Bingcheng Luo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	BaTiO ₃ –BiYbO ₃ perovskite materials for energy storage applications. Journal of Materials Chemistry A, 2015, 3, 18146-18153.	10.3	393
2	Fabrication, characterization, properties and theoretical analysis of ceramic/PVDF composite flexible films with high dielectric constant and low dielectric loss. Journal of Materials Chemistry A, 2014, 2, 510-519.	10.3	375
3	High temperature lead-free BNT-based ceramics with stable energy storage and dielectric properties. Journal of Materials Chemistry A, 2020, 8, 683-692.	10.3	167
4	Enhanced Energy-Storage Density and High Efficiency of Lead-Free CaTiO ₃ –BiScO ₃ Linear Dielectric Ceramics. ACS Applied Materials & Interfaces, 2017, 9, 19963-19972.	8.0	145
5	Grainâ€size–dependent dielectric properties in nanograin ferroelectrics. Journal of the American Ceramic Society, 2018, 101, 5487-5496.	3.8	121
6	Electronic structure, optical and dielectric properties of BaTiO ₃ /CaTiO ₃ /SrTiO ₃ ferroelectric superlattices from first-principles calculations. Journal of Materials Chemistry C, 2015, 3, 8625-8633.	5.5	96
7	P(VDF-HFP)/PMMA flexible composite films with enhanced energy storage density and efficiency. Composites Science and Technology, 2017, 151, 94-103.	7.8	93
8	Dielectric response and breakdown behavior of polymer-ceramic nanocomposites: The effect of nanoparticle distribution. Composites Science and Technology, 2017, 145, 105-113.	7.8	86
9	Synthesis, characterization and dielectric properties of surface functionalized ferroelectric ceramic/epoxy resin composites with high dielectric permittivity. Composites Science and Technology, 2015, 112, 1-7.	7.8	80
10	Structural and Electronic Engineering of Ir-Doped Ni-(Oxy)hydroxide Nanosheets for Enhanced Oxygen Evolution Activity. ACS Catalysis, 2021, 11, 5386-5395.	11.2	75
11	A Review on the Conventional Capacitors, Supercapacitors, and Emerging Hybrid Ion Capacitors: Past, Present, and Future. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	74
12	Central metal and ligand effects on oxygen electrocatalysis over 3d transition metal single-atom catalysts: A theoretical investigation. Chemical Engineering Journal, 2022, 427, 132038.	12.7	65
13	Preparation and characterization of carbon foams derived from aluminosilicate and phenolic resin. Carbon, 2011, 49, 1782-1786.	10.3	61
14	Giant permittivity and low dielectric loss of Fe doped BaTiO3 ceramics: Experimental and first-principles calculations. Journal of the European Ceramic Society, 2018, 38, 1562-1568.	5.7	54
15	Graphene-like monolayer monoxides and monochlorides. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17213-17218.	7.1	54
16	Multiphase Engineered BNT-Based Ceramics with Simultaneous High Polarization and Superior Breakdown Strength for Energy Storage Applications. ACS Applied Materials & Interfaces, 2021, 13, 28484-28492.	8.0	52
17	Dielectric Enhancement in Graphene/Barium Titanate Nanocomposites. ACS Applied Materials & Interfaces, 2016, 8, 3340-3348.	8.0	47
18	Superhierarchical Inorganic/Organic Nanocomposites Exhibiting Simultaneous Ultrahigh Dielectric Energy Density and High Efficiency. Advanced Functional Materials, 2021, 31, 2007994.	14.9	46

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19	Nanocomposites with enhanced dielectric permittivity and breakdown strength by microstructure design of nanofillers. Composites Science and Technology, 2017, 151, 109-114.	7.8	34
20	The properties of Al ₂ O ₃ coated fineâ€grain temperature stable BaTiO ₃ â€based ceramics sintered in reducing atmosphere. Journal of the American Ceramic Society, 2018, 101, 1245-1254.	3.8	32
21	Multiscale design of highâ€voltage multilayer energyâ€storage ceramic capacitors. Journal of the American Ceramic Society, 2018, 101, 1607-1615.	3.8	31
22	Chemical composition and temperature dependence of the energy storage properties of Ba _{1â€} <scp>_xS</scp> r _x TiO ₃ ferroelectrics. Journal of the American Ceramic Society, 2018, 101, 2976-2986.	3.8	24
23	Interfacial electronic properties of ferroelectric nanocomposites for energy storage application. Materials Today Energy, 2019, 12, 136-145.	4.7	23
24	Enhancement of strain by electrically-induced phase transitions in BNKT-based ceramics. Journal of Alloys and Compounds, 2018, 744, 535-543.	5.5	18
25	Influence of Fe doping on the crystal structure, electronic structure and supercapacitance performance of birnessite [(Na, K)x(Mn4+, Mn3+)2O4·1.5H2O] with high areal mass loading. Electrochimica Acta, 2018, 291, 31-40.	5.2	17
26	Ferroelectric properties of BaTiO3-BiScO3 weakly coupled relaxor energy-storage ceramics from first-principles calculations. Journal of Alloys and Compounds, 2021, 866, 158933.	5.5	17
27	Electronic, dielectric and optical properties of orthorhombic lanthanum gallate perovskite. Journal of Alloys and Compounds, 2017, 708, 187-193.	5.5	16
28	Thermal mismatch strain induced disorder of Y ₂ Mo ₃ O ₁₂ and its effect on thermal expansion of Y ₂ Mo ₃ O ₁₂ /Al composites. Physical Chemistry Chemical Physics, 2017, 19, 11778-11785.	2.8	16
29	Hierarchical-structured dielectric permittivity and breakdown performances of polymer-ceramic nanocomposites. Ceramics International, 2018, 44, 843-848.	4.8	15
30	Structural and electronic properties of cubic KNbO3 (001) surfaces: A first-principles study. Applied Surface Science, 2015, 351, 558-564.	6.1	14
31	Vortex domain configuration for energy-storage ferroelectric ceramics design: A phase-field simulation. Applied Physics Letters, 2021, 119, .	3.3	13
32	First-principles effective Hamiltonian simulation of ABO3-type perovskite ferroelectrics for energy storage application. Journal of Applied Physics, 2016, 120, 074106.	2.5	11
33	Reâ€entrant relaxor behavior in BaTiO ₃ â€Bi(Zn _{2/3} Nb _{1/3})O ₃ ceramics. Journal of the American Ceramic Society, 2017, 100, 511-514.	3.8	11
34	Effect of final pyrolysis temperature on the mechanical and thermal properties of carbon foams reinforced by aluminosilicate. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 558, 446-450.	5.6	10
35	Mechanism of ferroelectric properties of (BaCa)(ZrTi)O3 from first-principles calculations. Ceramics International, 2018, 44, 9684-9688.	4.8	10
36	Enhanced temperature stability of electric-field-induced strain in KNN-based ceramics. Journal of Alloys and Compounds, 2019, 786, 498-506.	5.5	9

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37	Novel atomic-scale graphene metamaterials with broadband electromagnetic wave absorption and ultra-high elastic modulus. Carbon, 2022, 196, 146-153.	10.3	9
38	Thermal-mechanical-electrical coupled design of multilayer energy storage ceramic capacitors. Ceramics International, 2017, 43, 12882-12887.	4.8	8
39	Electronic structure, elastic and thermal properties of semiconductor GaX (X = N, P, As, Sb) with zinc blende from first-principles calculation. International Journal of Modern Physics B, 2014, 28, 1450183.	2.0	7
40	Laminated structure-induced high dielectric strength and energy storage density in dielectric composites. Composites Science and Technology, 2019, 173, 61-65.	7.8	7
41	Composition and ionic change capacity variation of surfactant-intercalated MgFe-layered double hydroxides in the one step synthesis. Journal of Sol-Gel Science and Technology, 2014, 69, 26-32.	2.4	6
42	Influence of BaO-CaO-SiO ₂ on dielectric properties and reliability of BaTiO ₃ -based ceramics. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1077-1081.	1.8	6
43	Dielectric, ferroelectric, and thermodynamic properties of silicone oil modified PVDF films for energy storage application. Applied Physics Letters, 2016, 108, .	3.3	6
44	A triatomic carbon and derived pentacarbides with superstrong mechanical properties. IScience, 2022, 25, 104712.	4.1	6
45	Layered Nanosheets: Superhierarchical Inorganic/Organic Nanocomposites Exhibiting Simultaneous Ultrahigh Dielectric Energy Density and High Efficiency (Adv. Funct. Mater. 8/2021). Advanced Functional Materials, 2021, 31, 2170050.	14.9	5
46	Interfacial electronic and structural properties of SiO2(010)/BaTiO3(001) from first-principles calculations. Ceramics International, 2017, 43, 12988-12991.	4.8	4
47	Interfacial Bonding and Electronic Structure between Copper Thiocyanate and Hybrid Organohalide Lead Perovskites for Photovoltaic Application. Journal of Physical Chemistry Letters, 2019, 10, 5609-5616.	4.6	4
48	Homogeneity quantification of nanoparticles dispersion in composite materials. Polymer Composites, 2019, 40, 1000-1005.	4.6	4
49	Enhanced near-ultraviolet and visible light absorption of organic-inorganic halide perovskites by co-doping with cesium and barium: Insight from first-principles calculations. Journal of Solid State Chemistry, 2020, 289, 121477.	2.9	4
50	Electronic, structural and optical properties of cerium and zinc co-doped organic-inorganic halide perovskites for photovoltaic application. Physica B: Condensed Matter, 2021, 603, 412703.	2.7	4
51	Thermally stimulated relaxation and behaviors of oxygen vacancies in SrTiO ₃ single crystals with (100), (110) and (111) orientations. Materials Research Express, 2020, 7, 046305.	1.6	3
52	Electronic structure and optical properties of SnO2/HC(NH2)2PbI3 interfaces from first-principles calculations. Surfaces and Interfaces, 2021, 23, 100913.	3.0	3
53	Structural, electronic, and optical properties of two-dimensional hafnium monoxide nanosheets. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 130, 114690.	2.7	3
54	Core-shell structure-induced high displacement response in piezoelectric ceramics: A theoretical design. Ceramics International, 2019, 45, 8940-8944.	4.8	2

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55	Tailoring the Dimension of Halide Perovskites Enables Quantum Wires with Enhanced Visible Light Absorption. Journal of Physical Chemistry C, 2020, 124, 11124-11131.	3.1	1