Xiaojie Lou

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2683727/publications.pdf

Version: 2024-02-01

179 papers	8,754 citations	36203 51 h-index	54797 84 g-index
181 all docs	181 docs citations	181 times ranked	5508 citing authors

#	Article	IF	Citations
1	Giant Piezoelectricity in Potassiumâ€“Sodium Niobate Lead-Free Ceramics. Journal of the American Chemical Society, 2014, 136, 2905-2910.	6.6	693
2	Ultrahigh Energy Storage Performance of Leadâ€Free Oxide Multilayer Film Capacitors via Interface Engineering. Advanced Materials, 2017, 29, 1604427.	11.1	247
3	Polarization fatigue in ferroelectric thin films and related materials. Journal of Applied Physics, 2009, 105, .	1.1	235
4	Oxygen-vacancy-related relaxation and scaling behaviors of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Bi</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.9</mml:m Physical Review B, 2010, 82, .	1.1	228
5	Giant strain with low hysteresis in A-site-deficient (Bi0.5Na0.5)TiO3-based lead-free piezoceramics. Acta Materialia, 2017, 128, 337-344.	3.8	222
6	Lead-free Piezoelectrics Based on Potassiumâ€“Sodium Niobate with Giant d₃₃. ACS Applied Materials & Interfaces, 2013, 5, 7718-7725.	4.0	199
7	Nanoâ€Ferroelectric for High Efficiency Overall Water Splitting under Ultrasonic Vibration. Angewandte Chemie - International Edition, 2019, 58, 15076-15081.	7.2	185
8	Single-crystal Î²-NiS nanorod arrays with a hollow-structured Ni₃S₂ framework for supercapacitor applications. Journal of Materials Chemistry A, 2016, 4, 7700-7709.	5.2	168
9	Enhanced electrocaloric effect in lead-free BaTi1âˆ’xSnxO3 ceramics near room temperature. Applied Physics Letters, 2014, 105, .	1.5	165
10	Large room-temperature electrocaloric effect in lead-free BaHf Ti O3 ceramics under low electric field. Acta Materialia, 2016, 115, 58-67.	3.8	162
11	Facile synthesis of truncated cube-like NiSe2 single crystals for high-performance asymmetric supercapacitors. Chemical Engineering Journal, 2017, 330, 1334-1341.	6.6	138
12	Local Phase Decomposition as a Cause of Polarization Fatigue in Ferroelectric Thin Films. Physical Review Letters, 2006, 97, 177601.	2.9	131
13	Large energy storage density in BiFeO3-BaTiO3-AgNbO3 lead-free relaxor ceramics. Journal of the European Ceramic Society, 2020, 40, 2929-2935.	2.8	131
14	Phase transitions and the piezoelectricity around morphotropic phase boundary in Ba(Zr0.2Ti0.8)O3-x(Ba0.7Ca0.3)TiO3 lead-free solid solution. Applied Physics Letters, 2014, 105, .	1.5	122
15	Energy storage performance of Bi0.5Na0.5TiO3-based relaxor ferroelectric ceramics with superior temperature stability under low electric fields. Chemical Engineering Journal, 2021, 410, 128376.	6.6	114
16	Giant d33 in (K,Na)(Nb,Sb)O3-(Bi,Na,K, Li)ZrO3 based lead-free piezoelectrics with high Tc. Applied Physics Letters, 2013, 103, .	1.5	109
17	Significantly enhanced energy storage density with superior thermal stability by optimizing Ba(Zr0.15Ti0.85)O3/Ba(Zr0.35Ti0.65)O3 multilayer structure. Nano Energy, 2018, 51, 539-545.	8.2	108
18	Large d33 in (K,Na)(Nb,Ta,Sb)O3-(Bi,Na,K)ZrO3 lead-free ceramics. Journal of Materials Chemistry A, 2014, 2, 4122.	5.2	103

#	Article	IF	Citations
19	High strain in (K_{0.40}Na_{0.60})(Nb_{0.955}Sb_{0.045})O₃â€“Bi_{0.50}Na<sub>0 ceramics with large piezoelectricity. Journal of Materials Chemistry C, 2014, 2, 8796-8803.	2.5	94
20	Ultrahigh energy storage density in (Bi0.5Na0.5)0.65Sr0.35TiO3-based lead-free relaxor ceramics with excellent temperature stability. Nano Energy, 2022, 98, 107276.	8.2	93
21	New Potassiumâ€“Sodium Niobate Ceramics with a Giant d₃₃. ACS Applied Materials & Interfaces, 2014, 6, 6177-6180.	4.0	90
22	Potassiumâ€“sodium niobate lead-free ceramics: modified strain as well as piezoelectricity. Journal of Materials Chemistry A, 2015, 3, 1868-1874.	5.2	87
23	Giant Roomâ€Temperature Elastocaloric Effect in Ferroelectric Ultrathin Films. Advanced Materials, 2014, 26, 6132-6137.	11.1	86
24	Fatigue as a local phase decomposition: A switching-induced charge-injection model. Physical Review B, 2007, 75, .	1.1	83
25	Domain Engineered Lead-Free Ceramics with Large Energy Storage Density and Ultra-High Efficiency under Low Electric Fields. ACS Applied Materials & Interfaces, 2021, 13, 25143-25152.	4.0	82
26	All-Inorganic Flexible Embedded Thin-Film Capacitors for Dielectric Energy Storage with High Performance. ACS Applied Materials & Interfaces, 2019, 11, 5247-5255.	4.0	81
27	Facile synthesis of three-dimensional structured carbon fiber-NiCo2O4-Ni(OH)2 high-performance electrode for pseudocapacitors. Scientific Reports, 2015, 5, 9277.	1.6	78
28	Thermal strain induced large electrocaloric effect of relaxor thin film on LaNiO3/Pt composite electrode with the coexistence of nanoscale antiferroelectric and ferroelectric phases in a broad temperature range. Nano Energy, 2018, 47, 285-293.	8.2	78
29	Role of antimony in the phase structure and electrical properties of potassiumâ€“sodium niobate lead-free ceramics. RSC Advances, 2015, 5, 14575-14583.	1.7	77
30	Composition-Driven Phase Boundary and Piezoelectricity in Potassiumâ€“Sodium Niobate-Based Ceramics. ACS Applied Materials & Interfaces, 2015, 7, 20332-20341.	4.0	76
31	Large Energy Density, Excellent Thermal Stability, and High Cycling Endurance of Lead-Free BaZr_{0.2}Ti_{0.8}O₃ Film Capacitors. ACS Applied Materials & Interfaces, 2017, 9, 17096-17101.	4.0	76
32	Defect dipole-induced poling characteristics and ferroelectricity of quenched bismuth ferrite-based ceramics. Journal of Materials Chemistry C, 2016, 4, 6140-6151.	2.7	75
33	Large energy storage properties of lead-free (1-x)(0.72Bi0.5Na0.5TiO3-0.28SrTiO3)-xBiAlO3 ceramics at broad temperature range. Journal of Alloys and Compounds, 2019, 784, 788-793.	2.8	75
34	Flexible lead-free oxide film capacitors with ultrahigh energy storage performances in extremely wide operating temperature. Nano Energy, 2019, 57, 519-527.	8.2	75
35	Ultrahigh energy storage in lead-free BiFeO3/Bi3.25La0.75Ti3O12 thin film capacitors by solution processing. Applied Physics Letters, 2018, 112, .	1.5	74
36	Achieving Both Giant d₃₃ and High T_C in Patassium-Sodium Niobate Ternary System. ACS Applied Materials & Interfaces, 2014, 6, 750-756.	4.0	73

#	Article	IF	Citations
37	Recent Materials Characterizations of [2D] and [3D] Thin Film Ferroelectric Structures. Journal of the American Ceramic Society, 2005, 88, 1691-1701.	1.9	71
38	Tunable electrocaloric and energy storage behavior in the Ce, Mn hybrid doped BaTiO3 ceramics. Journal of the European Ceramic Society, 2018, 38, 4664-4669.	2.8	69
39	Strong Piezoelectricity in (1 â€“ x)(K0.4Na0.6)(Nb0.96Sb0.04)O3-xBi0.5K0.5Zr1â€“ySnyO3 Lead-Free Binary System: Identification and Role of Multiphase Coexistence. ACS Applied Materials & Interfaces, 2015, 7, 5927-5937.	4.0	63
40	Insights into the tribo-/pyro-catalysis using Sr-doped BaTiO3 ferroelectric nanocrystals for efficient water remediation. Chemical Engineering Journal, 2021, 416, 128986.	6.6	63
41	Giant electrocaloric effect in lead-free Ba0.94Ca0.06Ti1â^'xSnxO3 ceramics with tunable Curie temperature. Applied Physics Letters, 2015, 107, .	1.5	60
42	Enhanced energy storage density of Sr0.7BixTiO3 lead-free relaxor ceramics via A-site defect and grain size tuning. Chemical Engineering Journal, 2021, 420, 129808.	6.6	60
43	New potassium-sodium niobate lead-free piezoceramic: Giant-d33 vs. sintering temperature. Journal of Applied Physics, 2014, 115, .	1.1	59
44	Bi0.5Na0.5TiO3-based lead-free ceramics with superior energy storage properties at high temperatures. Composites Part B: Engineering, 2021, 215, 108815.	5.9	59
45	Dehydroxylation, proton migration, and structural changes in heated talc: An infrared spectroscopic study. American Mineralogist, 2006, 91, 816-825.	0.9	57
46	Bi3.25La0.75Ti3O12 thin film capacitors for energy storage applications. Applied Physics Letters, 2017, 111, .	1.5	57
47	High electrostrictive strain in lead-free relaxors near the morphotropic phase boundary. Acta Materialia, 2020, 182, 39-46.	3.8	57
48	Synergistically optimizing electrocaloric effects and temperature span in KNN-based ceramics utilizing a relaxor multiphase boundary. Journal of Materials Chemistry C, 2020, 8, 4030-4039.	2.7	57
49	New (1â€‰â€'â€‰x)K0.45Na0.55Nb0.96Sb0.04O3-xBi0.5Na0.5HfO3 lead-free ceramics: Phase boundary and their electrical properties. Journal of Applied Physics, 2015, 118, .	1.1	55
50	Dielectric, ferroelectric, and piezoelectric properties in potassium sodium niobate ceramics with rhombohedralâ€“orthorhombic and orthorhombicâ€“tetragonal phase boundaries. Ceramics International, 2014, 40, 5771-5779.	2.3	54
51	Lead-free A₂Bi₄Ti₅O₁₈ thin film capacitors (A = Ba and) Tj ETQq1 1 0.784314 rgBT Materials Chemistry C, 2019, 7, 1888-1895.	2.7	54
52	Enhanced electrocaloric effect near polymorphic phase boundary in lead-free potassium sodium niobate ceramics. Applied Physics Letters, 2017, 110, .	1.5	53
53	Interface thickness optimization of lead-free oxide multilayer capacitors for high-performance energy storage. Journal of Materials Chemistry A, 2018, 6, 1858-1864.	5.2	52
54	Mediating the Contradiction of d₃₃ and T_C in Potassiumâ€“Sodium Niobate Lead-Free Piezoceramics. ACS Applied Materials & Interfaces, 2013, 5, 10409-10417.	4.0	50

#	Article	IF	Citations
55	Tailoring ferroelectric polarization and relaxation of BNT-based lead-free relaxors for superior energy storage properties. Chemical Engineering Journal, 2022, 428, 132612.	6.6	50
56	Prediction of giant elastocaloric strength and stress-mediated electrocaloric effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>single crystals. Physical Review B, 2014, 90, .	1.1	47
57	Why do antiferroelectrics show higher fatigue resistance than ferroelectrics under bipolar electrical cycling?. Applied Physics Letters, 2009, 94, .	1.5	46
58	Large electrocaloric strength and broad electrocaloric temperature span in lead-free Ba_{0.85}Ca_{0.15}Ti_{1â^'x}Hf_xO₃ceramics. RSC Advances, 2017, 7, 5813-5820.	1.7	46
59	Effect of a built-in electric field in asymmetric ferroelectric tunnel junctions. Physical Review B, 2013, 88, .	1.1	45
60	(1 â^') Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 552 Td (x)(K_{0.48}Na_{0.52})(Nb_{0.95â^'yâ^'z}Ta_z lead-free ceramics: composition dependence of the phase boundaries and electrical properties. Dalton Transactions, 2015, 44, 4440-4448.	1.6	44
61	Giant negative electrocaloric effect in antiferroelectric PbZrO₃ thin films in an ultra-low temperature range. Journal of Materials Chemistry C, 2019, 7, 617-621.	2.7	44
62	Giant room-temperature barocaloric effect and pressure-mediated electrocaloric effect in BaTiO3 single crystal. Applied Physics Letters, 2014, 104, .	1.5	43
63	New potassiumâ€“sodium niobate material system: a giant-d₃₃and high-T_Clead-free piezoelectric. Dalton Transactions, 2014, 43, 11759.	1.6	43
64	The dielectric, strain and energy storage density of BNT-BKHxT1â^'x piezoelectric ceramics. Ceramics International, 2017, 43, 9253-9258.	2.3	43
65	Realization of high energy density in an ultra-wide temperature range through engineering of ferroelectric sandwich structures. Nano Energy, 2019, 62, 725-733.	8.2	42
66	Statistical switching kinetics of ferroelectrics. Journal of Physics Condensed Matter, 2009, 21, 012207.	0.7	41
67	Large electricâ€fieldâ€induced strain and enhanced piezoelectric constant in CuOâ€modified BiFeO₃â€BaTiO₃ ceramics. Journal of the American Ceramic Society, 2018, 101, 3383-3392.	1.9	41
68	Enhanced energy storage performance of 0.88(0.65Bi0.5Na0.5TiO3-0.35SrTiO3)-0.12Bi(Mg0.5Hf0.5)O3 lead-free relaxor ceramic by composition design strategy. Chemical Engineering Journal, 2022, 437, 135462.	6.6	41
69	Characteristics of giant piezoelectricity around the rhombohedral-tetragonal phase boundary in (K,Na)NbO₃-based ceramics with different additives. Journal of Materials Chemistry A, 2015, 3, 15951-15961.	5.2	40
70	Pollen-inspired synthesis of porous and hollow NiO elliptical microstructures assembled from nanosheets for high-performance electrochemical energy storage. Chemical Engineering Journal, 2017, 321, 546-553.	6.6	40
71	A New Ba_{0.6}Sr_{0.4}TiO₃â€“Silicon Hybrid Metamaterial Device in Terahertz Regime. Small, 2016, 12, 2610-2615.	5.2	38
72	Direct aqueous solution synthesis of an ultra-fine amorphous nickelâ€“boron alloy with superior pseudocapacitive performance for advanced asymmetric supercapacitors. New Journal of Chemistry, 2017, 41, 7302-7311.	1.4	38

#	Article	IF	Citations
73	Energy storage properties in BaTiO3-Bi3.25La0.75Ti3O12 thin films. Applied Physics Letters, 2018, 113, .	1.5	38
74	Defect-controlled electrocaloric effect in PbZrO₃thin films. Journal of Materials Chemistry C, 2018, 6, 10332-10340.	2.7	38
75	Enhanced piezoelectric, electrocaloric and energy storage properties at high temperature in lead-free Bi0.5(Na1-xKx)0.5TiO3 ceramics. Ceramics International, 2019, 45, 4274-4282.	2.3	38
76	A New Strategy for Large Dynamic Piezoelectric Responses in Leadâ€Free Ferroelectrics: The Relaxor/Morphotropic Phase Boundary Crossover. Advanced Functional Materials, 2020, 30, 2004641.	7.8	38
77	Large enhancement of energy storage density in (Pb0.92La0.08)(Zr0.65Ti0.35)O3/PbZrO3 multilayer thin film. Ceramics International, 2019, 45, 20046-20050.	2.3	37
78	Giant Electrocaloric Effect and Ultrahigh Refrigeration Efficiency in Antiferroelectric Ceramics by Morphotropic Phase Boundary Design. ACS Applied Materials & Interfaces, 2020, 12, 45005-45014.	4.0	37
79	Significantly enhanced energy storage properties of Nd3+ doped AgNbO3 lead-free antiferroelectric ceramics. Journal of Alloys and Compounds, 2021, 877, 160162.	2.8	37
80	Sizable electrocaloric effect in a wide temperature range tuned by tensile misfit strain in BaTiO3 thin films. Journal of Applied Physics, 2011, 109, 126102.	1.1	36
81	Giant mechanically-mediated electrocaloric effect in ultrathin ferroelectric capacitors at room temperature. Applied Physics Letters, 2014, 104, .	1.5	36
82	Wide phase boundary zone, piezoelectric properties, and stability in 0.97(K0.4Na0.6)(Nb1â^'xSbx)O3â€“0.03Bi0.5Li0.5ZrO3 lead-free ceramics. Dalton Transactions, 2014, 43, 9419.	1.6	36
83	Polarization retention on short, intermediate, and long time scales in ferroelectric thin films. Journal of Applied Physics, 2009, 105, .	1.1	34
84	Origin of the enhanced polarization in La and Mg co-substituted BiFeO3 thin film during the fatigue process. Applied Physics Letters, 2012, 100, .	1.5	34
85	Grain size modulated (Na0.5Bi0.5)0.65Sr0.35TiO3-based ceramics with enhanced energy storage properties. Chemical Engineering Journal, 2022, 433, 133584.	6.6	34
86	Formation of magnetite in bismuth ferrrite under voltage stressing. Applied Physics Letters, 2007, 90, 262908.	1.5	33
87	Rhombohedralâ€“tetragonal phase boundary and electrical properties of new K_{0.48}Na_{0.52}Nb_{0.98}Sb_{0.02}O₃-Bi_{0.5}Na_{0.5} piezoceramics. Journal Physics D: Applied Physics, 2013, 46, 495305.	1.5	33
88	Large strain and strain memory effect in bismuth ferrite lead-free ceramics. Journal of Materials Chemistry C, 2017, 5, 9528-9533.	2.7	32
89	High Strain in (K,Na)NbO₃ -Based Lead-Free Piezoceramics. ACS Applied Materials & Interfaces, 2014, 6, 20358-20364.	4.0	31
90	Growth of centimeter-sized [(CH₃)₂NH₂][Mn(HCOO)₃] hybrid formate perovskite single crystals and Raman evidence of pressure-induced phase transitions. New Journal of Chemistry, 2017, 41, 151-159.	1.4	31

#	Article	IF	Citations
91	Tuning the microstructure of BaTiO3@SiO2 core-shell nanoparticles for high energy storage composite ceramics. Journal of Alloys and Compounds, 2019, 784, 173-181.	2.8	31
92	Extraordinary energy storage performance and thermal stability in sodium niobate-based ceramics modified by the ion disorder and stabilized antiferroelectric orthorhombic R phase. Journal of Materials Chemistry A, 2021, 9, 24387-24396.	5.2	31
93	Submicron three-dimensional trenched electrodes and capacitors for DRAMs and FRAMs: Fabrication and electrical testing. Journal of Applied Physics, 2008, 104, 064112.	1.1	30
94	Bipolar and unipolar electrical fatigue in ferroelectric lead zirconate titanate thin films: An experimental comparison study. Journal of Applied Physics, 2010, 108, .	1.1	30
95	Dead layer effect and its elimination in ferroelectric thin film with oxide electrodes. Acta Materialia, 2016, 112, 216-223.	3.8	30
96	Large electric-field-induced strain and energy storage properties in Bi0.5Na0.5TiO3-(0.5Ba0.7Ca0.3TiO3-0.5BaTi0.8Zr0.2O3) lead-free relaxor ferroelectric ceramics. Journal of Alloys and Compounds, 2021, 860, 158369.	2.8	30
97	High-performance nickel cobalt sulfide materials via low-cost preparation for advanced asymmetric supercapacitors. RSC Advances, 2016, 6, 42633-42642.	1.7	29
98	Developing a ferroelectric nanohybrid for enhanced photocatalysis. Chemical Communications, 2017, 53, 7596-7599.	2.2	29
99	Four switching categories of ferroelectrics. Journal of Applied Physics, 2009, 105, .	1.1	28
100	Intrinsic electrocaloric effect in ultrathin ferroelectric capacitors. Applied Physics Letters, 2012, 100, 192902.	1.5	28
101	Rhombohedralâ€“tetragonal phase coexistence and piezoelectric properties based on potassiumâ€“sodium niobate ternary system. Journal of Alloys and Compounds, 2014, 610, 86-91.	2.8	28
102	Strain Coupling and Dynamic Relaxation in a Molecular Perovskiteâ€Like Multiferroic Metalâ€“Organic Framework. Advanced Functional Materials, 2018, 28, 1806013.	7.8	28
103	Remarkably Enhanced Negative Electrocaloric Effect in PbZrO₃ Thin Film by Interface Engineering. ACS Applied Materials & Interfaces, 2019, 11, 36863-36870.	4.0	28
104	Enhanced energy storage performance in Sr0.7La0.2Zr0.15Ti0.85O3-modified Bi0.5Na0.5TiO3 ceramics via constructing local phase coexistence. Chemical Engineering Journal, 2022, 446, 137105.	6.6	28
105	Large electrocaloric efficiency over a broad temperature span in lead-free BaTiO3-based ceramics near room temperature. Applied Physics Letters, 2017, 111, .	1.5	27
106	Phase separation in lead zirconate titanate and bismuth titanate during electrical shorting and fatigue. Journal of Applied Physics, 2006, 99, 044101.	1.1	26
107	Unipolar and bipolar fatigue in antiferroelectric lead zirconate thin films and evidences for switching-induced charge injection inducing fatigue. Applied Physics Letters, 2010, 96, .	1.5	26
108	New lead-free piezoelectric ceramics based on (K0.48Na0.52)(Nb0.95Ta0.05)O3â€“Bi0.5(Na0.7K0.2Li0.1)0.5ZrO3. Dalton Transactions, 2014, 43, 3434.	1.6	26

#	Article	IF	Citations
109	Composition design and electrical properties in (1-y)(K0.40Na0.60)0.985Li0.015(Nb1â^'xSbx)O3-yBi0.5Na0.5ZrO3 lead-free ceramics. Journal of Applied Physics, 2015, 117, .	1.1	25
110	Ni-doped SrBi2Nb2O9 â€“ Perovskite oxides with reduced band gap and stable ferroelectricity for photovoltaic applications. Journal of Alloys and Compounds, 2017, 724, 1093-1100.	2.8	25
111	Atomic-scale fatigue mechanism of ferroelectric tunnel junctions. Science Advances, 2021, 7, eabh2716.	4.7	25
112	Lead-free piezoelectric ceramics based on (0.97â€‰â^'â€‰x)K0.48Na0.52NbO3-0.03Bi0.5(Na0.7K0.2Li0.1)0.5ZrO3-xB0.5Na0.5TiO3 ternary system. Journal of Applied Physics, 2013, 114, 124107.	2.2	24
113	Enhanced electrocaloric effect in the Sm and Hf co-doped BaTiO3 ceramics. Ceramics International, 2021, 47, 1101-1108.	2.3	24
114	Effect of manganese doping on the size effect of lead zirconate titanate thin films and the extrinsic nature of â€˜dead layersâ€™. Journal of Physics Condensed Matter, 2010, 22, 055901.	0.7	23
115	Tunable oxygen vacancy configuration by strain engineering in perovskite ferroelectrics from first-principles study. Applied Physics Letters, 2013, 103, 142911.	1.5	23
116	Rayleigh-like nonlinear dielectric response and its evolution during electrical fatigue in antiferroelectric (Pb,La)(Zr,Ti)O₃ thin film. Applied Physics Letters, 2014, 104, 142904.	1.5	23
117	Direct and indirect measurement of electrocaloric effect in lead-free (100-x)Ba(Hf0.2Ti0.8)O3-x(Ba0.7Ca0.3)TiO3 ceramics near multi-phase boundary. Journal of Alloys and Compounds, 2017, 725, 275-282.	2.8	23
118	Enhanced energy storage properties in lead-free NaNbO3â€“Sr0.7Bi0.2TiO3â€“BaSnO3 ternary ceramic. Journal of Materials Science, 2021, 56, 11922-11931.	1.7	22
119	Flexible ultrahigh energy storage density in lead-free heterostructure thin-film capacitors. Applied Physics Letters, 2019, 115, .	1.5	21
120	Resistive Hysteresis and Diodelike Behavior of BiFeO[sub 3]/ZnO Heterostructure. Electrochemical and Solid-State Letters, 2010, 13, G9.	2.2	19
121	High unipolar strain in samarium-doped potassiumâ€“sodium niobate lead-free ceramics. RSC Advances, 2015, 5, 39295-39302.	1.7	19
122	Superior energy storage properties in (1â^'x)(0.65Bi0.5Na0.5TiO3-0.35Bi0.2Sr0.7TiO3)-xCaZrO3 ceramics with excellent temperature stability. Journal of Alloys and Compounds, 2021, 876, 160101.	2.8	19
123	Microstructural evolution of charged defects in the fatigue process of polycrystalline BiFeO3 thin films. Acta Materialia, 2015, 82, 190-197.	3.8	18
124	Novel lead-free ferroelectric film by ultra-small Ba_{0.8}Sr_{0.2}TiO₃nanocubes assembled for a large electrocaloric effect. Physical Chemistry Chemical Physics, 2016, 18, 29033-29040.	1.3	18
125	Composition-driven inverse-to-conventional transformation of electrocaloric effect and large energy storage density in strontium modified Ba(Zr_{0.1}Ti_{0.9})O₃ thin films. Journal of Materials Chemistry C, 2020, 8, 1366-1373.	2.7	18
126	Giant electrocaloric effect in asymmetric ferroelectric tunnel junctions at room temperature. Applied Physics Letters, 2014, 104, .	1.5	17

#	Article	IF	Citations
127	Influence of epitaxial strain on elastocaloric effect in ferroelectric thin films. Applied Physics Letters, 2015, 106, .	1.5	17
128	Fatigue mechanism verified using photovoltaic properties of Pb(Zr0.52Ti0.48)O3 thin films. Applied Physics Letters, 2017, 110, .	1.5	17
129	Modulating the electric and magnetic properties of BiFeO3 ceramics. Materials and Design, 2017, 125, 213-221.	3.3	17
130	Glassy Spin Dynamics in Geometrically Frustrated Buckled Colloidal Crystals. Physical Review X, 2017, 7, .	2.8	17
131	Glass-Glass Transitions by Means of an Acceptor-Donor Percolating Electric-Dipole Network. Physical Review Applied, 2017, 8, .	1.5	17
132	Enhanced energy storage performance of advanced hybrid supercapacitors derived from ultrafine Niâ€“P@Ni nanotubes with novel three-dimensional porous network synthesized via reaction temperatures regulation. Electrochimica Acta, 2020, 331, 135440.	2.6	17
133	Enhanced electric-field-induced strain in 0.7Bi(1â^'x)SmxFeO3â€“0.3BaTiO3 lead-free ceramics. Journal of Materials Science, 2020, 55, 8134-8144.	1.7	16
134	Enhanced charge separation in La₂NiO₄ nanoplates by coupled piezocatalysis and photocatalysis for efficient H₂ evolution. Nanoscale, 2022, 14, 7083-7095.	2.8	16
135	Highâ€Performance Strain of Leadâ€Free Relaxorâ€Ferroelectric Piezoceramics by the Morphotropic Phase Boundary Modification. Advanced Functional Materials, 2022, 32, .	7.8	16
136	Nanoâ€Ferroelectric for High Efficiency Overall Water Splitting under Ultrasonic Vibration. Angewandte Chemie, 2019, 131, 15220-15225.	1.6	15
137	Significantly enhanced energy storage density of epitaxial Ba0.53Sr0.47TiO3 thin films by optimizing bottom electrode material. Ceramics International, 2020, 46, 13900-13906.	2.3	15
138	Remarkably enhanced energy storage properties of lead-free Ba0.53Sr0.47TiO3 thin films capacitors by optimizing bottom electrode thickness. Journal of the European Ceramic Society, 2020, 40, 5475-5482.	2.8	14
139	Oxygen-vacancy-mediated negative differential resistance in La and Mg co-substituted BiFeO3 thin film. Journal of Applied Physics, 2011, 110, 124102.	1.1	13
140	Effect of polarization fatigue on the Rayleigh coefficients of ferroelectric lead zirconate titanate thin films: Experimental evidence and implications. Applied Physics Letters, 2014, 105, .	1.5	13
141	Large strain response in Li/Nb co-doped Bi0.5(Na0.8K0.2)0.5TiO3 lead-free piezoceramics. Ceramics International, 2018, 44, 7378-7383.	2.3	13
142	Internal Electric Field and Polarization Backswitching Induced by Nb Doping in BiFeO₃ Thin Films. ACS Applied Electronic Materials, 2019, 1, 2701-2707.	2.0	12
143	Enhancing the electrocaloric effect of PbZr _{0.4} Ti _{0.6} O ₃ /PbTiO ₃ superlattices via composition tuning. Europhysics Letters, 2011, 95, 67004.	0.7	11
144	Negative capacitance induced by redistribution of oxygen vacancies in the fatigued BiFeO3-based thin film. Applied Physics Letters, 2012, 101, 022904.	1.5	11

#	Article	IF	Citations
145	Strong electron emission from antiferroelectric PLZT(2/95/5) films. Applied Physics Letters, 2014, 104, .	1.5	11
146	Structural, electronic and magnetic properties of metalâ€“organic-framework perovskites [AmH][Mn(HCOO)3]: a first-principles study. RSC Advances, 2016, 6, 48779-48787.	1.7	11
147	Electrocaloric effect in ferroelectric ceramics with point defects. Applied Physics Letters, 2019, 114, .	1.5	11
148	Electroresistance of Pt/BaTiO₃/LaNiO₃ ferroelectric tunnel junctions and its dependence on BaTiO₃ thickness. Materials Research Express, 2019, 6, 046307.	0.8	10
149	Effective driving voltage on polarization fatigue in (Pb,La)(Zr,Ti)O3 antiferroelectric thin films. Ceramics International, 2015, 41, 109-114.	2.3	9
150	Plasmonic-enhanced ferroelectric photovoltaic effect in 0â€“3 type BaTiO3-Au ceramics. Journal of Alloys and Compounds, 2019, 785, 584-589.	2.8	9
151	The primary and secondary electrocaloric effect at ferroelectric-ferroelectric transitions in lead-free ceramics. Scripta Materialia, 2020, 178, 150-154.	2.6	9
152	Effect of polarization fatigue on the electrocaloric effect of relaxor Pb0.92La0.08Zr0.65Ti0.35O3 thin film. Applied Physics Letters, 2020, 117, .	1.5	9
153	Optical phonons, OH vibrations, and structural modifications of phlogopite at high temperatures: An in-situ infrared spectroscopic study. American Mineralogist, 2016, 101, 1873-1883.	0.9	8
154	Effects of Fe2O3 doping on the electrical properties of Na0.47Bi0.47Ba0.06TiO3 lead-free ceramics. Ceramics International, 2018, 44, 22053-22058.	2.3	8
155	Excellent thermal stability of large polarization in (Bi0.5Na0.5)TiO3-BaTiO3 thin films induced by defect dipole. Applied Surface Science, 2020, 504, 144391.	3.1	8
156	Enhanced electrocaloric effect in BaSn/TiO3 ceramics by addition of CuO. Journal of Alloys and Compounds, 2021, 851, 156772.	2.8	8
157	High energy density hybrid supercapacitors derived from novel Ni₃Se₂ nanowires in situ constructed on porous nickel foam. Inorganic Chemistry Frontiers, 2021, 8, 1093-1101.	3.0	8
158	Temperature Stability of Dielectric Constant and Energy Storage Properties of (Pb_{1-x},La_x)(Zr_{0.65},Ti_{0.35})O₃ Relaxor Ferroelectric Thin Films. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 2052-2057.	1.8	8
159	Interface effect on the magnitude and stability of ferroelectric polarization in ultrathin PbTiO3 films from first-principles study. Journal of Applied Physics, 2013, 114, .	1.1	7
160	Effects of Epitaxial Strain on Antiferrodistortion of AgNbO₃ from Firstâ€Principle Calculations. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800007.	1.2	7
161	Doping-induced Polar Defects Improve the Electrocaloric Performance of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Ba</mml:mi><mml:mrow><mml:mn>0.9</mml:mn></mml:mrow></mml:msub><mml:msub> Physical Review Applied, 2021, 16, .	1.5	7
162	Sulfate assisted synthesis of Î±-type nickel hydroxide nanowires with 3D reticulation for energy storage in hybrid supercapacitors. Materials Chemistry Frontiers, 2021, 6, 94-102.	3.2	7

#	Article	IF	Citations
163	Polarization fatigue in antiferroelectric (Pb,La)(Zr,Ti)O3 thin films: The role of the effective strength of driving waveform. Ceramics International, 2015, 41, S289-S295.	2.3	6
164	(Bi0.5Na0.5)TiO3-based relaxor ferroelectrics with enhanced energy-storage density and efficiency under low/moderate - fields via average ionic polarizability design. Chemical Engineering Journal, 2022, 431, 133716.	6.6	6
165	New Degree of Freedom in Determining Superior Piezoelectricity at the Lead-Free Morphotropic Phase Boundary: The Invisible Ferroelectric Crossover. ACS Applied Materials & Interfaces, 2022, 14, 1434-1442.	4.0	6
166	High strain in Bi0.5Na0.5TiO3-based relaxors by adding two modifiers featuring with morphotropic phase boundary. Scripta Materialia, 2022, 218, 114674.	2.6	6
167	HIGH-TEMPERATURE AMORPHOUS HAFNIA (HfO2) FOR MICROELECTRONICS. Integrated Ferroelectrics, 2005, 74, 165-172.	0.3	5
168	Coupling between phase transitions and glassy magnetic behaviour in Heusler alloy Ni₅₀Mn₃₄In₈Ga₈. Journal of Physics Condensed Matter, 2020, 32, 325402.	0.7	5
169	Enhancement of energy storage properties of Bi0.5Na0.5TiO3-based relaxor ferroelectric under moderate electric field. Applied Physics Letters, 2022, 120, .	1.5	5
170	Effect of high-field relative permittivity on the electron emission field of PNZST cathode induced by nanosecond pulsed electric field. Ceramics International, 2014, 40, 11057-11062.	2.3	4
171	Insight into Metalized Interfaces in Nano Devices by Surface Analytical Techniques. ACS Applied Materials & Interfaces, 2015, 7, 27351-27356.	4.0	4
172	Metamaterials: A New Ba0.6Sr0.4TiO3-Silicon Hybrid Metamaterial Device in Terahertz Regime (Small) Tj ETQq0 0 0 rgBT /Overlock 10 T	5.2	4
173	MECHANISMS OF NANO-SHORTS IN THE ELECTRICAL BREAKDOWN OF FERROELECTRIC THIN FILMS. Integrated Ferroelectrics, 2005, 73, 93-98.	0.3	3
174	Antiferroelectric-ferroelectric phase transition and negative electrocaloric effect in alkaline-earth element doped PbZrO3 thin films. Journal of Alloys and Compounds, 2022, 899, 163165.	2.8	3
175	Multifunctionality in (K,Na)NbO3-based ceramic near polymorphic phase boundary. Journal of Applied Physics, 2021, 130, 064102.	1.1	2
176	Remarkably enhanced recoverable energy density in lead-free relaxor Ba0.94Ca0.06Ti1â^'xSnxO3 ceramics by the synergistic effect of nano-domains and refined grains. Journal of Alloys and Compounds, 2022, 897, 163212.	2.8	1
177	Misted Deposition of [3D] Trenches for Drams and Frams III. PZT Thin Films and PZT Nanotubes. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	0
178	Publisherâ€™s Note: Glass-Glass Transitions by Means of an Acceptor-Donor Percolating Electric-Dipole Network [Phys. Rev. Applied 8 , 054018 (2017)]. Physical Review Applied, 2018, 9, .	1.5	0
179	The impact of surface plasma on the total emission charge fromÂPZST cathode induced by nanosecond electric pulse. Pramana - Journal of Physics, 2019, 92, 1.	0.9	0