

Zhao Pan

List of Publications by Year in descending order

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51
papers

1,867
citations

331259

21
h-index

264894

42
g-index

52
all docs

52
docs citations

52
times ranked

1902
citing authors

#	ARTICLE	IF	CITATIONS
1	Semiconductor/relaxor A^3 type composites without thermal depolarization in $\text{Bi}_0.5\text{Na}_0.5\text{TiO}_3$ -based lead-free piezoceramics. <i>Nature Communications</i> , 2015, 6, 6615.	5.8	263
2	Giant polarization in super-tetragonal thin films through interphase strain. <i>Science</i> , 2018, 361, 494-497.	6.0	173
3	Zero Thermal Expansion and Ferromagnetism in Cubic ScM_3F_3 ($M = \text{Ga}, \text{Fe}$) over a Wide Temperature Range. <i>Journal of the American Chemical Society</i> , 2014, 136, 13566-13569.	6.6	144
4	Unusual Transformation from Strong Negative to Positive Thermal Expansion in PbTiO_3 . <i>Physical Review Letters</i> , 2013, 110, 115901.	2.9	102
5	Unusual Transformation from Strong Negative to Positive Thermal Expansion in PbTiO_3 . <i>Physical Review Letters</i> , 2013, 110, 115901.	2.9	102
6	Critical Role of Monoclinic Polarization Rotation in High-Performance Perovskite Piezoelectric Materials. <i>Physical Review Letters</i> , 2017, 119, 017601.	2.9	95
7	Atomic Linkage Flexibility Tuned Isotropic Negative, Zero, and Positive Thermal Expansion in M_2ZrF_6 ($M = \text{Ca}, \text{Mn}, \text{Fe}, \text{Co}, \text{Ni}, \text{and Zn}$). <i>Journal of the American Chemical Society</i> , 2016, 138, 14530-14533.	6.6	89
8	Role of Reversible Phase Transformation for Strong Piezoelectric Performance at the Morphotropic Phase Boundary. <i>Physical Review Letters</i> , 2018, 120, 055501.	2.9	84
9	Large Photovoltage and Controllable Photovoltaic Effect in $\text{PbTiO}_3/\text{Bi}(\text{Ni}_{2/3}\text{Nb}_{1/3})\text{O}_3$ Ferroelectrics. <i>Advanced Electronic Materials</i> , 2015, 1, 1400051.	2.9	84
10	Colossal Volume Contraction in Strong Polar Perovskites of $\text{Pb}(\text{Ti},\text{V})\text{O}_3$. <i>Journal of the American Chemical Society</i> , 2017, 139, 14865-14868.	6.6	55
11	Enhanced Piezoelectric Properties and Thermal Stability in the $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$: ZnO Lead-Free Piezoelectric Composites. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3935-3941.	1.9	52
12	Localized Symmetry Breaking for Tuning Thermal Expansion in ScF_3 Nanoscale Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 4477-4480.	6.6	44
13	$\text{Bi}_0.5\text{Na}_0.5\text{TiO}_3$: ZnO lead-free piezoelectric composites with deferred thermal depolarization. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	41
14	High piezoelectric performance in a new Bi-based perovskite of $(1-x)\text{Bi}(\text{Ni}_{1/2}\text{Hf}_{1/2})\text{O}_3-x\text{PbTiO}_3$. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	37
15	Effect of Ba and Pb dual doping on the thermoelectric properties of BiCuSeO ceramics. <i>Materials Letters</i> , 2018, 217, 189-193.	1.3	31
16	Enhanced thermoelectric performances in BiCuSeO oxyselenides via Er and 3D modulation doping. <i>Ceramics International</i> , 2019, 45, 4493-4498.	2.3	30
17	Large Piezoelectric Response and Polarization in Relaxor Ferroelectric $\text{PbTiO}_3/\text{Bi}(\text{Ni}_{1/2}\text{Hf}_{1/2})\text{O}_3$. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1035-1038.	2.9	102
18	Large Negative Thermal Expansion Induced by Synergistic Effects of Ferroelectrostriction and Spin Crossover in PbTiO_3 -Based Perovskites. <i>Chemistry of Materials</i> , 2019, 31, 1296-1303.	3.2	29

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19	Preparation, Structure, and enhanced thermoelectric properties of Sm-doped BiCuSeO oxyselenide. Materials and Design, 2020, 185, 108263.	3.3	29
20	Photoluminescence and Temperature Dependent Electrical Properties of Er ³⁺ -Doped 0.94Bi _{0.5} Na _{0.5} TiO ₃ Ceramics. Journal of the American Ceramic Society, 2014, 97, 3877-3882.	1.9	3
21	Tunable thermal expansion and magnetism in Zr-doped ScF ₃ . Applied Physics Letters, 2016, 109, .	1.5	22
22	Enhanced Piezoelectric Properties of Tetragonal (Bi _{1/2} K _{1/2})TiO ₃ Lead-Free Ceramics by Substitution of Pure Bi ³⁺ -Based Bi(Mg _{2/3} Nb _{1/3})O ₃ . Journal of the American Ceramic Society, 2015, 98, 104-108.	1.9	19
23	Effect of synthesis processes on the thermoelectric properties of BiCuSeO oxyselenides. Journal of Alloys and Compounds, 2018, 754, 131-138.	2.8	19
24	Both electric field and temperature independent behavior of piezoelectric property of Pb(Ni _{1/3} Nb _{2/3})O ₃ ∩PbTiO ₃ . Materials Research Bulletin, 2015, 61, 448-452.	2.7	18
25	The effect of Ni/Sn doping on the thermoelectric properties of BiSbTe polycrystalline bulks. Journal of Solid State Chemistry, 2019, 277, 175-181.	1.4	17
26	Isotropic Zero Thermal Expansion and Local Vibrational Dynamics in (Sc,Fe)F ₃ . Inorganic Chemistry, 2017, 56, 10840-10843.	1.9	16
27	Controllable negative thermal expansion, ferroelectric and semiconducting properties in PbTiO ₃ ∩Bi(Co _{2/3} Nb _{1/3})O ₃ solid solutions. Journal of Materials Chemistry C, 2017, 5, 931-936.	2.7	15
28	Large spontaneous polarization in polar perovskites of PbTiO ₃ ∩Bi(Zn _{1/2} Ti _{1/2})O ₃ . Inorganic Chemistry Frontiers, 2018, 5, 1277-1281.	3.0	15
29	Melting of dxy Orbital Ordering Accompanied by Suppression of Giant Tetragonal Distortion and Insulator-to-Metal Transition in Cr-Substituted PbVO ₃ . Chemistry of Materials, 2019, 31, 1352-1358.	3.2	15
30	The Distortion-Adjusted Change of Thermal Expansion Behavior of Cubic Magnetic Semiconductor (Sc) Tj ETQq0 0.0 rgBT /Overlock 10 Tf 50	1.9	14
31	Giant Polarization and High Temperature Monoclinic Phase in a Lead-Free Perovskite of Bi(Zn _{0.5} Ti _{0.5})O ₃ -BiFeO ₃ . Inorganic Chemistry, 2016, 55, 9513-9516.	1.9	14
32	Pronounced Negative Thermal Expansion in Lead-Free BiCoO ₃ -Based Ferroelectrics Triggered by the Stabilized Perovskite Structure. Chemistry of Materials, 2019, 31, 6187-6192.	3.2	14
33	Negative Thermal Expansion in Lead-Free La-Substituted Bi _{0.5} Na _{0.5} VO ₃ . Chemistry of Materials, 2020, 32, 4832-4837.	3.2	14
34	Origin and Absence of Giant Negative Thermal Expansion in Reduced and Oxidized Ca ₂ RuO ₄ . Chemistry of Materials, 0, , .	3.2	14
35	Zero Thermal Expansion and Semiconducting Properties in PbTiO ₃ ∩Bi(Co,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.9	13
36	Enhancing thermoelectric and mechanical performances in BiCuSeO by increasing bond covalency and nanostructuring. Journal of Solid State Chemistry, 2018, 265, 306-313.	1.4	12

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37	Thermal stability of n -type zone-melting $\text{Bi}_2(\text{Te, Se})_3$ alloys for thermoelectric generation. <i>Materials Research Express</i> , 2019, 6, 035907.	0.8	11
38	Polarization Rotation at Morphotropic Phase Boundary in New Lead-Free $\text{Na}_{1/2}\text{Bi}_{1/2}\text{V}_2\text{TiO}_3$ Piezoceramics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5208-5215.	4.0	11
39	Large-scale Synthesis of Isotropic Single-Crystalline ScF_3 Cubes by Hydrothermal Method. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1386-1388.	1.9	10
40	Multiple contributions to electrostrain in high performance $\text{PbTiO}_3\sim\text{Bi}(\text{Ni}_{1/2}\text{Hf}_{1/2})\text{O}_3$ piezoceramics triggered by phase transformation. <i>Journal of the European Ceramic Society</i> , 2019, 39, 5277-5284.	2.8	10
41	Synergistic effects of Bi Deficiencies and Fe-doping on the thermoelectric properties and hardness of BiCuSeO ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2018, 126, 699-705.	0.5	9
42	Metamagnetism stabilized giant magnetoelectric coupling in ferroelectric $x\text{BaTiO}_3\sim(1-x)\text{BiCoO}_3$ solid solution. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7021-7032.	1.3	8
43	Enhanced tetragonality and large negative thermal expansion in a new Pb/Bi-based perovskite ferroelectric of $(1-x)\text{TjETQq1}1.0.784314\text{rgBT}/\text{Overlock}10\text{Tf}50502\text{Td}(x)\text{PbTiO}_3\sim\text{Bi}(\text{Zn}_{1/2}\text{Hf}_{1/2})\text{O}_3$. <i>Chemistry Frontiers</i> , 2019, 6, 1990-1995.	3.0	8
44	Enhanced high-temperature piezoelectric properties of traditional $\text{Pb}(\text{Zr,Ti})\text{O}_3$ ceramics by a small amount substitution of KNbO_3 . <i>Materials Research Express</i> , 2014, 1, 046301.	0.8	6
45	Tolerance Factor Control of Tetragonality and Negative Thermal Expansion in PbTiO_3 -Based Ferroelectrics. <i>Chemistry of Materials</i> , 2022, 34, 2798-2803.	3.2	6
46	Preparation and characterization of high Curie-temperature piezoelectric ceramics in a new Bi-based perovskite of $(1-x)\text{PbTiO}_3\sim\text{Bi}(\text{Zn}_{1/2}\text{Hf}_{1/2})\text{O}_3$. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1352-1355.	3.0	5
47	Observation of Stabilized Monoclinic Phase as a "Bridge" at the Morphotropic Phase Boundary between Tetragonal Perovskite PbVO_3 and Rhombohedral BiFeO_3 . <i>Chemistry of Materials</i> , 2020, 32, 3615-3620.	3.2	5
48	Transformation of Thermal Expansion from Large Volume Contraction to Nonlinear Strong Negative Thermal Expansion in $\text{PbTiO}_3\sim\text{Bi}(\text{Co}_{1-x}\text{Fe}_x)\text{O}_3$ Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23610-23616.	4.0	5
49	Preparation and electrical properties of the new lead-free $(1-x)\text{TjETQq1}1.0.784314\text{rgBT}/\text{Overlock}10\text{Tf}50267\text{Td}(x)\text{PbTiO}_3\sim\text{Bi}(\text{Zn}_{1/2}\text{Hf}_{1/2})\text{O}_3$ piezoelectric ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 1038-1042.	0.5	4
50	Polarization- and Strain-Mediated Control of Negative Thermal Expansion and Ferroelasticity in $\text{BiInO}_3\sim\text{BiZn}_{1/2}\text{Ti}_{1/2}\text{O}_3$. <i>Chemistry of Materials</i> , 2021, 33, 1498-1505.	3.2	4
51	Realization of Negative Thermal Expansion in Lead-Free $\text{Bi}_0.5\text{K}_0.5\text{VO}_3$ by the Suppression of Tetragonality. <i>Inorganic Chemistry</i> , 2022, , .	1.9	3