

Fangping Zhuo

List of Publications by Year in descending order

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43
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1,570
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331670

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Polymer/Ceramic-based Dielectric Composites for Energy Storage and Conversion. <i>Energy and Environmental Materials</i> , 2022, 5, 486-514.	12.8	66
2	High-temperature plastic deformation of $\langle 110 \rangle$ -oriented BaTiO ₃ single crystals. <i>Journal of Materials Research</i> , 2022, 37, 737-746.	2.6	6
3	Temperature-induced changes of the electrical and mechanical properties of aerosol-deposited BaTiO ₃ thick films for energy storage applications. <i>Journal of the American Ceramic Society</i> , 2022, 105, 4108-4121.	3.8	15
4	Achieving high energy storage performance of Pb(Lu _{1/2} Nb _{1/2})O ₃ antiferroelectric ceramics via equivalent A-site engineering. <i>Journal of the European Ceramic Society</i> , 2022, 42, 5606-5614.	5.7	3
5	Perspective on antiferroelectrics for energy storage and conversion applications. <i>Chinese Chemical Letters</i> , 2021, 32, 2097-2107.	9.0	24
6	Pulse discharge characterization of perovskite dielectric ceramics. <i>Journal of Materials Science</i> , 2021, 56, 9894-9902.	3.7	6
7	Realizing room temperature double hysteresis loops in antiferroelectric NaNbO ₃ based ceramics. <i>Ceramics International</i> , 2021, 47, 21303-21309.	4.8	12
8	Control of polarization in bulk ferroelectrics by mechanical dislocation imprint. <i>Science</i> , 2021, 372, 961-964.	12.6	84
9	Mixed Triboelectric and Flexoelectric Charge Transfer at the Nanoscale. <i>Advanced Science</i> , 2021, 8, e2101793.	11.2	18
10	Decreasing polar-structure size: Achieving superior energy storage properties and temperature stability in Na _{0.5} Bi _{0.5} TiO ₃ -based ceramics for low electric field and high-temperature applications. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5890-5899.	5.7	41
11	Enhanced Energy Storage Density of Lead Lutetium Niobate Crystals by Electric Field-Induced Secondary Phase Transition via Na/La Codoping. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28239-28245.	8.0	8
12	Multi-step domain switching and polarization fatigue in [110]-oriented 0.67Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.33PbTiO ₃ single crystals. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2345-2356.	5.7	4
13	Tunable pyroelectricity, depolarization temperature and energy harvesting density in Pb(Lu _{0.5} Nb _{0.5})O ₃ -xPbTiO ₃ ceramics. <i>Acta Materialia</i> , 2020, 186, 523-532.	7.9	14
14	Observation of a stable fractionalized polar skyrmionlike texture with giant piezoelectric response enhancement. <i>Physical Review B</i> , 2020, 102, .	3.2	11
15	Reversible and High-Temperature-Stabilized Strain in (Pb,Lu)(Zr,Sn,Ti)O ₃ Antiferroelectric Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32135-32143.	8.0	20
16	Phase structure and quasi-single-domain mechanism in Pb(Mg _{1/3} Nb _{2/3})O ₃ -xPbTiO ₃ single crystals near morphotropic phase boundary. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	4
17	Realizing high low-electric-field energy storage performance in AgNbO ₃ ceramics by introducing relaxor behaviour. <i>Journal of Materiomics</i> , 2019, 5, 597-605.	5.7	80
18	Ultrahigh energy-storage density in A/B-site co-doped AgNbO ₃ lead-free antiferroelectric ceramics: insight into the origin of antiferroelectricity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26293-26301.	10.3	136

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19	Lead titanate-induced abnormal ferroelectric/antiferroelectric phase transitions in Pb(Lu _{0.5} Nb _{0.5})O ₃ solid solutions. <i>Materials and Design</i> , 2019, 183, 108168.	7.0	4
20	Giant shape memory and domain memory effects in antiferroelectric single crystals. <i>Materials Horizons</i> , 2019, 6, 1699-1706.	12.2	27
21	Aliovalent A-site engineered AgNbO ₃ lead-free antiferroelectric ceramics toward superior energy storage density. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14118-14128.	10.3	242
22	High energy storage density and ultrafast discharge in lead lutetium niobate based ceramics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8414-8422.	10.3	51
23	Domain switching and polarization fatigue in rhombohedral PIN _{1-x} PMN _x PT and Mn-doped PIN _{1-x} PMN _x PT single crystals. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6668-6679.	3.8	18
24	Phase coexistence and broad depolarization response in (Pb,La)(Zr,Sn,Ti)O ₃ single crystals. <i>Ceramics International</i> , 2019, 45, 10394-10399.	4.8	6
25	Design for high energy storage density and temperature-insensitive lead-free antiferroelectric ceramics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4999-5008.	5.5	160
26	Large field-induced strain, giant strain memory effect, and high thermal stability energy storage in (Pb,La)(Zr,Sn,Ti)O ₃ antiferroelectric single crystal. <i>Acta Materialia</i> , 2018, 148, 28-37.	7.9	52
27	Anisotropic field induced phase transitions and negative electrocaloric effect in rhombohedral Mn doped Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals. <i>Ceramics International</i> , 2018, 44, 9045-9052.	4.8	8
28	Anisotropic domain switching in Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.30PbTiO ₃ single crystals with rhombohedral structure. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3054-3064.	3.8	14
29	Field-induced phase transitions and enhanced double negative electrocaloric effects in (Pb,La)(Zr,Sn,Ti)O ₃ antiferroelectric single crystal. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	45
30	Giant Negative Electrocaloric Effect in (Pb,La)(Zr,Sn,Ti)O ₃ Antiferroelectrics Near Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11747-11755.	8.0	75
31	Field induced O-MC phase transition and domain structure evolution in Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.34PbTiO ₃ single crystals under radial poling. <i>Journal of Alloys and Compounds</i> , 2018, 762, 222-230.	5.5	5
32	Modulation of electrocaloric effect and nanodomain structure in Mn-doped Pb(In _{0.5} Nb _{0.5})O ₃ -PbTiO ₃ ceramics. <i>Ceramics International</i> , 2018, 44, 20417-20426.	4.8	11
33	Anisotropic temperature-electric field phase diagrams and domain structure evolution in rhombohedral Mn-doped PIN _{1-x} PMN _x PT single crystals. <i>CrystEngComm</i> , 2018, 20, 5169-5179.	2.6	6
34	Field induced phase transitions and energy harvesting performance of (Pb,La)(Zr,Sn,Ti)O ₃ single crystal. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	26
35	Phase transformations, anisotropic pyroelectric energy harvesting and electrocaloric properties of (Pb,La)(Zr,Sn,Ti)O ₃ single crystals. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13534-13546.	2.8	37
36	Temperature induced phase transformations and negative electrocaloric effect in (Pb,La)(Zr,Sn,Ti)O ₃ antiferroelectric single crystal. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	27

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37	Electric Field-Induced Phase Transition Behaviors, Thermal Depolarization, and Enhanced Pyroelectric Properties of $(\text{Pb}_{0.97}\text{La}_{0.02})(\text{Zr}_x\text{Sn}_{0.89}\text{Ti}_{0.11})\text{O}_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2047-2054.	3.8	18
38	Coexistence of multiple positive and negative electrocaloric responses in $(\text{Pb}, \text{La})(\text{Zr}, \text{Sn}, \text{Ti})\text{O}_3$ single crystal. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	48
39	Structural phase transition, depolarization and enhanced pyroelectric properties of $(\text{Pb}_{1-x}\text{La}_x)(\text{Zr}_{0.66}\text{Sn}_{0.23}\text{Ti}_{0.11})\text{O}_3$ solid solution. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7110-7118.	3.3	34
40	Phase transition and domain configuration of poled rhombohedral $\text{Pb}(\text{Zr}_{0.5}\text{Sn}_{0.5})\text{O}_3$ single crystals. <i>CrystEngComm</i> , 2016, 18, 5519-5527.	2.6	10
41	Electric field induced phase transition and domain structure evolution in $(\text{Pb}, \text{La})(\text{Zr}, \text{Sn}, \text{Ti})\text{O}_3$ single crystal. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	28
42	Effect of A-site La^{3+} modified on dielectric and energy storage properties in lead zirconate stannate titanate ceramics. <i>Materials Research Express</i> , 2014, 1, 045501.	1.6	22
43	Electric field induced metastable ferroelectric phase and its behavior in $(\text{Pb}, \text{La})(\text{Zr}, \text{Sn}, \text{Ti})\text{O}_3$ antiferroelectric single crystal near morphotropic phase boundary. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	37