Lei Wang

List of Publications by Year
in descending order

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35 papers	911 citations	471477 17 h-index	454934 30 g-index
35 all docs	35 docs citations	35 times ranked	1011 citing authors

#	Article	IF	Citations
1	Enhanced thermal stability of Mo film with low infrared emissivity by a TiN barrier layer. Applied Surface Science, 2022, 571, 151368.	6.1	10
2	Optical Performance, Thermal Stability, and Failure Analysis of the WN_x-Si₃N₄ Multilayer Solar Selective Absorbing Coatings. ACS Applied Energy Materials, 2022, 5, 1883-1893.	5.1	7
3	Adjustable uniaxial zero thermal expansion and zero linear compressibility in unique hybrid semiconductors: the role of the organic chain. Dalton Transactions, 2020, 49, 719-728.	3.3	16
4	Synthesis of BiOF/TiO₂ Heterostructures and Their Enhanced Visibleâ€Light Photocatalytic Activity. European Journal of Inorganic Chemistry, 2020, 2020, 253-260.	2.0	6
5	Black phosphorene exhibiting negative thermal expansion and negative linear compressibility. Journal of Physics Condensed Matter, 2019, 31, 465003.	1.8	9
6	Giant zero-field cooling exchange-bias-like behavior in antiperovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi></mml:mrow></mml:math>	2.4	3
7	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>	3.2	20
8	Extraordinary electrocatalytic performance for formic acid oxidation by the synergistic effect of Pt and Au on carbon black. Nano Energy, 2018, 48, 1-9.	16.0	77
9	Phase separation and zero thermal expansion in antiperovskite Mn3Zn0.77Mn0.19N0.94: An in situ neutron diffraction investigation. Scripta Materialia, 2018, 146, 18-21.	5.2	4
10	Negative/zero thermal expansion in black phosphorus nanotubes. Physical Chemistry Chemical Physics, 2018, 20, 28726-28731.	2.8	11
11	Tunable thermal expansion in framework materials through redox intercalation. Nature Communications, 2017, 8, 14441.	12.8	95
12	Rectifying Characteristics and Semiconductorâ€“Metal Transition Induced by Interfacial Potential in the Mn3CuN/n-Si Intermetallic Heterojunction. ACS Applied Materials & Interfaces, 2017, 9, 12592-12600.	8.0	2
13	Optical simulation and preparation of novel Mo/ZrSiN/ZrSiON/SiO 2 solar selective absorbing coating. Solar Energy Materials and Solar Cells, 2017, 167, 178-183.	6.2	59
14	Correlation between Uniaxial Negative Thermal Expansion and Negative Linear Compressibility in Ag₃[Co(CN)₆]. Journal of Physical Chemistry C, 2017, 121, 333-341.	3.1	28
15	Tunable negative thermal expansion and structural evolution in antiperovskite Mn₃Ga_{1â^'x}Ge_xN (0 â‰¤ x â‰¤ 1.0). Journal of the American Ceramic Society, 2017, 100, 5739-5745.	3.8	19
16	Uniaxial Negative Thermal Expansion, Negative Linear Compressibility, and Negative Poissonâ€™s Ratio Induced by Specific Topology in Zn[Au(CN)₂]₂. Inorganic Chemistry, 2017, 56, 15101-15109.	4.0	25
17	The investigation of thermal stability of Al/NbMoN/NbMoON/SiO2 solar selective absorbing coating. Solar Energy Materials and Solar Cells, 2017, 171, 253-257.	6.2	52
18	Baromagnetic Effect in Antiperovskite Mn₃Ga_{0.95}N_{0.94} by Neutron Powder Diffraction Analysis. Advanced Materials, 2016, 28, 3761-3767.	21.0	59

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19	Near-zero temperature coefficient of resistivity associated with magnetic ordering in antiperovskite Mn3+xNi1â^'xN. Applied Physics Letters, 2016, 108, .	3.3	18
20	Competition between ferromagnetic and antiferromagnetic interactions by Cr doping at Mn sites in antiperovskite Mn 3â^'x Cr x ZnN (0â‰ x â‰0.5) compounds. Physica B: Condensed Matter, 2016, 488, 19-23.	2.7	3
21	Effects of Cr-doping on the electronic transport properties in antiperovskite nitrides Mn3â^'xCrxZnN (0â‰xâ‰0.5). Physica B: Condensed Matter, 2016, 491, 59-64.	2.7	1
22	Large negative thermal expansion provided by metal-organic framework MOF-5: A first-principles study. Materials Chemistry and Physics, 2016, 175, 138-145.	4.0	28
23	Firstâ€Principles Study of Sc_{1â^'x}Ti_xF₃ (xÂâ‰Â0.375): Negative Thermal Expansion, Phase Transition, and Compressibility. Journal of the American Ceramic Society, 2015, 98, 2852-2857.	3.8	16
24	The evolution of magnetic transitions, negative thermal expansion and unusual electronic transport properties in Mn3AgxMnyN. Solid State Communications, 2015, 222, 37-41.	1.9	10
25	Invar-like Behavior of Antiperovskite Mn_{3+x}Ni_{1â€“x}N Compounds. Chemistry of Materials, 2015, 27, 2495-2501.	6.7	77
26	Metal fluorides, a new family of negative thermal expansion materials. Journal of Materiomics, 2015, 1, 106-112.	5.7	14
27	Frustrated Triangular Magnetic Structures of Mn₃ZnN: Applications in Thermal Expansion. Journal of Physical Chemistry C, 2015, 119, 24983-24990.	3.1	23
28	Theoretical study of hydration in Y2Mo3O12: Effects on structure and negative thermal expansion. AIP Advances, 2015, 5, .	1.3	17
29	Negative thermal expansion in TiF3 from the first-principles prediction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2906-2909.	2.1	14
30	First-principles investigation of negative thermal expansion in II-VI semiconductors. Materials Chemistry and Physics, 2014, 148, 214-222.	4.0	23
31	First-principles study of tetragonal PbTiO3: Phonon and thermal expansion. Materials Research Bulletin, 2014, 49, 509-513.	5.2	28
32	First-principles study of negative thermal expansion in zinc oxide. Journal of Applied Physics, 2013, 114, .	2.5	38
33	Negative thermal expansion correlated with polyhedral movements and distortions in orthorhombic Y2Mo3O12. Materials Research Bulletin, 2013, 48, 2724-2729.	5.2	60
34	Theoretical study of negative thermal expansion mechanism of ZnF2. Materials Research Bulletin, 2012, 47, 1113-1118.	5.2	39
35	Biaxial negative thermal expansion in Zn[N(CN)₂]₂. Inorganic Chemistry Frontiers, 0, , .	6.0	0