materials Letters</i> , 2018 , 231, 87-90	3.3	12
24	Opposite Sensing Response of Heterojunction Gas Sensors Based on SnO-CrO Nanocomposites to H against CO and Its Selectivity Mechanism. <i>Langmuir</i> , 2021 , 37, 13548-13558	4	9
23	A new strategy for achieving high K storage capacity with fast kinetics: realizing covalent sulfur-rich carbon by phosphorous doping. <i>Nanoscale</i> , 2021 , 13, 4911-4920	7.7	9
22	Boosting capacitance and energy density by construction NiCoO ₂ /CoS ₂ nanocomposites arrays as pseudocapacitor. <i>Journal of Alloys and Compounds</i> , 2021 , 881, 160627	5.7	9

21	Oxygen Engineering Enables N-Doped Porous Carbon Nanofibers as Oxygen Reduction/Evolution Reaction Electrocatalysts for Flexible Zinc-Air Batteries. <i>ACS Catalysis</i> , 2022 , 12, 4002-4015	13.1	9
20	Suppressing the loss and enhancing the breakdown strengths of high-k materials via constructing layered structure. <i>Materials Letters</i> , 2022 , 312, 131654	3.3	8
19	Largely Improved Breakdown Strength and Discharge Efficiency of Layer-Structured Nanocomposites by Filling with a Small Loading Fraction of 2D Zirconium Phosphate Nanosheets. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2101646	4.6	6
18	Recent advances in radio-frequency negative dielectric metamaterials by designing heterogeneous composites. <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	6
17	All-cellulose-based quasi-solid-state supercapacitor with nitrogen and boron dual-doped carbon electrodes exhibiting high energy density and excellent cyclic stability. <i>Green Energy and Environment</i> , 2022 ,	5.7	5
16	Effect of Sm ³⁺ Concentration on the Vibrational and Luminescent Properties of LaPO ₄ . <i>Materials Science Forum</i> , 2016 , 848, 482-488	0.4	5
15	High-rate sodium storage performance enabled using hollow Co ₃ O ₄ nanoparticles anchored in porous carbon nanofibers anode. <i>Journal of Alloys and Compounds</i> , 2021 , 868, 159262	5.7	4
14	Controllable synthesis of NiCo-LDH/Co(OH) ₂ @PPY composite via electrodeposition at high deposition voltages for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021 , 875, 160042	5.7	4
13	Magnetic multiresonance behavior of Fe@Al ₂ O ₃ nanoembedments and microstructural evolution during mechanosynthesis. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 5600-5603	5.7	3
12	Synthesis and Characterization of Iron Particles Hosted in Porous Alumina. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2011 , 21, 836-840	3.2	3
11	3D Lattice-Matching Layered Hydroxide Heterostructure with Improved Interfacial Charge Transfer and Ion Diffusion for High Energy Density Supercapacitor. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100429	4.6	3
10	Simultaneous Realization of Significantly Enhanced Breakdown Strength and Moderately Enhanced Permittivity in Layered PMMA/P(VDF-HFP) Nanocomposites via Inserting an Al ₂ O ₃ /P(VDF-HFP) Layer. <i>Journal of Physical Chemistry C</i> ,	3.8	3
9	One-pot synthesis of nanosized MnO incorporated into N-doped carbon nanosheets for high performance lithium storage. <i>Journal of Alloys and Compounds</i> , 2022 , 902, 163827	5.7	2
8	Salt-assisted in-situ formation of N-doped porous carbons for boosting K ⁺ storage capacity and cycling stability. <i>New Carbon Materials</i> , 2021 , 36, 167-178	4.4	2
7	Tunable Electromagnetic Properties of Yttrium Iron Garnet Ceramics. <i>Materials Science Forum</i> , 2015 , 816, 113-117	0.4	1
6	Double Negative Property in Co/YIG Prepared by Low Temperature Impregnation Process. <i>Materials Science Forum</i> , 2015 , 816, 107-112	0.4	1
5	Evolution of Adsorption-Insertion-K ⁺ storage behaviors in flower-like carbons with tunable heteroatom doping and graphitic structures. <i>Sustainable Energy and Fuels</i> ,	5.8	1
4	Tailorable high-k and negative-k percolation behaviors in PPy/P(VDF-HFP) composites. <i>Composites Communications</i> , 2021 , 28, 100945	6.7	1

- 3 Preparation of CoFe@N-doped C/rGO composites derived from CoFe Prussian blue analogues for efficient microwave absorption.. *Journal of Colloid and Interface Science*, **2021**, 610, 395-406 9-3 ○
- 2 Bi@hollow carbon tube enabled high performance potassium metal batteries. *Journal of Alloys and Compounds*, **2022**, 913, 165329 5-7 ○
- 1 Preparation and Characterization of $(\text{Fe, Al})_2\text{O}_3$ Solid Solutions by Sol-Gel Method. *Journal of Inorganic and Organometallic Polymers and Materials*, **2012**, 22, 86-89 3-2