Hai L Feng

List of Publications by Year
in descending order

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52	934	430874	477307
papers	citations	18	29
		h-index	g-index

56	56	56	1110
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-crystal growth and magnetic anisotropy in PrFe₂Ga₈. Journal of Physics Condensed Matter, 2022, 34, 165601.	1.8	3
2	Crystal growth and magnetic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LaMn</mml:mi><mml:mrow><mml:mn>0.9</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>NdMn</mml:mi><mml:mrow><mml:mn>0.8</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2022, 105, .	3.2	3
3	Structure and magnetism of new A- and B-site ordered double perovskites ALaCuOsO6 (A = Ba and Sr). Journal of Solid State Chemistry, 2021, 293, 121784.	2.9	9
4	Tl₂Ir₂O₇: A Pauli Paramagnetic Metal, Proximal to a Metal Insulator Transition. Inorganic Chemistry, 2021, 60, 4424-4433.	4.0	5
5	Antiferromagnetic Order Breaks Inversion Symmetry in a Metallic Double Perovskite, Pb₂NiOsO₆. Chemistry of Materials, 2021, 33, 4188-4195.	6.7	8
6	A Polar Magnetic and Insulating Double Corundum Oxide: Mn₂MnSbO₆ with Ordered Mn(II) and Mn(III) Ions. Chemistry of Materials, 2021, 33, 6522-6529.	6.7	9
7	High-Pressure Synthesis of Double Perovskite Ba₂NiIrO₆: In Search of a Ferromagnetic Insulator. Inorganic Chemistry, 2021, 60, 1241-1247.	4.0	14
8	Ferromagnetic and ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>5</mml:mn><mml:msup><mml:mi>d</mml:mi><mml:mn> insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>5</mml:mn></ Physical Review Materials, 2021, 5, .	2.4	0
9	Emergence of 1/3 magnetization plateau and successive magnetic transitions in Zintl phase <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mn>3</mml:mn></ Physical Review Research, 2021, 3, .	3.3	2
10	Magnetically driven loss of centrosymmetry in metallic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Pb</mml:mi><mml:mn>2</mml:mn></ Physical Review B, 2020, 102, .	3.2	9
11	Coupled magnetic and structural phase transitions in the antiferromagnetic polar metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Pb</mml:mi><mml:mn>2</mml:mn></ mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math> under pressure. Physical Review B, 2020, 102, .	3.2	5
12	Magnetically induced metal-insulator transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Pb</mml:mi><mml:mn>2</mml:mn></ Physical Review B, 2020, 102, .	3.2	7
13	Study of Polycrystalline Bulk Sr3OsO6 Double-Perovskite Insulator: Comparison with 1000 K Ferromagnetic Epitaxial Films. Inorganic Chemistry, 2020, 59, 4049-4057.	4.0	9
14	Magnetic and electronic properties of a topological nodal line semimetal candidate: HoSbTe. Physical Review Materials, 2020, 4, .	2.4	16
15	From antiferromagnetism to high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml: weak ferromagnetism manipulated by atomic rearrangement in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Ba</mml:mi></mml:mrow><mml:mn>3</ mathvariant="normal">O</mml:mi></mml:mrow><mml:. Physical Review Materials, 2020, 4, .	2.4	2
16	High-Pressure Synthesis and Ferrimagnetism of Ni₃TeO₆-Type Mn₂ScMO₆ (M = Nb, Ta). Inorganic Chemistry, 2019, 58, 15953-15961.	4.0	6
17	Crystal structures and magnetic properties of dimorphic Li3OsO4. Solid State Sciences, 2019, 97, 106009.	3.2	0
18	High-pressure synthesis, crystal structure, and magnetic properties of hexagonal Ba3CuOs2O9. Journal of Solid State Chemistry, 2019, 272, 182-188.	2.9	4

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19	Mn₂CoReO₆: a robust multisublattice antiferromagnetic perovskite with small A-site cations. Chemical Communications, 2019, 55, 3331-3334.	4.1	15
20	High-Pressure Synthesis of Lu₂NiIrO₆ with Ferrimagnetism and Large Coercivity. Inorganic Chemistry, 2019, 58, 397-404.	4.0	28
21	Room-temperature ferrimagnetism of anti-site disordered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>MnOs</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2019, 3, .	2.4	16
22	Ba3CuOs2O9 and Ba3ZnOs2O9, a comparative study. Journal of Solid State Chemistry, 2018, 258, 776-780.	2.9	11
23	Canted ferrimagnetism and giant coercivity in the nonstoichiometric double perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi	3.2	20
24	High-Temperature Ferrimagnetism with Large Coercivity and Exchange Bias in the Partially Ordered 3d/5d Hexagonal Perovskite Ba₂Fe_{1.12}Os_{0.88}O₆. Chemistry of Materials, 2017, 29, 886-895.	6.7	35
25	Synthesis, crystal structure, and magnetic properties of Ba 3 Os 2 O 9 : A new osmate with Cs 3 Tl 2 Cl 9 -type structure. Journal of Solid State Chemistry, 2017, 249, 15-20.	2.9	4
26	Nematic superconducting state in iron pnictide superconductors. Nature Communications, 2017, 8, 1880.	12.8	33
27	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>NiOs</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math> : A Dirac-Mott insulator with ferromagnetism near 100 K. Physical Review B, 2016, 94, .	3.2	55
28	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
29	Synthesis, crystal structures, and magnetic properties of double perovskites SrLaNiOsO6 and BaLaNiOsO6. Solid State Communications, 2016, 243, 49-54.	1.9	15
30	Phase transitions in strontium perovskites. Studies of SrOsO3 compared to other 4d and 5d perovksites. Journal of Solid State Chemistry, 2016, 237, 27-31.	2.9	12
31	Fragility of ferromagnetic double exchange interactions and pressure tuning of magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>3</mml:mn><mml:mi>d</mml:mi><mml:mtext>â”</mml:mtext> perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">FeOsO</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical	3.2	35
32	High-Pressure Synthesis, Crystal Structures, and Magnetic Properties of 5d Double-Perovskite Oxides Ca₂MgOsO₆ and Sr₂MgOsO₆. Inorganic Chemistry, 2015, 54, 3422-3431.	4.0	61
33	Local destruction of superconductivity by non-magnetic impurities in mesoscopic iron-based superconductors. Nature Communications, 2015, 6, 7614.	12.8	19
34	Unusual magnetic hysteresis and the weakened transition behavior induced by Sn substitution in Mn3SbN. Journal of Applied Physics, 2014, 115, 043509.	2.5	10
35	Effect of Pr₆O₁₁ Doping on the Microstructural and Electrical Properties of ZnO-Pr₆O₁₁-Co₃O₄-Cr₂O₃-SnO₂ Varistors. Key Engineering Materials, 2014, 633, 308-312.	0.4	1
36	High-pressure synthesis, crystal structure, and magnetic properties of KSbO3-type 5doxides K0.84OsO3and Bi2.93Os3O11. Science and Technology of Advanced Materials, 2014, 15, 064901.	6.1	12

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37	Superconductivity of Î´-MoC0.75 synthesized at 17GPa. Solid State Communications, 2014, 177, 33-35.	1.9	7
38	Impurity effects on the normal-state transport properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ba</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi>Fe</mml:mi> Physical Review B, 2014, 90, .	3.7	9
39	High-Temperature Ferrimagnetism Driven by Lattice Distortion in Double Perovskite Ca₂FeOsO₆. Journal of the American Chemical Society, 2014, 136, 3326-3329.	13.7	122
40	High-pressure synthesis, crystal structure and magnetic properties of double perovskite oxide Ba2CuOsO6. Journal of Solid State Chemistry, 2014, 217, 9-15.	2.9	20
41	Direct observation of the depairing current density in single-crystalline Ba0.5K0.5Fe2As2 microbridge with nanoscale thickness. Applied Physics Letters, 2013, 103, .	3.3	23
42	High-Pressure Synthesis of 5d Cubic Perovskite BaOsO₃ at 17 GPa: Ferromagnetic Evolution over 3d to 5d Series. Journal of the American Chemical Society, 2013, 135, 16507-16516.	13.7	58
43	Synthesis, Structure, and Magnetic Properties of a New Double Perovskite Ca2InOsO6. Physics Procedia, 2013, 45, 117-120.	1.2	16
44	High-pressure crystal growth and electromagnetic properties of 5d double-perovskite Ca3OsO6. Journal of Solid State Chemistry, 2013, 201, 186-190.	2.9	21
45	High pressure synthesis, crystal structure, and magnetic properties of the double-perovskite Sr₂FeOsO₆. High Pressure Research, 2013, 33, 221-228.	1.2	20
46	Superconductivity in Bismuth Oxysulfide Bi₄O₄S₃. Journal of the Physical Society of Japan, 2013, 82, 074703.	1.6	18
47	Magnetic structure determination of Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>LiOsO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>using neutron and x-ray scattering. Physical Review B, 2012, 86, .	3.2	19
48	Effect of SnO2 doping on microstructural and electrical properties of ZnOâ€“Pr6O11 based varistor ceramics. Journal of Alloys and Compounds, 2011, 509, 7175-7180.	5.5	26
49	Optimization of Sintering Temperature and Doping Level of Cr₂O₃ in ZnO-Pr₆O₁₁-Based Varistor Ceramics. Advanced Materials Research, 2010, 177, 382-385.	0.3	0
50	Effect of TiO2 doping on microstructural and electrical properties of ZnOâ€“Pr6O11-based varistor ceramics. Journal of Alloys and Compounds, 2010, 497, 304-307.	5.5	61
51	B₂O₃-Doped ZnO-Pr₆O₁₁ Based Varistor Ceramics. Key Engineering Materials, 0, 512-515, 1277-1280.	0.4	1
52	Doping Effect of Alkali Ions on the Microstructural and Electrical Properties of ZnO-Pr₆O₁₁-Based Varistor Ceramics. Key Engineering Materials, 0, 544, 213-218.	0.4	1