

Hai L Feng

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High-Temperature Ferrimagnetism Driven by Lattice Distortion in Double Perovskite $\text{Ca}_{2-x}\text{FeOsO}_6$. Journal of the American Chemical Society, 2014, 136, 3326-3329.	13.7	122
2	Effect of TiO_2 doping on microstructural and electrical properties of $\text{ZnO}/\text{Pr}_6\text{O}_{11}$ -based varistor ceramics. Journal of Alloys and Compounds, 2010, 497, 304-307.	5.5	61
3	High-Pressure Synthesis, Crystal Structures, and Magnetic Properties of 5d Double-Perovskite Oxides $\text{Ca}_{2-x}\text{MgOsO}_6$ and $\text{Sr}_{2-x}\text{MgOsO}_6$. Inorganic Chemistry, 2015, 54, 3422-3431.	4.0	61
4	High-Pressure Synthesis of 5d Cubic Perovskite BaOsO_3 at 17 GPa: Ferromagnetic Evolution over 3d to 5d Series. Journal of the American Chemical Society, 2013, 135, 16507-16516.	13.7	58
5	Fragility of ferromagnetic double-exchange interactions and pressure tuning of magnetism in a magnetic insulator with ferromagnetism near 100 K. Physical Review B, 2016, 94, .	3.2	55
6	High-Temperature Ferrimagnetism with Large Coercivity and Exchange Bias in the Partially Ordered $\text{Ba}_{2-x}\text{FeOsO}_6$. Chemistry of Materials, 2017, 29, 886-895.	6.7	35
7	Nematic superconducting state in iron pnictide superconductors. Nature Communications, 2017, 8, 1880.	12.8	33
9	High-Pressure Synthesis of $\text{Lu}_{2-x}\text{NiIrO}_6$ with Ferrimagnetism and Large Coercivity. Inorganic Chemistry, 2019, 58, 397-404.	4.0	28
10	Effect of SnO_2 doping on microstructural and electrical properties of $\text{ZnO}/\text{Pr}_6\text{O}_{11}$ based varistor ceramics. Journal of Alloys and Compounds, 2011, 509, 7175-7180.	5.5	26
11	Direct observation of the depairing current density in single-crystalline $\text{Ba}_{0.5}\text{K}_{0.5}\text{Fe}_2\text{As}_2$ microbridge with nanoscale thickness. Applied Physics Letters, 2013, 103, .	3.3	23
12	High-pressure crystal growth and electromagnetic properties of 5d double-perovskite Ca_3OsO_6 . Journal of Solid State Chemistry, 2013, 201, 186-190.	2.9	21
13	High pressure synthesis, crystal structure, and magnetic properties of the double-perovskite $\text{Sr}_{2-x}\text{FeOsO}_6$. High Pressure Research, 2013, 33, 221-228.	1.2	20
14	High-pressure synthesis, crystal structure and magnetic properties of double perovskite oxide $\text{Ba}_2\text{CuOsO}_6$. Journal of Solid State Chemistry, 2014, 217, 9-15.	2.9	20
15	Magnetic structure determination of CaMnO_3 using neutron and x-ray scattering. Physical Review B, 2012, 86, .	3.2	20
16	Local destruction of superconductivity by non-magnetic impurities in mesoscopic iron-based superconductors. Nature Communications, 2015, 6, 7614.	12.8	19
17	The role of nonmagnetic d0 vs. d10 B-type cations on the magnetic exchange interactions in osmium double perovskites. Journal of Solid State Chemistry, 2016, 243, 119-123.	2.9	19

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19	Superconductivity in Bismuth Oxysulfide $\text{Bi}_4\text{O}_4\text{S}_3$. Journal of the Physical Society of Japan, 2013, 82, 074703.	1.6	18
20	Synthesis, Structure, and Magnetic Properties of a New Double Perovskite $\text{Ca}_2\text{InOsO}_6$. Physics Procedia, 2013, 45, 117-120.	1.2	16
21	Room-temperature ferromagnetism of anti-site-disordered $\text{Ca}_2\text{MnOsO}_6$. Physical Review Materials, 2019, 3, .	2.4	16
22	Magnetic and electronic properties of a topological nodal line semimetal candidate: HoSbTe . Physical Review Materials, 2020, 4, .	2.4	16
23	Synthesis, crystal structures, and magnetic properties of double perovskites SrLaNiOsO_6 and BaLaNiOsO_6 . Solid State Communications, 2016, 243, 49-54.	1.9	15
24	$\text{Mn}_2\text{CoReO}_6$: a robust multisublattice antiferromagnetic perovskite with small A-site cations. Chemical Communications, 2019, 55, 3331-3334.	4.1	15
25	High-Pressure Synthesis of Double Perovskite $\text{Ba}_2\text{NiIrO}_6$: In Search of a Ferromagnetic Insulator. Inorganic Chemistry, 2021, 60, 1241-1247.	4.0	14
26	High-pressure synthesis, crystal structure, and magnetic properties of KSbO_3 -type 5d oxides $\text{K}_{0.84}\text{OsO}_3$ and $\text{Bi}_{2.93}\text{Os}_3\text{O}_{11}$. Science and Technology of Advanced Materials, 2014, 15, 064901.	6.1	12
27	Phase transitions in strontium perovskites. Studies of SrOsO_3 compared to other 4d and 5d perovskites. Journal of Solid State Chemistry, 2016, 237, 27-31.	2.9	12
28	$\text{Ba}_3\text{CuOs}_2\text{O}_9$ and $\text{Ba}_3\text{ZnOs}_2\text{O}_9$, a comparative study. Journal of Solid State Chemistry, 2018, 258, 776-780.	2.9	11
29	Unusual magnetic hysteresis and the weakened transition behavior induced by Sn substitution in Mn_3SbN . Journal of Applied Physics, 2014, 115, 043509.	2.5	10
30	Impurity effects on the normal-state transport properties of $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{O}_7$. Physical Review B, 2014, 90, .	3.2	9
31	Magnetically driven loss of centrosymmetry in metallic $\text{Pb}_{1-x}\text{Sn}_x\text{Fe}_2\text{O}_7$. Physical Review B, 2020, 102, .	3.2	9
32	Study of Polycrystalline Bulk Sr_3OsO_6 Double-Perovskite Insulator: Comparison with 1000 K Ferromagnetic Epitaxial Films. Inorganic Chemistry, 2020, 59, 4049-4057.	4.0	9
33	Structure and magnetism of new A- and B-site ordered double perovskites AlaCuOsO_6 (A = Ba and Sr). Journal of Solid State Chemistry, 2021, 293, 121784.	2.9	9
34	A Polar Magnetic and Insulating Double Corundum Oxide: $\text{Mn}_2\text{MnSbO}_6$ with Ordered Mn(II) and Mn(III) Ions. Chemistry of Materials, 2021, 33, 6522-6529.	6.7	9
35	Antiferromagnetic Order Breaks Inversion Symmetry in a Metallic Double Perovskite, $\text{Pb}_2\text{NiOsO}_6$. Chemistry of Materials, 2021, 33, 4188-4195.	6.7	8
36	Superconductivity of $\hat{\Gamma}$ - $\text{MoCO}_{0.75}$ synthesized at 17 GPa. Solid State Communications, 2014, 177, 33-35.	1.9	7

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37	Magnetically induced metal-insulator transition in $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$. Physical Review B, 2020, 102, .		
38	High-Pressure Synthesis and Ferrimagnetism of Ni_3TeO_6 -Type Mn_2ScMO_6 (M = Nb, Ta). Inorganic Chemistry, 2019, 58, 15953-15961.	4.0	6
39	Coupled magnetic and structural phase transitions in the antiferromagnetic polar metal $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$ under pressure. Physical Review B, 2020, 102, .	3.2	5
40	$\text{Ti}_2\text{Ir}_2\text{O}_7$: A Pauli Paramagnetic Metal, Proximal to a Metal Insulator Transition. Inorganic Chemistry, 2021, 60, 4424-4433.	4.0	5
41	Synthesis, crystal structure, and magnetic properties of $\text{Ba}_3\text{Os}_2\text{O}_9$: A new osmate with $\text{Cs}_3\text{Ti}_2\text{Cl}_9$ -type structure. Journal of Solid State Chemistry, 2017, 249, 15-20.	2.9	4
42	High-pressure synthesis, crystal structure, and magnetic properties of hexagonal $\text{Ba}_3\text{CuOs}_2\text{O}_9$. Journal of Solid State Chemistry, 2019, 272, 182-188.	2.9	4
43	Single-crystal growth and magnetic anisotropy in PrFe_2Ga_8 . Journal of Physics Condensed Matter, 2022, 34, 165601.	1.8	3
44	Crystal growth and magnetic properties of $\text{LaMn}_{0.9}\text{Nd}_{0.1}\text{O}_8$ and $\text{NdMn}_{0.8}\text{Pr}_{0.2}\text{O}_8$. Physical Review B, 2023, 107, 105105.	3.2	3
45	Proximal ferromagnetic high-weak ferromagnetism manipulated by atomic rearrangement in $\text{Ba}_3\text{Os}_2\text{O}_9$. Physical Review Materials, 2023, 1, .	2.4	2
46	Emergence of 1/3 magnetization plateau and successive magnetic transitions in Zintl phase Eu_3O_{12} . Physical Review Research, 2021, 3, .	3.6	2
47	$\text{ZnO-Pr}_{0.06}\text{O}_{11}$ -Doped $\text{ZnO-Pr}_{0.06}\text{O}_{11}$ -Based Varistor Ceramics. Key Engineering Materials, 0, 512-515, 1277-1280.	0.4	1
48	Doping Effect of Alkali Ions on the Microstructural and Electrical Properties of $\text{ZnO-Pr}_{0.06}\text{O}_{11}$ -Based Varistor Ceramics. Key Engineering Materials, 0, 544, 213-218.	0.4	1
49	Effect of $\text{Pr}_{0.06}\text{O}_{11}$ Doping on the Microstructural and Electrical Properties of $\text{ZnO-Pr}_{0.06}\text{O}_{11}\text{-Co}_{0.3}\text{O}_4\text{-Cr}_2\text{O}_3\text{-SnO}_2$ Varistors. Key Engineering Materials, 2014, 633, 308-312.	1.4	1
50	Optimization of Sintering Temperature and Doping Level of Cr_2O_3 in $\text{ZnO-Pr}_{0.06}\text{O}_{11}$ -Based Varistor Ceramics. Advanced Materials Research, 2010, 177, 382-385.	0.3	0
51	Crystal structures and magnetic properties of dimorphic Li_3OsO_4 . Solid State Sciences, 2019, 97, 106009.	3.2	0
52	Ferromagnetic and ferroelectric $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ insulator $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$. Physical Review Materials, 2021, 5, .	2.4	0