

Jianshi Zhou

List of Publications by Year in descending order

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94381

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#	ARTICLE	IF	CITATIONS
1	Role of Grain Size on Magnon and Phonon Thermal Transport in the Spin Ladder Compound $\text{Ca}_9\text{La}_5\text{Cu}_{24}\text{O}_{41}$. ACS Applied Electronic Materials, 2022, 4, 787-794.	2.0	4
2	Temperature-Pressure Phase Diagram and Possible Pressure-Driven New Electronic Phase in the Polar Metal LiOsO_3 . ECS Journal of Solid State Science and Technology, 2022, 11, 023008.	0.9	2
3	Seebeck Coefficient in a Cuprate Superconductor: Particle-Hole Asymmetry in the Strange Metal Phase and Fermi Surface Transformation in the Pseudogap Phase. Physical Review X, 2022, 12, .	2.8	11
4	Fermi surface transformation at the pseudogap critical point of a cuprate superconductor. Nature Physics, 2022, 18, 558-564.	6.5	20
5	Lattice and magnetic dynamics in the YVO_3 Mott insulator studied by neutron scattering and first-principles calculations. Physical Review B, 2022, 105, .	1.1	1
6	Evidence for spin swapping in an antiferromagnet. Nature Physics, 2022, 18, 800-805.	6.5	12
7	Charge Disproportionation and Complex Magnetism in a PbMnO_3 Perovskite Synthesized under High Pressure. Chemistry of Materials, 2021, 33, 92-101.	3.2	4
8	Unraveling the Orbital Physics in a Canonical Orbital System KCuF_3 . Physical Review Letters, 2021, 126, 106401.	2.9	6
9	Effect of pressure on the pseudogap and charge density wave phases of the cuprate Nd-LSCO probed by thermopower measurements. Physical Review Research, 2021, 3, .	1.3	3
10	Thermopower across the phase diagram of the cuprate $\text{La}_{1.6}\text{Nd}_{0.4}\text{Sr}_x\text{CuO}_4$: Signatures of the pseudogap and charge density wave phases. Physical Review B, 2021, 103, .	1.1	21
11	Linear-in temperature resistivity from an isotropic Planckian scattering rate. Nature, 2021, 595, 667-672.	13.7	55
12	Effects of Impurities on the Thermal and Electrical Transport Properties of Cubic Boron Arsenide. Chemistry of Materials, 2021, 33, 6974-6982.	3.2	19
13	Strongly correlated electrons in the ferroelectric metal LiOsO_3 . Physical Review B, 2021, 104, .	1.1	2
14	Dimer rattling mode induced low thermal conductivity in an excellent acoustic conductor. Nature Communications, 2020, 11, 5197.	5.8	27
15	Chiral phonons in the pseudogap phase of cuprates. Nature Physics, 2020, 16, 1108-1111.	6.5	95
16	Emergence of a competing stripe phase near the Mott transition in Ti-doped bilayer calcium ruthenates. Physical Review B, 2020, 101, .	1.1	6
17	Synthesis and Magnon Thermal Transport Properties of Spin Ladder $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$ Microstructures. Advanced Functional Materials, 2020, 30, 2001637.	7.8	7
18	Room-temperature polar metal stabilized under high pressure. Physical Review B, 2020, 101, .	1.1	8

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19	Prediction and Synthesis of Dysprosium Hydride Phases at High Pressure. <i>Inorganic Chemistry</i> , 2020, 59, 5303-5312.	1.9	6
20	Pressure-induced phase transitions and superconductivity in a quasi-1-dimensional topological crystalline insulator $\text{I}\pm\text{Bi}_4\text{Br}_4$. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17696-17700.	3.3	36
21	Exceptional oxygen evolution reactivities on CaCoO_3 and SrCoO_3 . <i>Science Advances</i> , 2019, 5, eaav6262.	4.7	132
22	Giant thermal Hall conductivity in the pseudogap phase of cuprate superconductors. <i>Nature</i> , 2019, 571, 376-380.	13.7	105
23	Thermal Expansion Coefficient and Lattice Anharmonicity of Cubic Boron Arsenide. <i>Physical Review Applied</i> , 2019, 11, .	1.5	23
24	Synthesis of clathrate cerium superhydride CeH_9 at 80-100 GPa with atomic hydrogen sublattice. <i>Nature Communications</i> , 2019, 10, 4453.	5.8	117
25	Coupling of Spinons with Defects and Phonons in the Spin Chain Compound Ca_2Mn_9 . <i>Physical Review Letters</i> , 2019, 122, 185901.	2.9	9
26	Thermodynamic signatures of quantum criticality in cuprate superconductors. <i>Nature</i> , 2019, 567, 218-222.	13.7	120
27	Lattice distortion in the spin-orbital entangled state in VO_3 perovskites. <i>Suppression of the antiferromagnetic metallic state in the pressurized MnBi_2Te_4 single crystal.</i> <i>Physical Review Materials</i> , 2019, 3, .	1.1	8
28	Valence State of Pb in Transition Metal Perovskites PbTMO_3 (TM = Ti, Ni) Determined From X-Ray Absorption Near-Edge Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1800014.	0.9	45
29	New Mechanism for Ferroelectricity in the Perovskite $\text{Ca}_2\text{Mn}_2\text{Ti}_2\text{O}_6$ Synthesized by Spark Plasma Sintering. <i>Journal of the American Chemical Society</i> , 2018, 140, 2214-2220.	0.7	7
30	Wiedemann-Franz Law and Abrupt Change in Conductivity across the Pseudogap Critical Point of a Cuprate Superconductor. <i>Physical Review X</i> , 2018, 8, .	2.8	16
31	Pressure-induced phase transitions and superconductivity in a black phosphorus single crystal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9935-9940.	3.3	47
32	Large positive linear magnetoresistance in the two-dimensional t_2g electron gas at the $\text{EuO}/\text{SrTiO}_3$ interface. <i>Scientific Reports</i> , 2018, 8, 7721.	1.6	40
33	Unusual high thermal conductivity in boron arsenide bulk crystals. <i>Science</i> , 2018, 361, 582-585.	6.0	300
34	Spin freezing into a disordered state in CaFeTiO_6 synthesized under high pressure. <i>Physical Review B</i> , 2018, 98, .	1.1	2
35	Multimillimeter-sized cubic boron arsenide grown by chemical vapor transport via a tellurium tetraiodide transport agent. <i>Applied Physics Letters</i> , 2018, 112, 261901.	1.5	18

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37	High-field phase diagram and phase transitions in hexagonal manganite ErMnO ₃ . Physical Review B, 2018, 97, .	1.1	6
38	High-Pressure Synthesis, Crystal Structure, and Magnetic and Transport Properties of a Six-Layered SrRhO ₃ . Inorganic Chemistry, 2017, 56, 8187-8194.	1.9	5
39	Direct observation of magnon-phonon coupling in yttrium iron garnet. Physical Review B, 2017, 96, .	1.1	61
40	Magnetism out of antisite disorder in the compound J_1J_2 $\text{Ba}_2\text{Mn}_2\text{O}_7$. Physical Review B, 2017, 96, .	1.1	25
41	Effects of grain boundaries and defects on anisotropic magnon transport in textured Sr ₁₄ Cu ₂₄ O ₄₁ . Physical Review B, 2017, 95, .	1.1	10
42	Pseudogap phase of cuprate superconductors confined by Fermi surface topology. Nature Communications, 2017, 8, 2044.	5.8	60
43	Jahn-Teller distortion driven magnetic polarons in magnetite. Nature Communications, 2017, 8, 15929.	5.8	47
44	Fermi-surface transformation across the pseudogap critical point of the cuprate superconductor $\text{La}_{1.6}\text{Cu}_{0.9}\text{O}_{7-x}$. Physical Review B, 2017, 95, .	1.1	78
45	Magnetism and the spin state in cubic perovskite CaCo_3O_7 synthesized under high pressure. Physical Review Materials, 2017, 1, .	0.9	9
46	Insulating Pockets in Metallic LaNiO ₃ . Advanced Electronic Materials, 2016, 2, 1500261.	2.6	23
47	Lattice and magnetic dynamics in perovskite $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physical Review B, 2016, 94, .	1.1	8
48	Magnons and Phonons Optically Driven out of Local Equilibrium in a Magnetic Insulator. Physical Review Letters, 2016, 117, 107202.	2.9	45
49	Contradictory nature of Co doping in ferroelectric BaTiO ₃ . Physical Review B, 2016, 94, .	1.1	8
50	Anomalous bulk modulus in vanadate spinels. Physical Review B, 2016, 94, .	1.1	9
51	Thermal stability of Mg ₂ Si _{0.4} Sn _{0.6} in inert gases and atomic-layer-deposited Al ₂ O ₃ thin film as a protective coating. Journal of Materials Chemistry A, 2016, 4, 17726-17731.	5.2	21
52	Slater Insulator in Iridate Perovskites with Strong Spin-Orbit Coupling. Physical Review Letters, 2016, 117, 176603.	2.9	36
53	Weak coupling of pseudoacoustic phonons and magnon dynamics in the incommensurate spin-ladder compound $\text{Sr}_2\text{Cu}_2\text{O}_7$. Physical Review B, 2016, 94, .	1.1	14
54	Possible Bose-Einstein condensate associated with an orbital degree of freedom in the Mott insulator CaCr_2O_7 . Physical Review B, 2016, 94, .		6

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55	Identification of magnetic order in the Heisenberg pyrochlore antiferromagnets Gd_2O_3 . Physical Review B, 2015, 92, .	1.1	23
56	Electron scattering, charge order, and pseudogap physics in $La_{1.6}Nd_{0.4}Sr_xCuO_4$: An angle-resolved photoemission spectroscopy study. Physical Review B, 2015, 92, .	1.1	56
57	Identification of electronic state in perovskite $CaCrO_3$ by high-pressure studies. Physical Review B, 2015, 92, .	1.1	9
58	Synthesis of monoclinic $IrTe_2$ under high pressure and its physical properties. Physical Review B, 2015, 92, .	1.1	6
59	Charge disproportionation and the pressure-induced insulator-metal transition in cubic perovskite $PbCrO_3$. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1670-1674.	3.3	37
60	Varied roles of Pb in transition-metal $PbMO_3$ perovskites ($M = Ti, V, Cr, Mn, Fe$). Journal of Applied Physics, 2015, 118, 044101.	2.8	28
61	Twisting phonons in complex crystals with quasi-one-dimensional substructures. Nature Communications, 2015, 6, 6723.	5.8	75
62	Enhanced thermoelectric power factor of Re-substituted higher manganese silicides with small islands of MnSi secondary phase. Journal of Materials Chemistry C, 2015, 3, 10500-10508.	2.7	44
63	Approaching the Minimum Thermal Conductivity in Rhenium-Substituted Higher Manganese Silicides. Advanced Energy Materials, 2014, 4, 1400452.	10.2	74
64	Mass enhancement versus Stoner enhancement in strongly correlated metallic perovskites: $LaNiO_3$ and $LaCuO_3$. Physical Review B, 2014, 89, .	4.8	48
65	High-Pressure Synthesis of A -Site Ordered Double Perovskite $CaMnTi_2O_6$ and Ferroelectricity Driven by Coupling of A -Site Ordering and the Second-Order Jahn-Teller Effect. Chemistry of Materials, 2014, 26, 2601-2608.	3.2	70
66	New Routes to Synthesizing an Ordered Perovskite $CaCu_3Fe_2Sb_2O_{12}$ and Its Magnetic Structure by Neutron Powder Diffraction. Inorganic Chemistry, 2014, 53, 4281-4283.	1.9	18
67	Abnormal Elastic and Vibrational Behaviors of Magnetite at High Pressures. Scientific Reports, 2014, 4, 6282.	1.6	27
68	Pressure dependence of the superconducting transition temperature of the filled skutterudite YFe_4P_{12} . Physical Review B, 2013, 88, .	1.1	9
69	High-pressure synthesis of the BaR_3O_3 perovskite: A Pauli paramagnetic metal with a Fermi liquid ground state. Physical Review B, 2013, 88, .	1.1	28
70	Unusual structural evolution in $KCuF_3$ at high temperatures by neutron powder diffraction. Physical Review B, 2013, 87, .	1.1	12
71	Effects of (Al,Ge) double doping on the thermoelectric properties of higher manganese silicides. Journal of Applied Physics, 2013, 114, 173705.	1.1	49
72	Determination of hole distribution in $Sr_{1-x}Ca_xFe_2O_7$. Physical Review B, 2013, 87, .	1.1	22

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73	behavior of the paramagnetic to antiferromagnetic transition in orthorhombic and hexagonal phases of $R\text{MnO}$		

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91	Dynamic Jahn-Teller distortions and thermal conductivity in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ crystals. <i>Physical Review B</i> , 2001, 64, .	1.1	43
92	Pressure dependence of thermoelectric power in $\text{La}_{1-x}\text{Nd}_x\text{CuO}_3$. <i>Physical Review B</i> , 1998, 57, R2017-R2020.	1.1	23
93	Pressure and Isotope Effects in the Manganese-Oxide Perovskites. <i>Materials Research Society Symposia Proceedings</i> , 1997, 494, 335.	0.1	6
94	Pressure-Induced Polaronic to Itinerant Electronic Transition in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ Crystals. <i>Physical Review Letters</i> , 1997, 79, 3234-3237.	2.9	155
95	New forms of phase segregation. <i>Nature</i> , 1997, 386, 229-230.	13.7	153
96	Identification of a new type of electronic state in the magnetoresistive orthomanganites. <i>Nature</i> , 1996, 381, 770-772.	13.7	81
97	Thermoelectric power in single-layer copper oxides. <i>Physical Review B</i> , 1995, 51, 3104-3115.	1.1	84
98	Dynamics of phase transitions in YVO_3 investigated via inelastic neutron scattering and first-principles calculations. <i>Neutron News</i> , 0, , 1-3.	0.1	1