

Kun Lin

List of Publications by Year in descending order

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63
papers

1,259
citations

331259

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395343

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66
all docs

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docs citations

66
times ranked

1305
citing authors

#	ARTICLE	IF	CITATIONS
1	Negative thermal expansion in molecular materials. <i>Chemical Communications</i> , 2018, 54, 5164-5176.	2.2	104
2	Tunable thermal expansion in framework materials through redox intercalation. <i>Nature Communications</i> , 2017, 8, 14441.	5.8	95
3	Zero Thermal Expansion in Magnetic and Metallic Tb(Co,Fe) ₂ Intermetallic Compounds. <i>Journal of the American Chemical Society</i> , 2018, 140, 602-605.	6.6	87
4	CoFeCl Layered Double Hydroxide: A New Cathode Material for High-Performance Chloride Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1900983.	7.8	83
5	Chemical Diversity for Tailoring Negative Thermal Expansion. <i>Chemical Reviews</i> , 2022, 122, 8438-8486.	23.0	51
6	Identifying the Emission Centers and Probing the Mechanism for Highly Efficient and Thermally Stable Luminescence in the La ₃ Si ₆ N ₁₁ :Ce ³⁺ Phosphor. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7849-7858.	1.5	43
7	Unusual Strong Incommensurate Modulation in a Tungsten-Bronze-Type Relaxor PbBiNb ₅ O ₁₅ . <i>Journal of the American Chemical Society</i> , 2015, 137, 13468-13471.	6.6	37
8	Twin Crystal Induced near Zero Thermal Expansion in SnO ₂ Nanowires. <i>Journal of the American Chemical Society</i> , 2018, 140, 7403-7406.	6.6	37
9	Chemical-Pressure-Modulated BaTiO ₃ Thin Films with Large Spontaneous Polarization and High Curie Temperature. <i>Journal of the American Chemical Society</i> , 2021, 143, 6491-6497.	6.6	37
10	Electric-field-induced structure and domain texture evolution in PbZrO ₃ -based antiferroelectric by in-situ high-energy synchrotron X-ray diffraction. <i>Acta Materialia</i> , 2020, 184, 41-49.	3.8	36
11	3D negative thermal expansion in orthorhombic MIL-68(In). <i>Chemical Communications</i> , 2018, 54, 5712-5715.	2.2	34
12	An intriguing intermediate state as a bridge between antiferroelectric and ferroelectric perovskites. <i>Materials Horizons</i> , 2020, 7, 1912-1918.	6.4	34
13	Strong Second Harmonic Generation in a Tungsten Bronze Oxide by Enhancing Local Structural Distortion. <i>Journal of the American Chemical Society</i> , 2020, 142, 7480-7486.	6.6	33
14	Structure and thermal expansion of the tungsten bronze Pb ₂ KNb ₅ O ₁₅ . <i>Dalton Transactions</i> , 2014, 43, 7037-7043.	1.6	28
15	Ultrawide Temperature Range Superlattice Behavior of $\text{Pb}_{2-x}\text{Fe}_x\text{KNb}_5\text{O}_{15}$. <i>Journal of the American Chemical Society</i> , 2015, 137, 13468-13471.	6.6	37

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19	Structure and Phase Transformation in the Giant Magnetostriction Laves-Phase SmFe_2 . Inorganic Chemistry, 2018, 57, 689-694.	1.9	23
20	Effect of Y^{3+} on the local structure and luminescent properties of $\text{La}_3\text{Si}_6\text{N}_{11}:\text{Ce}^{3+}$ phosphors for high power LED lighting. RSC Advances, 2016, 6, 77059-77065.	1.7	22
21	Large negative thermal expansion in non-perovskite lead-free ferroelectric $\text{Sn}_2\text{P}_2\text{S}_6$. Physical Chemistry Chemical Physics, 2016, 18, 6247-6251.	1.3	22
22	Negative Pressure-Induced Large Polarization in Nanosized PbTiO_3 . Advanced Materials, 2020, 32, e2002968.	11.1	20
23	High performance and low thermal expansion in Er-Fe-V-Mo dual-phase alloys. Acta Materialia, 2020, 198, 271-280.	3.8	20
24	Adjustable Magnetic Phase Transition Inducing Unusual Zero Thermal Expansion in Cubic RCo_2 -Based Intermetallic Compounds (R = Rare Earth). Inorganic Chemistry, 2019, 58, 5401-5405.	1.9	19
25	Iron vacancy in tetragonal Fe_1S crystals and its effect on the structure and superconductivity. Physical Chemistry Chemical Physics, 2017, 19, 9000-9006.	1.3	18
26	Structure and oxide ion conductivity in tetragonal tungsten bronze $\text{BaBiNb}_5\text{O}_{15}$. RSC Advances, 2015, 5, 71890-71895.	1.7	16
27	Structure and electrical properties of tetragonal tungsten bronze $\text{Ba}_2\text{CeFeNb}_4\text{O}_{15}$. RSC Advances, 2015, 5, 76957-76962.	1.7	14
28	Phase transition and negative thermal expansion in orthorhombic $\text{Dy}_2\text{W}_3\text{O}_{12}$. RSC Advances, 2016, 6, 96275-96280.	1.7	14
29	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
30	Negative Thermal Expansion in $(\text{Hf,Ti})\text{Fe}_2$ Induced by the Ferromagnetic and Antiferromagnetic Phase Coexistence. Inorganic Chemistry, 2019, 58, 5380-5383.	1.9	14
31	Site occupancy and photoluminescence tuning of $\text{La}_3\text{Si}_6\text{Al}_3\text{N}_{11}:\text{Ce}^{3+}$ phosphors for high power white light-emitting diodes. CrystEngComm, 2017, 19, 2836-2843.	1.3	13
32	Thermal Expansion Anomaly in TTB Ferroelectrics: The Interplay between Framework Structure and Electric Polarization. Inorganic Chemistry, 2016, 55, 8130-8139.	1.9	12
33	Inorganic-organic hybridization induced uniaxial zero thermal expansion in MC_4O_4 (M = Ba, Pb). Chemical Communications, 2019, 55, 4107-4110.	2.2	12
34	A Seawater-Corrosion-Resistant and Isotropic Zero Thermal Expansion $(\text{Zr,Ta})(\text{Fe,Co})_2$ Alloy. Advanced Materials, 2022, 34, .	11.1	12
35	KFeCuTe_2 : a new compound to study the removal of interstitial Fe in layered tellurides. Dalton Transactions, 2017, 46, 3649-3654.	1.6	11
36	Ferroelectric thin films: performance modulation and application. Materials Advances, 2022, 3, 5735-5752.	2.6	11

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37	Thermal Expansion and Second Harmonic Generation Response of the Tungsten Bronze Pb ₂ AgNb ₅ O ₁₅ . <i>Inorganic Chemistry</i> , 2016, 55, 2864-2869.	1.9	10
38	Cation deficiency effect on negative thermal expansion of ferroelectric PbTiO ₃ . <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 1091-1094.	3.0	9
39	Role of "Dumbbell" Pairs of Fe in Spin Alignments and Negative Thermal Expansion of Lu ₂ Fe ₁₇ -Based Intermetallic Compounds. <i>Inorganic Chemistry</i> , 2020, 59, 11228-11232.	1.9	9
40	Strong Coupling of Magnetism and Lattice Induces Near-Zero Thermal Expansion over Broad Temperature Windows in ErFe ₁₀ V ₂ Mo _x Compounds. <i>CCS Chemistry</i> , 2021, 3, 1009-1015.	4.6	9
41	Influences of manganese content and heat treatment on mechanical properties of precipitation-strengthened steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 837, 142724.	2.6	9
42	Oxygen vacancy distributions and electron localization in a CeO ₂ (100) nanocube. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 275-283.	3.0	8
43	Tailoring Negative Thermal Expansion in Ferroelectric Sn ₂ P ₂ S ₆ by Lone-Pair Cations. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1832-1837.	1.5	6
44	A case of multifunctional intermetallic compounds: negative thermal expansion coupling with magnetocaloric effect in (Gd,Ho)(Co,Fe) ₂ . <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3146-3151.	3.0	6
45	Neutron Diffraction Study of Unusual Magnetic Behaviors in the Ho ₂ Fe ₁₁ Al ₆ Intermetallic Compound. <i>Inorganic Chemistry</i> , 2019, 58, 13742-13745.	1.9	6
46	Evidence of the enhanced negative thermal expansion in (1 - x)PbTiO ₃ -xBi(Zn ₂ /3Ta ₁ /3)O ₃ . <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1284-1288.	3.0	6
47	Two-dimensional zero thermal expansion in low-cost Mn _x Fe _{5-x} Si ₃ alloys via integrating crystallographic texture and magneto-volume effect. <i>Science China Materials</i> , 2022, 65, 1912-1919.	3.5	6
48	Strong Covalent Bonding for Enhanced Negative Thermal Expansion in (1 - x)TjETQqO ₀ 0rgBT /Overlock 10 Tf 50 307 Td (x)Pb ₂₀₄₄₅ -20449.	1.5	5
49	Structural Distortion and Dielectric Permittivities of KCoO ₂ -Type Layered Nitrides Ca _{1-x} Sr _x TiN ₂ . <i>Inorganic Chemistry</i> , 2020, 59, 9693-9698.	1.9	5
50	Manipulating Spin Alignments of (Y,Lu) _{1.7} Fe ₁₇ Intermetallic Compounds via Unusual Thermal Pressure. <i>Inorganic Chemistry</i> , 2020, 59, 5247-5251.	1.9	5
51	Effects of Subsurface Oxide on Cu ₁ /CeO ₂ Single-Atom Catalysts for CO Oxidation: A Theoretical Investigation. <i>Inorganic Chemistry</i> , 2022, 61, 10006-10014.	1.9	5
52	Tunable thermal expansion and high hardness of (0.9 - x)PbTiO ₃ - xCaTiO ₃ - 0.1Bi(Zn ₂ /3Ta ₁ /3)O ₃ ceramics. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1068-1072.		
53	Structure and control of negative thermal expansion of Nd/Sm substituted 0.5PbTiO ₃ - 0.5BiFeO ₃ ferroelectrics. <i>RSC Advances</i> , 2016, 6, 32979-32982.	1.7	3
54	The multiferroics in (111)-orientated PbTiO ₃ :µ-Fe ₂ O ₃ nanocomposite thin film. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 344001.	1.3	3

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55	Large nonlinear optical effect in tungsten bronze structures via Li/Na cross-substitutions. <i>Chemical Communications</i> , 2020, 56, 8384-8387.	2.2	3
56	Zero Thermal Expansion and Strong Covalent Binding of VB ₂ Compound. <i>Inorganic Chemistry</i> , 2021, 60, 10095-10099.	1.9	3
57	Chemical order-disorder nanodomains in Fe ₃ Pt bulk alloy. <i>National Science Review</i> , 2022, 9, .	4.6	3
58	Defect dipole-induced domain reorientation of NdFeO ₃ –PbTiO ₃ thin films. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1156-1161.	3.0	2
59	Semi-empirical estimation for enhancing negative thermal expansion in PbTiO ₃ -based perovskites. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 783-786.	2.4	2
60	Two-Dimensional Negative Thermal Expansion in a Facile and Low-Cost Oxalate-Based Metal–Organic Framework. <i>Inorganic Chemistry</i> , 2022, 61, 8634-8638.	1.9	2
61	Anomalous dispersion X-ray diffraction study of Pb/Bi ordering/disordering states in PbTiO ₃ -based perovskite oxides. <i>Dalton Transactions</i> , 2017, 46, 733-738.	1.6	1
62	Enhanced ferroelectricity in NaNbO ₃ –LaCoO ₃ :Mn epitaxial thin film. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 5124-5129.	3.0	1
63	Effect of carbon on the microstructure and element distribution in Ti ₄₂ Al ₅ Mn alloy. <i>Materials Science and Technology</i> , 2020, 36, 1883-1892.	0.8	0