

# Jiwei Zhai

## List of Publications by Year in descending order

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244  
papers

13,469  
citations

18482

62  
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29157

104  
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244  
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244  
docs citations

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times ranked

4549  
citing authors

#	ARTICLE	IF	CITATIONS
1	Realizing high-performance capacitive energy storage in lead-free relaxor ferroelectrics via synergistic effect design. <i>Journal of the European Ceramic Society</i> , 2022, 42, 129-139.	5.7	39
2	Non-volatile multi-level cell storage via sequential phase transition in $\text{Sb}_{7/3}\text{Te}_3/\text{GeSb}_6\text{Te}$ multilayer thin film. <i>Nanotechnology</i> , 2022, 33, 075701.	2.6	6
3	Achieving synergistic electromechanical and electrocaloric responses by local structural evolution in lead-free BNT-based relaxor ferroelectrics. <i>Chemical Engineering Journal</i> , 2022, 431, 133386.	12.7	13
4	Simultaneously achieving high energy-storage efficiency and density in Bi-modified $\text{SrTiO}_3$ -based relaxor ferroelectrics by ion selective engineering. <i>Composites Part B: Engineering</i> , 2022, 230, 109493.	12.0	52
5	Isothermal phase transition across phase boundary in $(\text{Pb}_{0.95}\text{Ba}_{0.05})\text{ZrO}_3$ ceramics. <i>Applied Physics Letters</i> , 2022, 120, 023902.	3.3	2
6	Eco-friendly cooling materials with synergistic behavior of electromechanical and electrocaloric effects based on constructing B-site defect field. <i>Applied Materials Today</i> , 2022, 26, 101332.	4.3	2
7	Three-dimensional polypyrrole induced high-performance flexible piezoelectric nanogenerators for mechanical energy harvesting. <i>Composites Science and Technology</i> , 2022, 219, 109260.	7.8	22
8	Composition and Structure Optimized $\text{BiFeO}_3/\text{SrTiO}_3$ Lead-Free Ceramics with Ultrahigh Energy Storage Performance. <i>Small</i> , 2022, 18, e2106515.	10.0	82
9	Piezoelectric enhancement and vacancy defect reduction of lead-free $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ -based thin films. <i>Ceramics International</i> , 2022, 48, 12601-12607.	4.8	7
10	Interfacial polarization regulation of ultrathin 2D nanosheets inducing high energy storage density of polymer-based nanocomposite with opposite gradient architecture. <i>Energy Storage Materials</i> , 2022, 46, 503-511.	18.0	23
11	One doping strategy to simultaneously lower the sintering temperature and increase the energy storage properties. <i>Chemical Engineering Journal</i> , 2022, 434, 134660.	12.7	7
12	Intelligent self-actuating lead-free cooling ceramics based on A-site defect engineering. <i>Acta Materialia</i> , 2022, 227, 117750.	7.9	17
13	Two-Dimensional Fillers Induced Superior Electrostatic Energy Storage Performance in Trilayered Architecture Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 8448-8457.	8.0	30
14	Chemical nature of the enhanced energy storage in A-site defect engineered $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ -based relaxor ferroelectrics. <i>Journal of Alloys and Compounds</i> , 2022, 905, 164183.	5.5	15
15	Morphotropic Relaxor Boundary Construction Highly Boosts the Piezoelectric Properties of Bi-Based Lead-Free Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 8115-8125.	8.0	17
16	Ultrahigh energy harvesting properties in temperature-insensitive eco-friendly high-performance KNN-based textured ceramics. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7978-7988.	10.3	58
17	Superior energy storage performance in $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ -based lead-free relaxor ferroelectrics for dielectric capacitor application via multiscale optimization design. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9535-9546.	10.3	70
18	Uncovering the physical properties, structural characteristics, and electronic application of superlattice-like Ti/Sb phase-change thin films. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 245102.	2.8	3

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19	Excellent energy storage performance of niobate-based glass-ceramics via introduction of nucleating agent. <i>Journal of Materiomics</i> , 2022, 8, 763-771.	5.7	18
20	Tunable Domain Switching Features of Incommensurate Antiferroelectric Ceramics Realizing Excellent Energy Storage Properties. <i>Advanced Materials</i> , 2022, 34, e2201333.	21.0	62
21	Synergy of a Stabilized Antiferroelectric Phase and Domain Engineering Boosting the Energy Storage Performance of $\text{NaNbO}_3$ -Based Relaxor Antiferroelectric Ceramics. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 17662-17673.	8.0	48
22	Crystallization-temperature controlled alkali-free niobate glass-ceramics with high energy storage density and actual discharge energy density. <i>Journal of Alloys and Compounds</i> , 2022, 910, 164923.	5.5	7
23	Semiconducting piezoelectric heterostructures for piezo- and piezophotocatalysis. <i>Nano Energy</i> , 2022, 96, 107141.	16.0	69
24	Constructing novel binary $\text{Bi}_0.5\text{Na}_0.5\text{TiO}_3$ -based composite ceramics for excellent energy storage performances via defect engineering. <i>Chemical Engineering Journal</i> , 2022, 439, 135762.	12.7	28
25	Achieving ultrahigh discharge energy and power density in niobate-based glass ceramics via A-site substitution modulation during crystallization. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11535-11541.	10.3	13
26	Efficient Production of Solar Hydrogen Peroxide Using Piezoelectric Polarization and Photoinduced Charge Transfer of Nanopiezoelectrics Sensitized by Carbon Quantum Dots. <i>Advanced Science</i> , 2022, 9, e2105792.	11.2	26
27	Superior energy storage properties in $\text{NaNbO}_3$ -based ceramics synergistically optimizing domain and band structures. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11613-11624.	10.3	40
28	High depolarization temperature and superior piezoelectric performance with complex structural evolution in $\text{BiFeO}_3\text{PbTiO}_3\text{--}(\text{Sr}_{0.7}\text{Bi}_{0.2}\text{--}x\text{Ti}_{0.1})\text{TiO}_3$ systems. <i>Journal of Materiomics</i> , 2022, 8, 1260-1268.	5.7	3
29	Simultaneously achieving high performance of energy storage and transparency via A-site non-stoichiometric defect engineering in KNN-based ceramics. <i>Chemical Engineering Journal</i> , 2022, 444, 136538.	12.7	42
30	Tailoring micro-structure of eco-friendly temperature-insensitive transparent ceramics achieving superior piezoelectricity. <i>Acta Materialia</i> , 2022, 235, 118061.	7.9	12
31	Ultra-sensitive flexible piezoelectric energy harvesters inspired by pine branches for detection. <i>Nano Energy</i> , 2022, 99, 107422.	16.0	11
32	Hidden piezoelectric performances of $\text{BiFeO}_3$ -based textured ceramics. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3636-3642.	6.0	1
33	Polarization Rotation Control Domain Dynamic Response Modulates Piezoelectric Properties of Lead-Free Thin Films. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	1
34	Enhancement of recoverable energy density and efficiency of lead-free relaxor-ferroelectric BNT-based ceramics. <i>Chemical Engineering Journal</i> , 2021, 406, 126818.	12.7	123
35	Optimization the energy density and efficiency of $\text{BaTiO}_3$ -based ceramics for capacitor applications. <i>Chemical Engineering Journal</i> , 2021, 409, 127375.	12.7	83
36	Enhanced piezoelectricity and reduced leakage current of a novel $(1-x)\text{TbTiO}_3$ -based $\text{Bi}_{1-x}\text{Fe}_x\text{TiO}_3$ thin film. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 700-710.	6.0	17

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37	Revisiting structural evolution, dielectric and ferroelectric properties in (Pb Ba <sub>1-x</sub> )ZrO <sub>3</sub> system (0.5 ≤ x ≤ 1.0). <i>Ceramics International</i> , 2021, 47, 7430-7437.	4.8	6
38	A superior stable interlayer for dendrite-free solid-state lithium metal batteries. <i>Chemical Engineering Journal</i> , 2021, 421, 127727.	12.7	20
39	Significantly Improvement of Comprehensive Energy Storage Performances with Lead-free Relaxor Ferroelectric Ceramics for High-temperature Capacitors Applications. <i>Acta Materialia</i> , 2021, 203, 116484.	7.9	149
40	Synergistic optimization of antiferroelectric ceramics with superior energy storage properties via phase structure engineering. <i>Energy Storage Materials</i> , 2021, 35, 114-121.	18.0	50
41	Effects of crystalline temperature on microstructures and dielectric properties in BaO-Na <sub>2</sub> O-Bi <sub>2</sub> O <sub>3</sub> -Nb <sub>2</sub> O <sub>5</sub> -Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glass-ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 263, 114885.	3.5	12
42	Improved piezoelectricity and energy storage performance simultaneously achieved in [001]-preferentially oriented Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> –BaTiO <sub>3</sub> –BiMnO <sub>3</sub> thin films grown on Nb-doped SrTiO <sub>3</sub> single-crystalline substrates. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2539-2547.	5.7	16
43	Substantially improved energy storage capability of ferroelectric thin films for application in high-temperature capacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9281-9290.	10.3	27
44	Fatigue-less relaxor ferroelectric thin films with high energy storage density via defect engineer. <i>Journal of Materials Science and Technology</i> , 2021, 77, 178-186.	10.7	31
45	Realizing high comprehensive energy storage performances of BNT-based ceramics for application in pulse power capacitors. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2548-2558.	5.7	72
46	Optimization of polarization and electric field of bismuth ferrite-based ceramics for capacitor applications. <i>Chemical Engineering Journal</i> , 2021, 417, 127945.	12.7	100
47	Ameliorative energy-storage properties stemmed from the refined grains in PBLZS antiferroelectric ceramics via introducing liquid phase sintering. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2450-2457.	5.7	32
48	Ferroelectric-relaxor crossover induce large electrocaloric effect with ultrawide temperature span in NaNbO <sub>3</sub> -based lead-free ceramics. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	20
49	Ultrahigh energy storage performance of a polymer-based nanocomposite <i>via</i> interface engineering. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3530-3539.	10.3	29
50	High energy storage density with high power density in Bi <sub>0.2</sub> Sr <sub>0.7</sub> TiO <sub>3</sub> /BiFeO <sub>3</sub> multilayer thin films. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4652-4660.	5.5	20
51	Simultaneously improved transparency, photochromic contrast and Curie temperature<i>via</i> rare-earth ion modification in KNN-based ceramics. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2027-2035.	6.0	30
52	Performances variations of BiFeO <sub>3</sub> -based ceramics induced by additives with diverse phase structures. <i>CrystEngComm</i> , 2021, 23, 1596-1603.	2.6	9
53	Expedient Red Emitting and Transparency Dual Modulation in KNN-Based Transparent Ceramics via Sensitive Photothermochromic Behavior. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1394-1402.	4.3	19
54	Physical properties and structure characteristics of titanium-modified antimony-selenium phase change thin film. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	12

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55	Potential High-Temperature Piezoelectric Ceramics with Remarkable Performances Enhanced by the Second-Order Jahnâ€Teller Effect. ACS Applied Materials & Interfaces, 2021, 13, 14385-14393.	8.0	17
56	High Performance Generation of H <sub>2</sub> O <sub>2</sub> under Piezophototronic Effect with Multiâ€Layer In <sub>2</sub> S <sub>3</sub> Nanosheets Modified by Spherical ZnS and BaTiO <sub>3</sub> Nanopiezoelectrics. Small Methods, 2021, 5, e2100269.	8.6	34
57	Simultaneously Realizing Superior Energy Storage Properties and Outstanding Chargeâ€Discharge Performances in Tungsten Bronze-Based Ceramic for Capacitor Applications. Inorganic Chemistry, 2021, 60, 6559-6568.	4.0	46
58	Crystallization characteristic and structure of hafnium addition in germanium antimony thin films for phase change memory. Journal of Alloys and Compounds, 2021, 864, 158893.	5.5	3
59	Enhanced Sunlight-Driven Reactive Species Generation via Polarization Field in Nanopiezoelectric Heterostructures. ACS Applied Materials & Interfaces, 2021, 13, 29691-29707.	8.0	8
60	Significantly Photoâ€Thermochromic KNNâ€Based â€Smart Windowâ€for Sustainable Optical Data Storage and Antiâ€Counterfeiting. Advanced Optical Materials, 2021, 9, 2100580.	7.3	39
61	Cr <sub>7</sub> Ge <sub>33</sub> Te <sub>60</sub> /Hf <sub>16</sub> Ge <sub>6</sub> Sb <sub>78</sub> Superlatticeâ€Like Thin Film with Tripleâ€Phase Transitions for Multilevel Phaseâ€Change Memory. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100222.	2.4	4
62	2D Fillers Highly Boost the Discharge Energy Density of Polymerâ€Based Nanocomposites with Trilayered Architecture. Advanced Functional Materials, 2021, 31, 2102646.	14.9	56
63	Simultaneously ultra-low dielectric loss and rapid discharge time in Ta2O5 doped niobate-based glassâ€ceramics. Journal of Materials Science, 2021, 56, 16278-16289.	3.7	7
64	Relaxor ferroelectric (Bi0.5Na0.5)TiO3-based ceramic with remarkable comprehensive energy storage performance under low electric field for capacitor applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 21164-21177.	2.2	9
65	Cu-Doped Alloy Layer Guiding Uniform Li Deposition on a Liâ€LLZO Interface under High Current Density. ACS Applied Materials & Interfaces, 2021, 13, 42212-42219.	8.0	23
66	Defect Management and Multiâ€Mode Optoelectronic Manipulations via Photoâ€Thermochromism in Smart Windows. Laser and Photonics Reviews, 2021, 15, 2100211.	8.7	66
67	Performance Improvement of Sb Phase Change Thin Film by Y Doping. ECS Journal of Solid State Science and Technology, 2021, 10, 093002.	1.8	6
68	Ultrahigh Energy Storage Performance of Layered Polymer Nanocomposites over a Broad Temperature Range. Advanced Materials, 2021, 33, e2103338.	21.0	96
69	(Bi0.5Na0.5)TiO3-based relaxor ferroelectrics with simultaneous high energy storage properties and remarkable charge-discharge performances under low working electric fields for dielectric capacitor applications. Ceramics International, 2021, 47, 25800-25809.	4.8	25
70	Comparative study of phase structure, dielectric properties and electrocaloric effect in novel high-entropy ceramics. Journal of Materials Science, 2021, 56, 18417-18429.	3.7	16
71	Construction of multi-domain coexistence enhanced piezoelectric properties of Bi0.5Na0.5TiO3-based thin films. Journal of the European Ceramic Society, 2021, 41, 6456-6464.	5.7	11
72	Macrodomain structure formed in (Sr0.7Bi0.2â€i0.1)TiO3-modified Bi0.5Na0.4 K0.1TiO3 thin film. Ceramics International, 2021, 47, 26955-26962.	4.8	3

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73	Ta-doped Ge <sub>5</sub> Sb <sub>95</sub> phase change thin films for high speed and low power application. Journal of Non-Crystalline Solids, 2021, 571, 121069.	3.1	6
74	High breakdown strength and enhanced energy storage performance of niobate-based glass-ceramics via glass phase structure optimization. Ceramics International, 2021, 47, 31229-31237.	4.8	10
75	Sandwich structured lead-free ceramics based on Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> for high energy storage. Chemical Engineering Journal, 2021, 425, 130669.	12.7	49
76	Significantly enhanced energy storage performances and power density in (1-x)BCZT-xSBT lead-free ceramics via synergistic optimization strategy. Chemical Engineering Journal, 2021, 426, 130800.	12.7	42
77	Rapid poling under low direct current field of [001] oriented BiFeO <sub>3</sub> -based lead-free ceramics. Scripta Materialia, 2021, 205, 114181.	5.2	8
78	High capacitive performance at moderate operating field in (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -based dielectric ceramics via synergistic effect of site engineering strategy. Chemical Engineering Journal, 2021, 426, 130811.	12.7	45
79	Excellent energy storage properties and superior stability achieved in lead-free ceramics via a spatial sandwich structure design strategy. Journal of Materials Chemistry A, 2021, 9, 15827-15835.	10.3	44
80	Optimizing the energy storage properties of antiferroelectric ceramics by modulating the phase structure via constructing a novel binary composite. Journal of Materials Chemistry A, 2021, 9, 11291-11299.	10.3	16
81	Achieving Superior Energy Storage Properties and Ultrafast Discharge Speed in Environment-Friendly Niobate-Based Glass Ceramics. ACS Applied Materials & Interfaces, 2021, 13, 4236-4243.	8.0	32
82	Reactive Oxygenated Species Generated on Iodide-Doped BiVO <sub>4</sub> /BaTiO <sub>3</sub> Heterostructures with Ag/Cu Nanoparticles by Coupled Piezophototronic Effect and Plasmonic Excitation. Advanced Functional Materials, 2021, 31, 2009594.	14.9	80
83	Coexistence of excellent piezoelectric performance and thermal stability in KNN-based lead-free piezoelectric ceramics. Ceramics International, 2020, 46, 1390-1395.	4.8	33
84	Electrocaloric effect in BNT-based lead-free ceramics by local-structure and phase-boundary evolution. Journal of Alloys and Compounds, 2020, 817, 152794.	5.5	20
85	Reduced leakage current and enhanced piezoelectricity of BNT-BT-BMO thin films. Journal of the American Ceramic Society, 2020, 103, 1219-1229.	3.8	16
86	Greatly enhanced discharge energy density and efficiency of novel relaxation ferroelectric BNT-BKT-based ceramics. Journal of Materials Chemistry C, 2020, 8, 591-601.	5.5	224
87	Zn-doped Sb <sub>70</sub> Se <sub>30</sub> thin films with multiple phase transition for high storage density and low power consumption phase change memory applications. Scripta Materialia, 2020, 178, 324-328.	5.2	13
88	High energy storage performance and fast discharging speed in dense 0.7Bi <sub>0.5</sub> K <sub>0.5</sub> TiO <sub>3</sub> -0.3SrTiO <sub>3</sub> ceramics via a novel rolling technology. Ceramics International, 2020, 46, 6995-6998.	4.8	23
89	High piezoelectricity and stable output in BaHfO <sub>3</sub> and (Bi <sub>0.5</sub> Na <sub>0.5</sub> )ZrO <sub>3</sub> modified (K <sub>0.5</sub> Na <sub>0.5</sub> )(Nb <sub>0.96</sub> Sb <sub>0.04</sub> )O <sub>3</sub> textured ceramics. Acta Materialia, 2020, 199, 542-550.	7.9	36
90	The optimization effect of titanium on the phase change properties of SnSb <sub>4</sub> thin films for phase change memory applications. CrystEngComm, 2020, 22, 5002-5009.	2.6	4



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91	Multi-domain BNiTi modification enhanced the piezoelectric properties of BNT-based lead-free thin films. Journal of Materials Chemistry C, 2020, 8, 17114-17121.	5.5	17
92	Giant Field-Induced Strain with Low Hysteresis and Boosted Energy Storage Performance under Low Electric Field in (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -Based Grain Orientation-Controlled Ceramics. Advanced Electronic Materials, 2020, 6, 2000332.	5.1	59
93	Remarkable Piezophoto Coupling Catalysis Behavior of BiOX/BaTiO <sub>3</sub> (X = Cl, Br). TJ ETQq1 1 0.784314 10.0 / Overlock 10	10.0	133
94	Ultrahigh breakdown strength and energy density of polymer nanocomposite containing surface insulated BCZT@BN nanofibers. Composites Science and Technology, 2020, 195, 108209.	7.8	24
95	Normal-relaxor ferroelectric phase transition induced morphotropic phase boundary accompanied by enhanced piezoelectric and electrostrain properties in strontium modulated Bi <sub>0.5</sub> K <sub>0.5</sub> TiO <sub>3</sub> lead-free ceramics. Journal of the European Ceramic Society, 2020, 40, 3918-3927.	5.7	23
96	Tailoring high energy density with superior stability under low electric field in novel (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -based relaxor ferroelectric ceramics. Journal of the European Ceramic Society, 2020, 40, 4475-4486.	5.7	123
97	Superior energy storage properties and excellent stability achieved in environment-friendly ferroelectrics via composition design strategy. Nano Energy, 2020, 75, 105012.	16.0	205
98	Integrating chemical engineering and crystallographic texturing design strategy for the realization of practically viable lead-free sodium bismuth titanate-based incipient piezoceramics. Dalton Transactions, 2020, 49, 8661-8671.	3.3	10
99	Significantly enhanced energy storage density and efficiency of BNT-based perovskite ceramics via A-site defect engineering. Energy Storage Materials, 2020, 30, 392-400.	18.0	298
100	Influences of rare earth site engineering on piezoelectric and electromechanical response of (Ba <sub>0.85</sub> Ca <sub>0.15</sub> )(Zr <sub>0.1</sub> Ti <sub>0.9</sub> )O <sub>3</sub> lead-free ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 6560-6573.	2.2	9
101	Improving electromechanical properties in KNiNS-BNZ ceramics by the synergy between phase structure modification and grain orientation. Journal of Materials Chemistry C, 2020, 8, 6149-6158.	5.5	14
102	Enhanced piezoelectric properties of (1 - x)BiFe <sub>0.98</sub> (Zn <sub>0.5</sub> Hf <sub>0.5</sub> ) <sub>0.02</sub> O <sub>3</sub> -xBaTiO <sub>3</sub> ceramics near the morphotropic phase boundary. Dalton Transactions, 2020, 49, 5573-5580.	3.3	9
103	Enhanced energy storage capability of (1-x)Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -xSr <sub>0.7</sub> Bi <sub>0.2</sub> TiO <sub>3</sub> free-lead relaxor ferroelectric thin films. Ceramics International, 2020, 46, 14816-14821.	4.8	29
104	Revealing the relationship between morphotropic phase boundary and tolerance factor of Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -based thin films. Journal of the European Ceramic Society, 2020, 40, 2954-2963.	5.7	16
105	Fatigue-Free Aurivillius Phase Ferroelectric Thin Films with Ultrahigh Energy Storage Performance. Advanced Energy Materials, 2020, 10, 2001536.	19.5	114
106	B-site-doped BiFeO <sub>3</sub> -based piezoceramics with enhanced ferro/piezoelectric properties and good temperature stability. Journal of the American Ceramic Society, 2020, 103, 6245-6254.	3.8	33
107	Ultralow Electrical Hysteresis along with High Energy Storage Density in Lead-Based Antiferroelectric Ceramics. Advanced Electronic Materials, 2020, 6, 1901366.	5.1	81
108	Realizing superior energy storage properties in lead-free ceramics via a macro-structure design strategy. Journal of Materials Chemistry A, 2020, 8, 11656-11664.	10.3	82

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109	Enhanced energy-storage density in sodium-barium-niobate based glass-ceramics realized by doping CaF <sub>2</sub> nucleating agent. Journal of Materials Science: Materials in Electronics, 2019, 30, 15277-15284.	2.2	8
110	SbSe/ZnSb stacked thin films with multi-level phase transition for high density phase change memory applications. Journal of Materials Science: Materials in Electronics, 2019, 30, 15024-15030.	2.2	4
111	<i>In-situ</i> investigation on the crystallization property and microstructure evolution induced by thermal annealing and electron beam irradiation of titanium antimony thin film. Applied Physics Letters, 2019, 115, .	3.3	11
112	Excellent energy storage density and charge-discharge performance of a novel Bi <sub>0.2</sub> Sr <sub>0.7</sub> TiO <sub>3</sub> -BiFeO <sub>3</sub> thin film. Journal of Materials Chemistry C, 2019, 7, 10891-10900.	5.5	42
113	A Study on the Relationship Between Grain Size and Electrical Properties in (K,Na)NbO <sub>3</sub> -Based Lead-Free Piezoelectric Ceramics. Advanced Electronic Materials, 2019, 5, 1900570.	5.1	50
114	Improvement of phase change speed and thermal stability in Ge <sub>5</sub> Sb <sub>95</sub> /ZnSb multilayer thin films for phase change memory application. Semiconductor Science and Technology, 2019, 34, 105022.	2.0	4
115	Ultrahigh Energy Storage Density and Excellent Charge-Discharge Properties of Bi <sub>2</sub> O <sub>3</sub> -Nb <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Glass Ceramic with CeO <sub>2</sub> Doping. Journal of Electronic Materials, 2019, 48, 6183-6188.	2.2	5
116	Fine-grain induced outstanding energy storage performance in novel Bi <sub>0.5</sub> K <sub>0.5</sub> TiO <sub>3</sub> -Ba(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ceramics <i>via</i> a hot-pressing strategy. Journal of Materials Chemistry C, 2019, 7, 12127-12138.	5.5	119
117	Piezophototronic effect in enhancing charge carrier separation and transfer in ZnO/BaTiO <sub>3</sub> heterostructures for high-efficiency catalytic oxidation. Nano Energy, 2019, 66, 104127.	16.0	163
118	Excellent energy storage and charge-discharge performances in sodium-barium-niobium based glass ceramics. Ceramics International, 2019, 45, 19429-19434.	4.8	14
119	Multifunctionality of lead-free BiFeO <sub>3</sub> -based ergodic relaxor ferroelectric ceramics: High energy storage performance and electrocaloric effect. Journal of Alloys and Compounds, 2019, 803, 185-192.	5.5	79
120	Tailoring frequency-insensitive large field-induced strain and energy storage properties in (Ba <sub>0.85</sub> Ca <sub>0.15</sub> )(Zr <sub>0.1</sub> Ti <sub>0.9</sub> )O <sub>3</sub> -modified (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> lead-free ceramics. Dalton Transactions, 2019, 48, 10160-10173.	3.3	59
121	Highly enhanced discharged energy density of polymer nanocomposites <i>via</i> a novel hybrid structure as fillers. Journal of Materials Chemistry A, 2019, 7, 15347-15355.	10.3	89
122	Simultaneously enhanced discharge energy density and efficiency in nanocomposite film capacitors utilizing two-dimensional NaNbO <sub>3</sub> @Al <sub>2</sub> O <sub>3</sub> platelets. Nanoscale, 2019, 11, 10546-10554.	5.6	93
123	Flexible antiferroelectric thick film deposited on nickel foils for high energy-storage capacitor. Journal of the American Ceramic Society, 2019, 102, 6107-6114.	3.8	28
124	Designing novel sodium bismuth titanate lead-free incipient perovskite for piezoactuator applications. Journal of the American Ceramic Society, 2019, 102, 6751-6759.	3.8	12
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240	Correlation Between the Microstructure and Electrical Properties in High-Performance $(\text{Ba}_{0.85}\text{Ca}_{0.15})(\text{Zr}_{0.4}\text{Sn}_{0.1}\text{Ti}_{0.5})\text{O}_3$ Lead-Free Piezoelectric Ceramics. Journal of the American Ceramic Society, 2012, 95, 1998-2006.	3.4	30
241	Thickness-dependent dielectric and tunable properties of barium stannate titanate thin films. Journal of Applied Physics, 2009, 106, .	2.5	20
242	Phase transformation and electric field tunable pyroelectric behavior of $\text{Pb}(\text{Nb,Zr,Sn,Ti})\text{O}_3$ and $(\text{Pb,Lu})(\text{Zr,Sn,Ti})\text{O}_3$ antiferroelectric thin films. Applied Physics Letters, 2006, 88, 132908.	3.3	60
243	Uncooled tunable pyroelectric response of antiferroelectric $\text{Pb}_{0.97}\text{La}_{0.02}(\text{Zr}_{0.65}\text{Sn}_{0.22}\text{Ti}_{0.13})\text{O}_3$ perovskite. Applied Physics Letters, 2005, 87, 192904.	3.3	45
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