

Zhao Pan

List of Publications by Year in descending order

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papers

1,867
citations

331259

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264894

42
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#	ARTICLE	IF	CITATIONS
1	Realization of Negative Thermal Expansion in Lead-Free Bi _{0.5} K _{0.5} VO ₃ by the Suppression of Tetragonality. <i>Inorganic Chemistry</i> , 2022, , .	1.9	3
2	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
3	Transformation of Thermal Expansion from Large Volume Contraction to Nonlinear Strong Negative Thermal Expansion in PbTiO ₃ -Bi(Co _{1-x} Fe _x)O ₃ Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23610-23616.	4.0	5
4	Polarization Rotation at Morphotropic Phase Boundary in New Lead-Free Na _{1/2} Bi _{1/2} V _{1-x} Ti _x O ₃ Piezoceramics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5208-5215.	4.0	11
5	Polarization- and Strain-Mediated Control of Negative Thermal Expansion and Ferroelasticity in BiInO ₃ -BiZn _{1/2} Ti _{1/2} O ₃ . <i>Chemistry of Materials</i> , 2021, 33, 1498-1505.	3.2	4
6	Preparation, Structure, and enhanced thermoelectric properties of Sm-doped BiCuSeO oxyselenide. <i>Materials and Design</i> , 2020, 185, 108263.	3.3	29
7	Negative Thermal Expansion in Lead-Free La-Substituted Bi _{0.5} Na _{0.5} VO ₃ . <i>Chemistry of Materials</i> , 2020, 32, 4832-4837.	3.2	14
8	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
9	Multiple contributions to electrostrain in high performance PbTiO ₃ -Bi(Ni _{1/2} Hf _{1/2})O ₃ piezoceramics triggered by phase transformation. <i>Journal of the European Ceramic Society</i> , 2019, 39, 5277-5284.	2.8	10
10	Pronounced Negative Thermal Expansion in Lead-Free BiCoO ₃ -Based Ferroelectrics Triggered by the Stabilized Perovskite Structure. <i>Chemistry of Materials</i> , 2019, 31, 6187-6192.	3.2	14
11	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
12	The effect of Ni/Sn doping on the thermoelectric properties of BiSbTe polycrystalline bulks. <i>Journal of Solid State Chemistry</i> , 2019, 277, 175-181.	1.4	17
13	Enhanced tetragonality and large negative thermal expansion in a new Pb/Bi-based perovskite ferroelectric of (1-x)Tl _{0.784314} Bi _{0.215686} (Zn _{1/2} VO ₃). <i>Chemistry Frontiers</i> , 2019, 6, 1990-1995.	3.0	8
14	Melting of dxy Orbital Ordering Accompanied by Suppression of Giant Tetragonal Distortion and Insulator-to-Metal Transition in Cr-Substituted PbVO ₃ . <i>Chemistry of Materials</i> , 2019, 31, 1352-1358.	3.2	15
15	Thermal stability of n-type zone-melting Bi ₂ (Te, Se) ₃ alloys for thermoelectric generation. <i>Materials Research Express</i> , 2019, 6, 035907.	0.8	11
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	Metamagnetism stabilized giant magnetoelectric coupling in ferroelectric xBaTiO ₃ -(1-x)BiCoO ₃ solid solution. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7021-7032.	1.3	8
18	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

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19	Effect of Ba and Pb dual doping on the thermoelectric properties of BiCuSeO ceramics. Materials Letters, 2018, 217, 189-193.	1.3	31
20	Effect of synthesis processes on the thermoelectric properties of BiCuSeO oxyselenides. Journal of Alloys and Compounds, 2018, 754, 131-138.	2.8	19
21	Large spontaneous polarization in polar perovskites of $\text{PbTiO}_3 \text{Bi}(\text{Zn}_{1/2}\text{Ti}_{1/2})\text{O}_3$. Inorganic Chemistry Frontiers, 2018, 5, 1277-1281.	3.0	15
22	Localized Symmetry Breaking for Tuning Thermal Expansion in ScF_3 Nanoscale Frameworks. Journal of the American Chemical Society, 2018, 140, 4477-4480.	6.6	44
23	Synergistic effects of Bi Deficiencies and Fe-doping on the thermoelectric properties and hardness of BiCuSeO ceramics. Journal of the Ceramic Society of Japan, 2018, 126, 699-705.	0.5	9
24	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
25	Giant polarization in super-tetragonal thin films through interphase strain. Science, 2018, 361, 494-497.	6.0	173
26	Controllable negative thermal expansion, ferroelectric and semiconducting properties in $\text{PbTiO}_3 \text{Bi}(\text{Co}_{2/3}\text{Nb}_{1/3})\text{O}_3$ solid solutions. Journal of Materials Chemistry C, 2017, 5, 931-936.	2.7	15
27	Zero Thermal Expansion and Semiconducting Properties in $\text{PbTiO}_3 \text{Bi}(\text{Co}_x)$ Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 1.9 13	1.9	13
28	Colossal Volume Contraction in Strong Polar Perovskites of $\text{Pb}(\text{Ti},\text{V})\text{O}_3$. Journal of the American Chemical Society, 2017, 139, 14865-14868.	6.6	55
29	Isotropic Zero Thermal Expansion and Local Vibrational Dynamics in $(\text{Sc},\text{Fe})\text{F}_3$. Inorganic Chemistry, 2017, 56, 10840-10843.	1.9	16
30	Critical Role of Monoclinic Polarization Rotation in High-Performance Perovskite Piezoelectric Materials. Physical Review Letters, 2017, 119, 017601.	2.9	95
31	Preparation and characterization of high Curie-temperature piezoelectric ceramics in a new Bi-based perovskite of $(1-x)\text{PbTiO}_3 \text{Bi}(\text{Zn}_{1/2}\text{Hf}_{1/2})\text{O}_3$. Inorganic Chemistry Frontiers, 2017, 4, 1352-1355.	3.0	5
32	Tunable thermal expansion and magnetism in Zr-doped ScF_3 . Applied Physics Letters, 2016, 109, .	1.5	22
33	The Distortion-Adjusted Change of Thermal Expansion Behavior of Cubic Magnetic Semiconductor (Sc) Tj ETQq1 1 0.784314 rgBT / Ov 1.9 14	1.9	14
34	Giant Polarization and High Temperature Monoclinic Phase in a Lead-Free Perovskite of $\text{Bi}(\text{Zn}_{0.5}\text{Ti}_{0.5})\text{O}_3 \text{BiFeO}_3$. Inorganic Chemistry, 2016, 55, 9513-9516.	1.9	14
35	Thermoelectric Properties of the Monoclinic Phase in $\text{Pb}(\text{Zn}_{1/2}\text{Ti}_{1/2})\text{O}_3$ Tj ETQq1 1 0.784314 rgBT 2.9 102	2.9	102
36	Atomic Linkage Flexibility Tuned Isotropic Negative, Zero, and Positive Thermal Expansion in MZrF_6 (M = Ca, Mn, Fe, Co, Ni, and Zn). Journal of the American Chemical Society, 2016, 138, 14530-14533.	6.6	89

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37	Preparation and electrical properties of the new lead-free $(1-x)$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td $(1-x)$ Bi _{1-x} Bi _{0.5-x} piezoelectric ceramics. Journal of the Ceramic Society of Japan, 2015, 123, 1038-1042.	0.5	4
38	Enhanced Piezoelectric Properties and Thermal Stability in the $(K_{0.5-x}Na_{0.5-x})NbO_3$:ZnO Lead-Free Piezoelectric Composites. Journal of the American Ceramic Society, 2015, 98, 3935-3941.	1.9	52
39	Enhanced Piezoelectric Properties of Tetragonal $(Bi_{1/2-x}K_{1/2-x})TiO_3$ Lead-Free Ceramics by Substitution of Pure Bi-Based $Bi(Mg_{2/3-x}Nb_{1/3-x})O_3$. Journal of the American Ceramic Society, 2015, 98, 104-108.	1.9	19
40	Bi _{0.5} Na _{0.5} TiO ₃ :ZnO lead-free piezoelectric composites with deferred thermal depolarization. Applied Physics Letters, 2015, 106, .	1.5	41
41	Semiconductor/relaxor A^3 type composites without thermal depolarization in Bi _{0.5} Na _{0.5} TiO ₃ -based lead-free piezoceramics. Nature Communications, 2015, 6, 6615.	5.8	263
42	Large Photovoltage and Controllable Photovoltaic Effect in $PbTiO_3$ - $\text{Bi}(\text{Ni}_{2/3-x}\text{Nb}_{1/3-x})O_3$ Ferroelectrics. Advanced Electronic Materials, 2015, 1, 1400051.	2.4	16
43	Both electric field and temperature independent behavior of piezoelectric property of $Pb(\text{Ni}_{1/3}\text{Nb}_{2/3})O_3$ - $PbTiO_3$. Materials Research Bulletin, 2015, 61, 448-452.	2.7	18
44	Enhanced high-temperature piezoelectric properties of traditional $Pb(\text{Zr,Ti})O_3$ ceramics by a small amount substitution of KNbO_3 . Materials Research Express, 2014, 1, 046301.	0.8	6
45	Large-scale Synthesis of Isotropic Single-crystalline ScF_3 Cubes by Hydrothermal Method. Journal of the American Ceramic Society, 2014, 97, 1386-1388.	1.9	10
46	Photoluminescence and Temperature Dependent Electrical Properties of Er-Doped $0.94\text{Bi}_{0.5-x}\text{Na}_{0.5-x}\text{TiO}_3$ Ceramics. Journal of the American Ceramic Society, 2014, 97, 3877-3882.	1.9	25
47	Zero Thermal Expansion and Ferromagnetism in Cubic ScM_3F_3 ($M = \text{Ga, Fe}$) over a Wide Temperature Range. Journal of the American Chemical Society, 2014, 136, 13566-13569.	6.6	144
48	Unusual Transformation from Strong Negative to Positive Thermal Expansion in PbTiO_3 and BiFeO_3 . Physical Review Letters, 2013, 110, 115901.	2.9	102
49	Large Piezoelectric Response and Polarization in Relaxor Ferroelectric PbTiO_3 - $\text{Bi}(\text{Ni}_{1/2-x}\text{Nb}_{1/2-x})O_3$. Journal of the American Ceramic Society, 2013, 96, 1035-1038.	2.9	102
50	High piezoelectric performance in a new Bi-based perovskite of $(1-x)\text{Bi}(\text{Ni}_{1/2}\text{Hf}_{1/2})O_3$ - $x\text{PbTiO}_3$. Journal of Applied Physics, 2012, 112, .	1.1	37
51	Origin and Absence of Giant Negative Thermal Expansion in Reduced and Oxidized Ca_2RuO_4 . Chemistry of Materials, 0, , .	3.2	14