

Ultrahigh-energy density lead-free dielectric films vi

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Relaxor Ferroelectric Capacitors Embrace Polymorphic Nanodomains. <i>Joule</i> , 2019, 3, 2296-2298.	11.7	10
2	Energy storage enhancement of P(VDF-TrFE-CFE)-based composites with double-shell structured BZCT nanofibers of parallel and orthogonal configurations. <i>Nano Energy</i> , 2019, 66, 104195.	8.2	89
3	Design of an all-inorganic flexible Na _{0.5} Bi _{0.5} TiO ₃ -based film capacitor with giant and stable energy storage performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22366-22376.	5.2	62
4	Broad-temperature-span and large electrocaloric effect in lead-free ceramics utilizing successive and metastable phase transitions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25526-25536.	5.2	63
5	Realizing high comprehensive energy storage performance in lead-free bulk ceramics via designing an unmatched temperature range. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27256-27266.	5.2	223
6	Achieving ultrahigh energy storage performance in bismuth magnesium titanate film capacitors via amorphous-structure engineering. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13632-13639.	2.7	45
7	Achieve ultrahigh energy storage performance in BaTiO ₃ Bi(Mg _{1/2} Ti _{1/2})O ₃ relaxor ferroelectric ceramics via nano-scale polarization mismatch and reconstruction. <i>Nano Energy</i> , 2020, 67, 104264.	8.2	320
8	A novel lead-free and high-performance barium strontium titanate-based thin film capacitor with ultrahigh energy storage density and giant power density. <i>Journal of Materials Chemistry C</i> , 2020, 8, 50-57.	2.7	49
9	Significantly enhanced energy storage performance by constructing TiO ₂ nanowire arrays in PbZrO ₃ -based antiferroelectric films. <i>Ceramics International</i> , 2020, 46, 6436-6442.	2.3	8
10	High energy-storage performance of PLZS antiferroelectric multilayer ceramic capacitors. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 756-764.	3.0	59
11	Developing a novel high performance NaNbO ₃ -based lead-free dielectric capacitor for energy storage applications. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1225-1233.	2.5	37
12	Design strategy of barium titanate/polyvinylidene fluoride-based nanocomposite films for high energy storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 884-917.	5.2	151
13	Novel Ca doped Sr _{0.7} Bi _{0.2} TiO ₃ lead-free relaxor ferroelectrics with high energy density and efficiency. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1938-1946.	2.8	99
14	Superior Energy Storage Capacitors with Simultaneously Giant Energy Density and Efficiency Using Nanodomain Engineered BiFeO ₃ BiBaTiO ₃ NaNbO ₃ Lead-Free Bulk Ferroelectrics. <i>Advanced Energy Materials</i> , 2020, 10, 1903338.	10.2	329
15	Enhanced electromechanical properties of SrTiO ₃ -BiFeO ₃ -BaTiO ₃ ceramics via relaxor behavior and phase boundary design. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1198-1204.	2.8	40
16	High energy-storage density under low electric field in lead-free relaxor ferroelectric film based on synergistic effect of multiple polar structures. <i>Journal of Power Sources</i> , 2020, 448, 227457.	4.0	56
17	Heterostructures: new opportunities for functional materials. <i>Materials Research Letters</i> , 2020, 8, 49-59.	4.1	86
18	Progress, Outlook, and Challenges in Lead-Free Energy Storage Ferroelectrics. <i>Advanced Electronic Materials</i> , 2020, 6, 1900698.	2.6	154

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19	Enhancement of energy density in novel Ba _{0.67} Sr _{0.33} TiO ₃ nanorod array nanocomposites. <i>Materials and Design</i> , 2020, 195, 109044.	3.3	17
20	Probing the Interface Activation in Designing Defect-Free Multilayered Polymer Nanocomposites for Dielectric Capacitor Applications. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22914-22924.	1.5	18
21	Piezoelectric Ba and Ti co-doped BiFeO ₃ textured films: selective growth of solid solutions or nanocomposites. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16168-16179.	2.7	8
22	Study of Dielectric Characteristics and Energy Storage Properties of Sr _{0.7} Bi _{0.2} Ti ₃ Doped with CaTi ₃ . <i>Key Engineering Materials</i> , 0, 842, 168-173.	0.4	3
23	Multiscale structural engineering of dielectric ceramics for energy storage applications: from bulk to thin films. <i>Nanoscale</i> , 2020, 12, 17165-17184.	2.8	131
24	Three-dimensional nonlinear photonic crystal in naturally grown potassium tantalate niobate perovskite ferroelectrics. <i>Light: Science and Applications</i> , 2020, 9, 193.	7.7	22
25	Relaxor Nature and Energy Storage Properties of Sr ₂ M _x NaNb ₅ Ti _x O ₁₅ (M = La ₃₊ and Ho ₃₊) Tungsten Bronze Ceramics. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17527-17539.	3.2	32
26	Simultaneously achieved high energy-storage density and efficiency in BaTiO ₃ -Bi(Ni ₂ /3Ta ₁ /3)O ₃ lead-free relaxor ferroelectrics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 22780-22788.	1.1	17
27	Elaborately fabricated polytetrafluoroethylene film exhibiting superior high-temperature energy storage performance. <i>Applied Materials Today</i> , 2020, 21, 100882.	2.3	20
28	Significantly enhanced electrostatic energy storage performance of P(VDF-HFP)/BaTiO ₃ -Bi(Li _{0.5} Nb _{0.5})O ₃ nanocomposites. <i>Nano Energy</i> , 2020, 78, 105247.	8.2	151
29	Unveiling the ferroelectric nature of PbZrO ₃ -based antiferroelectric materials. <i>Nature Communications</i> , 2020, 11, 3809.	5.8	81
30	Ultrahigh energy density and thermal stability in sandwich-structured nanocomposites with dopamine@Ag@BaTiO ₃ . <i>Energy Storage Materials</i> , 2020, 31, 492-504.	9.5	80
31	Giant Field-Induced Strain with Low Hysteresis and Boosted Energy Storage Performance under Low Electric Field in (Bi _{0.5} Na _{0.5})TiO ₃ -Based Grain Orientation-Controlled Ceramics. <i>Advanced Electronic Materials</i> , 2020, 6, 2000332.	2.6	59
32	Enhanced energy storage properties and temperature stability of fatigue-free La-modified PbZrO ₃ films under low electric fields. <i>Science China Materials</i> , 2020, 63, 2325-2334.	3.5	20
33	Effect of octahedron tilt on the structure and magnetic properties of bismuth ferrite. <i>Journal of Advanced Ceramics</i> , 2020, 9, 641-646.	8.9	28
34	Ultra-high energy storage performance in lead-free multilayer ceramic capacitors via a multiscale optimization strategy. <i>Energy and Environmental Science</i> , 2020, 13, 4882-4890.	15.6	88
35	Excellent energy storage performance for P(VDF-TrFE-CFE) composites by filling core-shell structured inorganic fibers. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 21128-21141.	1.1	11
36	Constructing phase boundary in AgNbO ₃ antiferroelectrics: pathway simultaneously achieving high energy density and efficiency. <i>Nature Communications</i> , 2020, 11, 4824.	5.8	298

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37	Giant energy storage density in lead-free dielectric thin films deposited on Si wafers with an artificial dead-layer. <i>Nano Energy</i> , 2020, 78, 105390.	8.2	46
38	Mesoscale origin of dielectric relaxation with superior electrostrictive strain in bismuth ferrite-based ceramics. <i>Materials Horizons</i> , 2020, 7, 3011-3020.	6.4	39
39	High energy density and high efficiency achieved in the Ca _{0.74} Sr _{0.26} Zr _{0.7} Ti _{0.3} O ₃ linear dielectric thin films on the silicon substrates. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	18
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42	Dielectric films for high performance capacitive energy storage: multiscale engineering. <i>Nanoscale</i> , 2020, 12, 19582-19591.	2.8	69
43	Excellent energy storage density and efficiency in lead-free Sm-doped BaTiO ₃ –Bi(Mg _{0.5} Ti _{0.5})O ₃ ceramics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13405-13414.	2.7	55
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50	Progress in lead-free piezoelectric nanofiller materials and related composite nanogenerator devices. <i>Nanoscale Advances</i> , 2020, 2, 3131-3149.	2.2	62
51	Significantly improved high-temperature performance of polymer dielectric via building nanosheets and confined space. <i>Composites Part B: Engineering</i> , 2020, 196, 108108.	5.9	22
52	Recent advances in rational design of polymer nanocomposite dielectrics for energy storage. <i>Nano Energy</i> , 2020, 74, 104844.	8.2	138
53	Enhanced Energy Storage Performance of Lead-Free Capacitors in an Ultrawide Temperature Range <i>via</i> Engineering Paraferrroelectric and Relaxor Ferroelectric Multilayer Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25930-25937.	4.0	35
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56	Perovskite lead-free piezoelectric ceramics. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	147
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60	Design of flexible inorganic BiFe _{0.93} Mn _{0.07} O ₃ ferroelectric thin films for nonvolatile memory. <i>Journal of Materiomics</i> , 2020, 6, 600-606.	2.8	13
61	Effective Strategy to Achieve Excellent Energy Storage Properties in Lead-Free BaTiO ₃ -Based Bulk Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30289-30296.	4.0	191
62	Controlling the crystallization of Nd-doped Bi ₄ Ti ₃ O ₁₂ thin-films for lead-free energy storage capacitors. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	17
63	Remarkably enhanced energy storage properties of lead-free Ba _{0.53} Sr _{0.47} TiO ₃ thin films capacitors by optimizing bottom electrode thickness. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5475-5482.	2.8	14
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67	Strain engineering of dischargeable energy density of ferroelectric thin-film capacitors. <i>Nano Energy</i> , 2020, 72, 104665.	8.2	44
68	Polymer nanocomposites with high energy density and improved charge-discharge efficiency utilizing hierarchically-structured nanofillers. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6576-6585.	5.2	74
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71	Finite-size effects in lead scandium tantalate relaxor thin films. <i>Physical Review B</i> , 2020, 101, .	1.1	11
72	Origin of functionality for functional materials at atomic scale. <i>Nano Select</i> , 2020, 1, 183-199.	1.9	12

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74	Fatigue-Free Aurivillius Phase Ferroelectric Thin Films with Ultrahigh Energy Storage Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2001536.	10.2	114
75	Toward bioimplantable and biocompatible flexible energy harvesters using piezoelectric ceramic materials. <i>MRS Communications</i> , 2020, 10, 365-378.	0.8	25
76	Enhanced energy storage properties of Sr(Sc _{0.5} Nb _{0.5})O ₃ modified (Bi _{0.47} La _{0.03} Na _{0.5}) _{0.94} Ba _{0.06} TiO ₃ lead-free ceramics. <i>Journal of Materials Science</i> , 2020, 55, 13578-13589.	1.7	26
77	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.	5.2	170
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79	Flexible Lead-Free Perovskite Oxide Multilayer Film Capacitor Based on (Na _{0.8} K _{0.2}) _{0.5} Bi _{0.5} TiO ₃ /Ba _{0.5} Sr _{0.5} (Ti _{0.5} Sn _{0.5}) _{0.5} High-Performance Dielectric Energy Storage. <i>Advanced Energy Materials</i> , 2020, 10, 1904229.	1.0	1
80	Significantly enhanced energy storage density of epitaxial Ba _{0.53} Sr _{0.47} TiO ₃ thin films by optimizing bottom electrode material. <i>Ceramics International</i> , 2020, 46, 13900-13906.	2.3	15
81	Crystallization and Dielectric Properties of MWCNT /Poly(1-Butene) Composite Films by a Solution Casting Method. <i>Materials</i> , 2020, 13, 755.	1.3	3
82	Sandwich-structured polymers with electrospun boron nitrides layers as high-temperature energy storage dielectrics. <i>Chemical Engineering Journal</i> , 2020, 389, 124443.	6.6	143
83	High energy storage efficiency and thermal stability of A-site deficient and 110° textured BaTiO ₃ BiScO ₃ thin films. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3168-3177.	1.9	13
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85	Flexible lead-free BFO-based dielectric capacitor with large energy density, superior thermal stability, and reliable bending endurance. <i>Journal of Materiomics</i> , 2020, 6, 200-208.	2.8	43
86	An Unconventional Transient Phase with Cycloidal Order of Polarization in Energy Storage Antiferroelectric PbZrO ₃ . <i>Advanced Materials</i> , 2020, 32, e1907208.	11.1	54
87	Fabrication, structural and dielectric property of lead-free perovskite silver niobate ceramics. <i>Ceramics International</i> , 2020, 46, 12269-12274.	2.3	12
88	High energy density with ultrahigh discharging efficiency obtained in ceramic-polymer nanocomposites using a non-ferroelectric polar polymer as matrix. <i>Nano Energy</i> , 2020, 70, 104551.	8.2	70
89	Energy storage performance of flexible NKBT/NKBT-ST multilayer film capacitor by interface engineering. <i>Nano Energy</i> , 2020, 74, 104862.	8.2	84
90	Increased Low-Temperature Magnetization and Spin-Reorientational Transition in the Polar Phase of (Ca, Mn)-Doped Bismuth Ferrites. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2000121.	0.7	1

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92	Flexible lead-free Na _{0.5} Bi _{0.5} TiO ₃ –EuTiO ₃ solid solution film capacitors with stable energy storage performances. <i>Scripta Materialia</i> , 2020, 184, 52-56.	2.6	30
93	Polar nano-clusters in nominally paraelectric ceramics demonstrating high microwave tunability for wireless communication. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3996-4003.	2.8	25
94	Structure, dielectric and relaxor properties of Sr _{0.7} Bi _{0.2} TiO ₃ K _{0.5} Bi _{0.5} TiO ₃ lead-free ceramics for energy storage applications. <i>Journal of Materiomics</i> , 2021, 7, 195-207.	2.8	62
95	Improved dielectric breakdown strength and energy storage properties in Er ₂ O ₃ modified Sr _{0.35} Bi _{0.35} K _{0.25} TiO ₃ . <i>Chemical Engineering Journal</i> , 2021, 403, 126290.	6.6	96
96	Enhancement of recoverable energy density and efficiency of lead-free relaxor-ferroelectric BNT-based ceramics. <i>Chemical Engineering Journal</i> , 2021, 406, 126818.	6.6	123
97	Dielectric, ferroelectric, and energy storage properties of Ba(Zn _{1/3} Nb _{2/3})O ₃ -modified BiFeO ₃ –BaTiO ₃ Pb-Free relaxor ferroelectric ceramics. <i>Ceramics International</i> , 2021, 47, 3780-3788.	2.3	40
98	Giant energy density and high efficiency achieved in silver niobate-based lead-free antiferroelectric ceramic capacitors via domain engineering. <i>Energy Storage Materials</i> , 2021, 34, 417-426.	9.5	130
99	Heterostructured materials: superior properties from hetero-zone interaction. <i>Materials Research Letters</i> , 2021, 9, 1-31.	4.1	505
100	Enhancement thermal stability of polyetherimide-based nanocomposites for applications in energy storage. <i>Composites Science and Technology</i> , 2021, 201, 108501.	3.8	58
101	Enhanced energy storage of polyvinylidene fluoride–based nanocomposites induced by high aspect ratio titania nanosheets. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50244.	1.3	8
102	High-temperature electrical energy storage performances of dipolar glass polymer nanocomposites filled with trace ultrafine nanoparticles. <i>Chemical Engineering Journal</i> , 2021, 420, 127614.	6.6	33
103	Ultra-high energy density induced by diversified enhancement effects in (Pb _{0.98} ^x La _{0.02} Cax)(Zr _{0.7} Sn _{0.3}) _{0.995} O ₃ antiferroelectric multilayer ceramic capacitors. <i>Chemical Engineering Journal</i> , 2021, 417, 128032.	6.6	34
104	Superhierarchical Inorganic/Organic Nanocomposites Exhibiting Simultaneous Ultrahigh Dielectric Energy Density and High Efficiency. <i>Advanced Functional Materials</i> , 2021, 31, 2007994.	7.8	46
105	Lead-based and lead-free ferroelectric ceramic capacitors for electrical energy storage. , 2021, , 279-356.		9
106	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.	3.8	149
107	Low-loss high entropy relaxor-like ferroelectrics with A-site disorder. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2979-2985.	2.8	35
108	Simultaneously enhanced energy storage density and efficiency in novel BiFeO ₃ -based lead-free ceramic capacitors. <i>Journal of the European Ceramic Society</i> , 2021, 41, 387-393.	2.8	60

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110	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.	5.2	27
111	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.	5.6	31
112	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.	2.8	32
113	High energy storage properties and dielectric temperature stability of (1-x)(0.8Bi _{0.5} Na _{0.5} TiO ₃ -0.2Ba _{0.3} Sr _{0.7} TiO ₃)-xNaNbO ₃ lead-free ceramics. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156821.	2.8	36
114	Bi(Mg _{0.5} Hf _{0.5})O ₃ -modified SrTiO ₃ lead-free ceramics for high-temperature energy storage capacitors. <i>Journal of Materials Research</i> , 2021, 36, 1171-1181.	1.2	11
115	Comprehensively enhanced energy-storage properties in (Pb _{1-x} ³⁺ /La _x)(Zr _{0.995} /Ti _{0.005})O ₃ antiferroelectric ceramics via composition optimization. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12399-12407.	2.2	26
116	In Situ Observation of Point-Defect-Induced Unit-Cell-Wise Energy Storage Pathway in Antiferroelectric PbZrO ₃ . <i>Advanced Functional Materials</i> , 2021, 31, 2008609.	7.8	18
117	Combined Merits of High Dielectric Breakdown Strength and Low Sintering Temperature Acquired in MgO-Based dielectric Ceramics: From Theoretical Prediction to Experimental Validation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
118	Dielectric polymers for high-temperature capacitive energy storage. <i>Chemical Society Reviews</i> , 2021, 50, 6369-6400.	18.7	262
119	Bifunctional Device with High Energy Storage Density and Ultralow Current Analog Resistive Switching. <i>Advanced Electronic Materials</i> , 2021, 7, 2000902.	2.6	11
120	PFM (piezoresponse force microscopy)-aided design for molecular ferroelectrics. <i>Chemical Society Reviews</i> , 2021, 50, 8248-8278.	18.7	63
121	Energy Storage and Electrocaloric Cooling Performance of Advanced Dielectrics. <i>Molecules</i> , 2021, 26, 481.	1.7	6
122	High-performance lead-free bulk ceramics for electrical energy storage applications: design strategies and challenges. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18026-18085.	5.2	277
123	Oxygen polyhedral dipole-dipole interaction induced domain reconstruction and relaxor behaviors in layered perovskite films for dielectric energy storage. <i>Nanoscale</i> , 2021, 13, 16226-16233.	2.8	10
124	Energy-storage performance of NaNbO ₃ based multilayered capacitors. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	28
125	Superior energy-storage performance in 0.85Bi _{0.5} /Na _{0.5} TiO ₃ -0.15NaNbO ₃ lead-free ferroelectric ceramics via composition and microstructure engineering. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10088-10094.	5.2	57
126	Ferroelectric polymers and their nanocomposites for dielectric energy storage applications. <i>APL Materials</i> , 2021, 9, .	2.2	37

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128	Enhanced energy density and electric cycling reliability via MnO ₂ modification in sodium niobate-based relaxor dielectric capacitors. Journal of Materials Research, 2021, 36, 1214-1222.	1.2	19
129	High Energy Efficiency and Thermal Stability of BaTiO ₃ BiScO ₃ Thin Films Based on Defects Engineering. ACS Applied Electronic Materials, 2021, 3, 1097-1106.	2.0	9
130	Thermally stable dielectric properties of 0.5Na _{0.5} Bi _{0.5} TiO ₃ 0.4SrTiO ₃ 0.1BiFeO ₃ ceramics at high temperature. Journal of Materials Research, 2021, 36, 1153-1160.	1.2	11
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