

Hong Wang

List of Publications by Year in descending order

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3149
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Temperature Dielectric Materials for Electrical Energy Storage. Annual Review of Materials Research, 2018, 48, 219-243.	9.3	540
2	Simultaneously achieved temperature-insensitive high energy density and efficiency in domain engineered BaTiO ₃ -Bi(Mg _{0.5} Zr _{0.5})O ₃ lead-free relaxor ferroelectrics. Nano Energy, 2018, 52, 203-210.	16.0	410
3	Ultrahigh Energy Storage Performance of Lead-Free Oxide Multilayer Film Capacitors via Interface Engineering. Advanced Materials, 2017, 29, 1604427.	21.0	247
4	Relaxor ferroelectric 0.9BaTiO ₃ -0.1Bi(Zn _{0.5} Zr _{0.5})O ₃ ceramic capacitors with high energy density and temperature stable energy storage properties. Journal of Materials Chemistry C, 2017, 5, 9552-9558.	5.5	241
5	Ultrahigh energy density and greatly enhanced discharged efficiency of sandwich-structured polymer nanocomposites with optimized spatial organization. Nano Energy, 2018, 44, 364-370.	16.0	241
6	Compositional tailoring effect on electric field distribution for significantly enhanced breakdown strength and restrained conductive loss in sandwich-structured ceramic/polymer nanocomposites. Journal of Materials Chemistry A, 2017, 5, 4710-4718.	10.3	217
7	Ultrahigh electric displacement and energy density in gradient layer-structured BaTiO ₃ /PVDF nanocomposites with an interfacial barrier effect. Journal of Materials Chemistry A, 2017, 5, 10849-10855.	10.3	197
8	Asymmetric Trilayer All-Polymer Dielectric Composites with Simultaneous High Efficiency and High Energy Density: A Novel Design Targeting Advanced Energy Storage Capacitors. Advanced Functional Materials, 2021, 31, 2100280.	14.9	179
9	Multilayered ferroelectric polymer films incorporating low-dielectric-constant components for concurrent enhancement of energy density and charge-discharge efficiency. Nano Energy, 2018, 54, 288-296.	16.0	161
10	Multilayered hierarchical polymer composites for high energy density capacitors. Journal of Materials Chemistry A, 2019, 7, 2965-2980.	10.3	153
11	3D boron nitride foam filled epoxy composites with significantly enhanced thermal conductivity by a facial and scalable approach. Chemical Engineering Journal, 2020, 397, 125447.	12.7	152
12	Poor Stability of Li ₂ CO ₃ in the Solid Electrolyte Interphase of a Lithium-Metal Anode Revealed by Cryo-Electron Microscopy. Advanced Materials, 2021, 33, e2100404.	21.0	147
13	Multiscale structural engineering of dielectric ceramics for energy storage applications: from bulk to thin films. Nanoscale, 2020, 12, 17165-17184.	5.6	131
14	Multifunctional hydrogel enables extremely simplified electrochromic devices for smart windows and ionic writing boards. Materials Horizons, 2018, 5, 1000-1007.	12.2	129
15	Solution-Processed Self-Powered Transparent Ultraviolet Photodetectors with Ultrafast Response Speed for High-Performance Communication System. Advanced Functional Materials, 2019, 29, 1809013.	14.9	123
16	A Facile In Situ Surface-Functionalization Approach to Scalable Laminated High-Temperature Polymer Dielectrics with Ultrahigh Capacitive Performance. Advanced Functional Materials, 2021, 31, 2102644.	14.9	117
17	Probing the Na metal solid electrolyte interphase via cryo-transmission electron microscopy. Nature Communications, 2021, 12, 3066.	12.8	92
18	Ultra-high energy storage performance in lead-free multilayer ceramic capacitors via a multiscale optimization strategy. Energy and Environmental Science, 2020, 13, 4882-4890.	30.8	88

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19	Bioinspired Hierarchically Structured All-Inorganic Nanocomposites with Significantly Improved Capacitive Performance. <i>Advanced Functional Materials</i> , 2020, 30, 2000191.	14.9	88
20	Ultrahigh discharge efficiency and energy density achieved at low electric fields in sandwich-structured polymer films containing dielectric elastomers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3729-3736.	10.3	85
21	Enhanced electric breakdown strength and high energy density of barium titanate filled polymer nanocomposites. <i>Journal of Applied Physics</i> , 2013, 114, 174107.	2.5	73
22	Additive stabilization of SEI on graphite observed using cryo-electron microscopy. <i>Energy and Environmental Science</i> , 2021, 14, 4882-4889.	30.8	73
23	Polarization relaxation mechanism of Ba _{0.6} Sr _{0.4} TiO ₃ /Ni _{0.8} Zn _{0.2} Fe ₂ O ₄ composite with giant dielectric constant and high permeability. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	71
24	Enhanced dielectric performance of BaTiO ₃ /PVDF composites prepared by modified process for energy storage applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 108-115.	3.0	69
25	Significantly enhancing the discharge efficiency of sandwich-structured polymer dielectrics at elevated temperature by building carrier blocking interface. <i>Nano Energy</i> , 2022, 97, 107215.	16.0	62
26	Significant enhancement in breakdown strength and energy density of the BaTiO ₃ /BaTiO ₃ @SiO ₂ layered ceramics with strong interface blocking effect. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4645-4652.	5.7	61
27	Surface functionalized Ba _{0.6} Sr _{0.4} TiO ₃ /poly(vinylidene fluoride) nanocomposites with significantly enhanced dielectric properties. <i>Applied Physics Letters</i> , 2009, 95, 202904.	3.3	58
28	Sandwich structured poly(vinylidene fluoride)/polyacrylate elastomers with significantly enhanced electric displacement and energy density. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24367-24377.	10.3	54
29	Interface thickness optimization of lead-free oxide multilayer capacitors for high-performance energy storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1858-1864.	10.3	52
30	Dielectric tunability of Ba _{0.6} Sr _{0.4} TiO ₃ /poly(methyl methacrylate) composites in 1-3-type structure. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	49
31	Self-Powered Rewritable Electrochromic Display based on WO _{3-x} Film with Mechanochemically Synthesized MoO ₃ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20326-20335.	8.0	46
32	Enhancing high-temperature capacitor performance of polymer nanocomposites by adjusting the energy level structure in the micro-/meso-scopic interface region. <i>Nano Energy</i> , 2022, 99, 107314.	16.0	45
33	Effect of the coverage level of carboxylic acids as a modifier for barium titanate nanoparticles on the performance of poly(vinylidene fluoride)-based nanocomposites for energy storage applications. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6598-6605.	2.8	43
34	Microstructure and Electromagnetic Properties of SrTiO ₃ /Ni _{0.8} Zn _{0.2} Fe ₂ O ₄ Composites by Hybrid Process. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2005-2010.	3.8	42
35	Realization of high energy density in an ultra-wide temperature range through engineering of ferroelectric sandwich structures. <i>Nano Energy</i> , 2019, 62, 725-733.	16.0	42
36	An Al@Al ₂ O ₃ @SiO ₂ /polyimide composite with multilayer coating structure fillers based on self-passivated aluminum cores. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	40

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37	Tuning conductivity and magnetism of CuFe_2O_4 via cation redistribution. RSC Advances, 2017, 7, 21926-21932.	3.6	40
38	A multifunctional smart window: detecting ultraviolet radiation and regulating the spectrum automatically. Journal of Materials Chemistry C, 2019, 7, 10446-10453.	5.5	32
39	Wide-bandgap fluorides/polyimide composites with enhanced energy storage properties at high temperatures. Chemical Engineering Journal, 2022, 435, 135059.	12.7	32
40	Interfacially Bound Exciton State in a Hybrid Structure of Monolayer WS_2 and InGaN Quantum Dots. Nano Letters, 2018, 18, 5640-5645.	9.1	29
41	Self-doped tungsten oxide films induced by <i>in situ</i> carbothermal reduction for high performance electrochromic devices. Journal of Materials Chemistry C, 2020, 8, 13999-14006.	5.5	26
42	Creation of a multilayer aluminum coating structure nanoparticle polyimide filler for electronic applications. Materials Letters, 2014, 119, 64-67.	2.6	21
43	High-Q $(\text{Na}_{1-x}\text{Ag}_x)_2\text{WO}_4$ ($x = 0.1, 0.2$) ceramics with ultra-low sintering temperature. Journal of the European Ceramic Society, 2019, 39, 4156-4159.	5.7	19
44	Preparation of ultra-low temperature sintering ceramics with ultralow dielectric loss in $\text{Na}_2\text{O} \cdot \text{WO}_3$ binary system. Journal of the American Ceramic Society, 2019, 102, 4014-4020.	3.8	17
45	Concurrently Achieving High Discharged Energy Density and Efficiency in Composites by Introducing Ultralow Loadings of Core-Shell Structured Graphene@ TiO_2 Nanoboxes. ACS Applied Materials & Interfaces, 2022, 14, 29292-29301.	8.0	17
46	Highly Stable In-Plane Microwave Magnetism in Flexible $\text{Li}_{0.35}\text{Zn}_{0.3}\text{Fe}_{2.35}\text{O}_4$ (111) Epitaxial Thin Films for Wearable Devices. ACS Applied Materials & Interfaces, 2018, 10, 32331-32336.	8.0	16
47	Temperature stable $0.35\text{Ag}_2\text{MoO}_4$ - $0.65\text{Ag}_0.5\text{Bi}_0.5\text{MoO}_4$ microwave dielectric ceramics with ultra-low sintering temperatures. Journal of the European Ceramic Society, 2019, 39, 3744-3748.	5.7	13
48	Cold-sintered $\text{Na}_2\text{WO}_4 \cdot \text{Ni}_{0.2}\text{Cu}_{0.2}\text{Zn}_{0.6}\text{Fe}_2\text{O}_4$ ceramics with matched permittivity and permeability for miniaturized antenna. Journal of the American Ceramic Society, 2021, 104, 2125-2133.	3.8	13
49	An approach combining additive manufacturing and dielectrophoresis for 3D-structured flexible lead-free piezoelectric composites for electromechanical energy conversion. Journal of Materials Chemistry A, 2021, 9, 26767-26776.	10.3	13
50	Double core shell structured $\text{Al@Al}_2\text{O}_3\text{@SiO}_2$ filled epoxy composites for thermal management application. Applied Physics Letters, 2020, 117, .	3.3	12
51	A highly transparent humidity sensor with fast response speed based on Hf-MoO_3 thin films. RSC Advances, 2020, 10, 25467-25474.	3.6	12
52	The room temperature deposition of high-quality epitaxial yttrium iron garnet thin film via RF sputtering. Journal of Alloys and Compounds, 2017, 708, 213-219.	5.5	11
53	A novel solid solution $(\text{K}_{1-x}\text{Na}_x)_2\text{Mo}_2\text{O}_7$ ($0.0 \leq x \leq 0.3$) ceramics with ultra-low sintering temperatures. Journal of the European Ceramic Society, 2018, 38, 4967-4971.	5.7	11
54	Research progress of polymer based dielectrics for high-temperature capacitor energy storage. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 217701.	0.5	10

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55	Epoxy-Based Ceramic-Polymer Composite with Excellent Millimeter-Wave Broadband Absorption Properties by Facile Approach. <i>Advanced Engineering Materials</i> , 2019, 21, 1900981.	3.5	9
56	Formation of antiphase boundaries in CuFe ₂ O ₄ films induced by rough MgAl ₂ O ₄ (001) substrates. <i>Thin Solid Films</i> , 2019, 680, 55-59.	1.8	7
57	A solid solution-based millimeter-wave absorber exhibiting highly efficient absorbing capability and ultrabroad bandwidth simultaneously <i>via</i> a multi-elemental co-doping strategy. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1381-1393.	5.5	7
58	Heterogeneous multilayer dielectric ceramics enabled by ultralow-temperature self-constrained sintering. <i>Journal of the American Ceramic Society</i> , 2020, 103, 249-257.	3.8	5
59	Chemical conversion synthesis of magnetic Fe _{1-x} Co _x alloy nanosheets with controlled composition. <i>Chemical Communications</i> , 2021, 57, 2309-2312.	4.1	5
60	Enhanced permittivity and permeability of (1-y)(Mg _{0.95} Zn _{0.05}) ₂ TiO ₄ -yMg _{0.95} Zn _{0.05} Fe ₂ O ₄ ceramics. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5367-5374.	5.7	4
61	Scaling behavior and variable-range-hopping conduction of localized polarons in percolative BaTiO ₃ -Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ ceramic composite with colossal apparent permittivity. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	2