

# Lei Hu

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

2,314  
citations

257101

24  
h-index

214527

47  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1820  
citing authors



#	ARTICLE	IF	CITATIONS
19	Large spontaneous polarization in polar perovskites of $\text{PbTiO}_3 \cdot \text{Bi}(\text{Zn}_{1/2}\text{Ti}_{1/2})\text{O}_3$ . <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1277-1281.	3.0	15
20	Localized Symmetry Breaking for Tuning Thermal Expansion in $\text{ScF}_3$ Nanoscale Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 4477-4480.	6.6	44
21	Construction of multi-shelled $\text{Bi}_2\text{WO}_6$ hollow microspheres with enhanced visible light photo-catalytic performance. <i>Materials Research Bulletin</i> , 2018, 99, 331-335.	2.7	29
22	Controllable Thermal Expansion and Crystal Structure of $(\text{Fe}_{1-x}\text{Ni}_x)\text{ZrF}_6$ Solid Solutions. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2018, 34, 339-343.	2.2	5
23	Zero Thermal Expansion and Semiconducting Properties in $\text{PbTiO}_3 \cdot \text{Bi}(\text{Co}, \text{Tj})\text{ETQq1}$ . <i>Journal of Applied Physics</i> , 2019, 125, 104301.	1.9	13
24	Tunable thermal expansion in framework materials through redox intercalation. <i>Nature Communications</i> , 2017, 8, 14441.	5.8	95
25	Structural Evidence for Strong Coupling between Polarization Rotation and Lattice Strain in Monoclinic Relaxor Ferroelectrics. <i>Chemistry of Materials</i> , 2017, 29, 5767-5771.	3.2	36
26	Local structure and controllable thermal expansion in the solid solution $(\text{Mn}_{1-x}\text{Ni}_x)\text{ZrF}_6$ . <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 343-347.	3.0	12
27	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
28	Isotropic Zero Thermal Expansion and Local Vibrational Dynamics in $(\text{Sc},\text{Fe})\text{F}_3$ . <i>Inorganic Chemistry</i> , 2017, 56, 10840-10843.	1.9	16
29	Zero thermal expansion in cubic $\text{MgZrF}_6$ . <i>Journal of the American Ceramic Society</i> , 2017, 100, 5385-5388.	1.9	17
30	Structure, Magnetism, and Tunable Negative Thermal Expansion in $(\text{Hf},\text{Nb})\text{Fe}_2$ Alloys. <i>Chemistry of Materials</i> , 2017, 29, 7078-7082.	3.2	27
31	Preparation and characterization of high Curie-temperature piezoelectric ceramics in a new Bi-based perovskite of $(1-x)\text{PbTiO}_3 \cdot x\text{Bi}(\text{Zn}_{1/2}\text{Hf}_{1/2})\text{O}_3$ . <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1352-1355.	3.0	5
32	Tunable thermal expansion and magnetism in Zr-doped $\text{ScF}_3$ . <i>Applied Physics Letters</i> , 2016, 109, .	1.5	22
33	The Distortion-Adjusted Change of Thermal Expansion Behavior of Cubic Magnetic Semiconductor $(\text{Sc})\text{ETQq1}$ . <i>Journal of Applied Physics</i> , 2019, 125, 104301.	1.9	14
34	Giant Polarization and High Temperature Monoclinic Phase in a Lead-Free Perovskite of $\text{Bi}(\text{Zn}_{0.5}\text{Ti}_{0.5})\text{O}_3 \cdot \text{BiFeO}_3$ . <i>Inorganic Chemistry</i> , 2016, 55, 9513-9516.	1.9	14
35	Atomic Linkage Flexibility Tuned Isotropic Negative, Zero, and Positive Thermal Expansion in $\text{MZrF}_6$ ( $\text{M} = \text{Ca}, \text{Mn}, \text{Fe}, \text{Co}, \text{Ni}, \text{and Zn}$ ). <i>Journal of the American Chemical Society</i> , 2016, 138, 14530-14533.	6.6	89
36	Lattice dynamics and anharmonicity of $\text{CaZrF}_6$ from Raman spectroscopy and ab initio calculations. <i>Materials Chemistry and Physics</i> , 2016, 180, 213-218.	2.0	28

#	ARTICLE	IF	CITATIONS
37	New Insights into the Negative Thermal Expansion: Direct Experimental Evidence for the "Guitar-String" Effect in Cubic $\text{ScF}_3$ . <i>Journal of the American Chemical Society</i> , 2016, 138, 8320-8323.	6.6	115
38	Large negative thermal expansion in non-perovskite lead-free ferroelectric $\text{Sn}_2\text{P}_2\text{S}_6$ . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6247-6251.	1.3	22
39	$\text{TiO}_2/\text{CdS}$ porous hollow microspheres rapidly synthesized by salt-assistant aerosol decomposition method for excellent photocatalytic hydrogen evolution performance. <i>Dalton Transactions</i> , 2016, 45, 1160-1165.	1.6	26
40	High Curie Temperature Ferromagnetism in $(\text{Sc,Fe})\text{F}_3$ Fluorides and its Dependence on Chemical Valence. <i>Advanced Materials</i> , 2015, 27, 4592-4596.	11.1	25
41	Enhanced photocatalytic hydrogen evolution efficiency using hollow microspheres of $(\text{CuIn})_x\text{Zn}_{2(1-x)}\text{S}_2$ solid solutions. <i>Dalton Transactions</i> , 2015, 44, 10991-10996.	1.6	9
42	Low temperature molten salt synthesis of perovskite-type $\text{ACeO}_3$ (A=Sr, Ba) in eutectic NaCl-KCl. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 342-346.	1.3	7
43	Negative thermal expansion in functional materials: controllable thermal expansion by chemical modifications. <i>Chemical Society Reviews</i> , 2015, 44, 3522-3567.	18.7	527
44	Large Scale Synthesis of Isotropic Single Crystalline $\text{ScF}_3$ Cubes by Hydrothermal Method. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1386-1388.	1.9	10
45	Rapid Molten Salt Synthesis of Isotropic Negative Thermal Expansion $\text{ScF}_3$ . <i>Journal of the American Ceramic Society</i> , 2014, 97, 1009-1011.	1.9	19
46	A general and rapid synthesis of metal sulphides hollow spheres that have properties enhanced by salt-assisted aerosol decomposition: a case of ZnS and other multicomponent solid solutions. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8564-8568.	2.7	8
47	Zero Thermal Expansion and Ferromagnetism in Cubic $\text{Sc}_x\text{M}_x\text{F}_3$ (M = Ga, Fe) over a Wide Temperature Range. <i>Journal of the American Chemical Society</i> , 2014, 136, 13566-13569.	6.6	144
48	Effectively control negative thermal expansion of single-phase ferroelectrics of $\text{PbTiO}_3$ -(Bi,Lu)FeO <sub>3</sub> over a giant range. <i>Scientific Reports</i> , 2013, 3, 2458.	1.6	91
49	Origin and Absence of Giant Negative Thermal Expansion in Reduced and Oxidized $\text{Ca}_2\text{RuO}_4$ . <i>Chemistry of Materials</i> , 0, , .	3.2	14