Fangping Zhuo

List of Publications by Year
in descending order

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43	1,570	331670 21	302126 39
papers	citations	h-index	g-index

44	44	44	974
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aliovalent A-site engineered AgNbO₃ lead-free antiferroelectric ceramics toward superior energy storage density. Journal of Materials Chemistry A, 2019, 7, 14118-14128.	10.3	242
2	Design for high energy storage density and temperature-insensitive lead-free antiferroelectric ceramics. Journal of Materials Chemistry C, 2019, 7, 4999-5008.	5.5	160
3	Ultrahigh energy-storage density in A-/B-site co-doped AgNbO₃ lead-free antiferroelectric ceramics: insight into the origin of antiferroelectricity. Journal of Materials Chemistry A, 2019, 7, 26293-26301.	10.3	136
4	Control of polarization in bulk ferroelectrics by mechanical dislocation imprint. Science, 2021, 372, 961-964.	12.6	84
5	Realizing high low-electric-field energy storage performance in AgNbO3 ceramics by introducing relaxor behaviour. Journal of Materiomics, 2019, 5, 597-605.	5.7	80
6	Giant Negative Electrocaloric Effect in (Pb,La)(Zr,Sn,Ti)O₃ Antiferroelectrics Near Room Temperature. ACS Applied Materials & Interfaces, 2018, 10, 11747-11755.	8.0	75
7	Polymerâ€/Ceramicâ€based Dielectric Composites for Energy Storage and Conversion. Energy and Environmental Materials, 2022, 5, 486-514.	12.8	66
8	Large field-induced strain, giant strain memory effect, and high thermal stability energy storage in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric single crystal. Acta Materialia, 2018, 148, 28-37.	7.9	52
9	High energy storage density and ultrafast discharge in lead lutetium niobate based ceramics. Journal of Materials Chemistry A, 2019, 7, 8414-8422.	10.3	51
10	Coexistence of multiple positive and negative electrocaloric responses in (Pb, La)(Zr, Sn, Ti)O3 single crystal. Applied Physics Letters, 2016, 108, .	3.3	48
11	Field-induced phase transitions and enhanced double negative electrocaloric effects in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric single crystal. Applied Physics Letters, 2018, 112, .	3.3	45
12	Decreasing polar-structure size: Achieving superior energy storage properties and temperature stability in Na0.5Bi0.5TiO3-based ceramics for low electric field and high-temperature applications. Journal of the European Ceramic Society, 2021, 41, 5890-5899.	5.7	41
13	Electric field induced metastable ferroelectric phase and its behavior in (Pb, La)(Zr, Sn, Ti)O3 antiferroelectric single crystal near morphotropic phase boundary. Applied Physics Letters, 2014, 104, .	3.3	37
14	Phase transformations, anisotropic pyroelectric energy harvesting and electrocaloric properties of (Pb,La)(Zr,Sn,Ti)O₃ single crystals. Physical Chemistry Chemical Physics, 2017, 19, 13534-13546.	2.8	37
15	Structural phase transition, depolarization and enhanced pyroelectric properties of (Pb_{1â^'1.5x}La_x)(Zr_{0.66}Sn_{0.23}Ti_{0.11})O₃ solid solution. Journal of Materials Chemistry C, 2016, 4, 7110-7118.	5.5	34
16	Electric field induced phase transition and domain structure evolution in (Pb, La)(Zr, Sn, Ti)O3 single crystal. Applied Physics Letters, 2015, 107, .	3.3	28
17	Temperature induced phase transformations and negative electrocaloric effect in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric single crystal. Journal of Applied Physics, 2017, 122, .	2.5	27
18	Giant shape memory and domain memory effects in antiferroelectric single crystals. Materials Horizons, 2019, 6, 1699-1706.	12.2	27

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19	Field induced phase transitions and energy harvesting performance of (Pb,La)(Zr,Sn,Ti)O3 single crystal. Journal of Applied Physics, 2017, 121, .	2.5	26
20	Perspective on antiferroelectrics for energy storage and conversion applications. Chinese Chemical Letters, 2021, 32, 2097-2107.	9.0	24
21	Effect of A-site La³⁺modified on dielectric and energy storage properties in lead zironate stannate titanate ceramics. Materials Research Express, 2014, 1, 045501.	1.6	22
22	Reversible and High-Temperature-Stabilized Strain in (Pb,La)(Zr,Sn,Ti)O₃ Antiferroelectric Ceramics. ACS Applied Materials & Interfaces, 2019, 11, 32135-32143.	8.0	20
23	Electric Fieldâ€induced Phase Transition Behaviors, Thermal Depolarization, and Enhanced Pyroelectric Properties of (Pb_{0.97}La_{0.02})(Zr_xSn_{0.89â^'x}Ti_{0.11})O₃ Ceramics. Journal of the American Ceramic Society, 2016, 99, 2047-2054.	3.8	18
24	Domain switching and polarization fatigue in rhombohedral PINâ€PMNâ€PT and Mnâ€doped PINâ€PMNâ€PT single crystals. Journal of the American Ceramic Society, 2019, 102, 6668-6679.	3.8	18
25	Mixed Triboelectric and Flexoelectric Charge Transfer at the Nanoscale. Advanced Science, 2021, 8, e2101793.	11.2	18
26	Temperatureâ€induced changes of the electrical and mechanical properties of aerosolâ€deposited BaTiO₃ thick films for energy storage applications. Journal of the American Ceramic Society, 2022, 105, 4108-4121.	3.8	15
27	Anisotropic domain switching in Pb(Mg_{1/3}Nb_{2/3})O₃â€0.30PbTiO₃ single crystals with rhombohedral structure. Journal of the American Ceramic Society, 2018, 101, 3054-3064.	3.8	14
28	Tunable pyroelectricity, depolarization temperature and energy harvesting density in Pb(Lu0.5Nb0.5)O3-xPbTiO3 ceramics. Acta Materialia, 2020, 186, 523-532.	7.9	14
29	Realizing room temperature double hysteresis loops in antiferroelectric NaNbO3 based ceramics. Ceramics International, 2021, 47, 21303-21309.	4.8	12
30	Modulation of electrocaloric effect and nanodomain structure in Mn-doped Pb(In0.5Nb0.5)O3-PbTiO3 ceramics. Ceramics International, 2018, 44, 20417-20426.	4.8	11
31	Observation of a stable fractionalized polar skyrmionlike texture with giant piezoelectric response enhancement. Physical Review B, 2020, 102, .	3.2	11
32	Phase transition and domain configuration of poled rhombohedral PINâ€“PZâ€“PMNâ€“PT single crystals. CrystEngComm, 2016, 18, 5519-5527.	2.6	10
33	Anisotropic field induced phase transitions and negative electrocaloric effect in rhombohedral Mn doped Pb(In1/2Nb1/2)O3-Pb(Mg1/3Nb2/3)O3-PbTiO3 single crystals. Ceramics International, 2018, 44, 9045-9052.	4.8	8
34	Enhanced Energy Storage Density of Lead Lutetium Niobate Crystals by Electric Field-Induced Secondary Phase Transition via Na/La Codoping. ACS Applied Materials & Interfaces, 2020, 12, 28239-28245.	8.0	8
35	Anisotropic temperatureâ€“electric field phase diagrams and domain structure evolution in rhombohedral Mn-doped PINâ€“PMNâ€“PT single crystals. CrystEngComm, 2018, 20, 5169-5179.	2.6	6
36	Phase coexistence and broad depolarization response in (Pb,La)(Zr,Sn,Ti)O3 single crystals. Ceramics International, 2019, 45, 10394-10399.	4.8	6

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37	Pulse discharge characterization of perovskite dielectric ceramics. Journal of Materials Science, 2021, 56, 9894-9902.	3.7	6
38	High-temperature plastic deformation of $$langle 110angle$$-oriented BaTiO3 single crystals. Journal of Materials Research, 2022, 37, 737-746.	2.6	6
39	Field induced O-MC phase transition and domain structure evolution in Pb(Mg1/3Nb2/3)O3-0.34PbTiO3 single crystals under radial poling. Journal of Alloys and Compounds, 2018, 762, 222-230.	5.5	5
40	Phase structure and quasi-single-domain mechanism in Pb(Mg1/3Nb2/3)O3-xPbTiO3 single crystals near morphotropic phase boundary. Journal of Applied Physics, 2019, 126, .	2.5	4
41	Lead titanate-induced abnormal ferroelectric/antiferroelectric phase transitions in Pb(Lu0.5Nb0.5)O3 solid solutions. Materials and Design, 2019, 183, 108168.	7.0	4
42	Multi-step domain switching and polarization fatigue in [110]-oriented 0.67Pb(Mg1/3Nb2/3)O3-0.33PbTiO3 single crystals. Journal of the European Ceramic Society, 2020, 40, 2345-2356.	5.7	4
43	Achieving high energy storage performance of Pb(Lu1/2Nb1/2)O3 antiferroelectric ceramics via equivalent A-site engineering. Journal of the European Ceramic Society, 2022, 42, 5606-5614.	5.7	3