

# Jian Shen

## List of Publications by Year in descending order

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55  
papers

1,396  
citations

430874

18  
h-index

345221

36  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2117  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-temperature superconductivity in monolayer Bi2Sr2CaCu2O8+δ. Nature, 2019, 575, 156-163.	27.8	218
2	Room-Temperature Multiferroic Hexagonal $\text{LuFeO}_3$ Films. Physical Review Letters, 2013, 110, 237601.	7.8	195
3	Giant Magnetoresistance in Organic Spin Valves. Physical Review Letters, 2010, 104, 236602.	7.8	181
4	Chemical ordering suppresses large-scale electronic phase separation in doped manganites. Nature Communications, 2016, 7, 11260.	12.8	64
5	Crystal field splitting and optical bandgap of hexagonal LuFeO3 films. Applied Physics Letters, 2012, 101, .	3.3	51
6	Active control of magnetoresistance of organic spin valves using ferroelectricity. Nature Communications, 2014, 5, 4396.	12.8	51
7	Visualization of a ferromagnetic metallic edge state in manganite strips. Nature Communications, 2015, 6, 6179.	12.8	43
8	Nonreciprocal superconducting NbSe2 antenna. Nature Communications, 2020, 11, 5634.	12.8	43
9	Structural and electronic origin of the magnetic structures in hexagonal $\text{LuFeO}_3$ . Physical Review B, 2014, 90, .	3.2	38
10	Direct experimental evidence of physical origin of electronic phase separation in manganites. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7090-7094.	7.1	35
11	Electrophoretic-like Gating Used To Control Metal-Insulator Transitions in Electronically Phase Separated Manganite Wires. Nano Letters, 2013, 13, 3749-3754.	9.1	31
12	Achieving large and nonvolatile tunable magnetoresistance in organic spin valves using electronic phase separated manganites. Nature Communications, 2019, 10, 3877.	12.8	28
13	Growth diagram and magnetic properties of hexagonal $\text{LuFeO}_3$ thin films. Physical Review B, 2012, 85, .	3.2	25
14	Unexpected Intermediate State Photoinduced in the Metal-Insulator Transition of Submicrometer Phase-Separated Manganites. Physical Review Letters, 2018, 120, 267202.	7.8	22
15	Observation of two superconducting domes under pressure in tetragonal FeS. Npj Quantum Materials, 2017, 2, .	5.2	21
16	Growth diagram of La0.7Sr0.3MnO3 thin films using pulsed laser deposition. Journal of Applied Physics, 2013, 113, .	2.5	20
17	Emergent phenomena in manganites under spatial confinement. Chinese Physics B, 2013, 22, 017501.	1.4	19
18	Tuning the interfacial spin-orbit coupling with ferroelectricity. Nature Communications, 2020, 11, 2627.	12.8	19

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19	Emerging single-phase state in small manganite nanodisks. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9228-9231.	7.1	18
20	Direct observation of current-induced conductive path in colossal-electroresistance manganite thin films. Physical Review B, 2016, 93, .	3.2	18
21	Intrinsic ferromagnetism and quantum transport transition in individual Fe-doped Bi <sub>2</sub> Se <sub>3</sub> topological insulator nanowires. Nanoscale, 2017, 9, 12372-12378.	5.6	18
22	Manipulating electronic phase separation in strongly correlated oxides with an ordered array of antidots. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9558-9562.	7.1	15
23	Pressure-induced large enhancement of Néel temperature and electric polarization in the hexagonal multiferroic $\text{Lu}_2\text{V}_2\text{O}_7$ . Evidence for pressure-induced node-pair annihilation in $\text{Lu}_2\text{V}_2\text{O}_7$ . Physical Review Letters, 2019, 122, 127401.	3.2	15
24	Pressure-induced large enhancement of Néel temperature and electric polarization in the hexagonal multiferroic $\text{Lu}_2\text{V}_2\text{O}_7$ . Evidence for pressure-induced node-pair annihilation in $\text{Lu}_2\text{V}_2\text{O}_7$ . Physical Review Letters, 2019, 122, 127401.	3.2	14
25	Charge-Lattice Coupling in Hole-Doped $\text{LuFe}_2\text{O}_4$ : The Origin of Second-Order Modulation. Physical Review Letters, 2019, 122, 126401.	7.8	13
26	Effect of Oxygen Interstitial Ordering on Multiple Order Parameters in Rare Earth Ferrite. Physical Review Letters, 2019, 123, 247601.	7.8	13
27	Pressure-induced Lifshitz transition in the type II Dirac semimetal PtTe <sub>2</sub> . Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	13
28	Thickness-driven first-order phase transitions in manganite ultrathin films. Physical Review B, 2019, 99, .	3.2	12
29	Nonvolatile Multilevel States in Multiferroic Tunnel Junctions. Physical Review Applied, 2019, 12, .	3.8	11
30	Observing a previously hidden structural-phase transition onset through heteroepitaxial cap response. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4141-4146.	7.1	11
31	In Situ Observations and Tuning of Physical and Chemical Phenomena on the Surfaces of Strongly Correlated Oxides. Advanced Functional Materials, 2013, 23, 2477-2489.	14.9	10
32	Neuromorphic computing: Challenges from quantum materials to emergent connectivity. Applied Physics Letters, 2022, 120, .	3.3	9
33	Unusual giant anisotropic magnetoresistance in manganite strips. Applied Physics Letters, 2014, 104, .	3.3	8
34	Recent advances in tunable spin-orbit coupling using ferroelectricity. APL Materials, 2021, 9, .	5.1	8
35	Influence of the dissipative topological edge state on quantized transport in $\text{MnBi}_2\text{Te}_4$ . Physical Review B, 2022, 105, .	3.3	8
36	Large Tunability of Physical Properties of Manganite Thin Films by Epitaxial Strain. Chinese Physics Letters, 2015, 32, 087504.	3.3	7

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37	A large enhancement of magnetocaloric effect by chemical ordering in manganites. Journal of Materials Chemistry C, 2018, 6, 1224-1228.	5.5	7
38	Tuning 2D magnetism in Fe <sub>3</sub> +XGeTe <sub>2</sub> films by element doping. National Science Review, 2022, 9, .	9.5	7
39	A strain-induced new phase diagram and unusually high Curie temperature in manganites. Journal of Materials Chemistry C, 2017, 5, 7813-7819.	5.5	6
40	Reversibility of magnetic field driven transition from electronic phase separation state to single-phase state in manganites: A microscopic view. Physical Review B, 2017, 96, .	3.2	6
41	Nonmonotonic crossover in electronic phase separated manganite superlattices driven by the superlattice period. Physical Review B, 2020, 102, .	3.2	6
42	Enhanced magnetocaloric effect in manganite nanodisks. Physical Review Materials, 2019, 3, .	2.4	6
43	An Electricâ€Fieldâ€Controlled Highâ€Speed Coexisting Multibit Memory and Boolean Logic Operations in Manganite Nanowire via Local Gating. Advanced Electronic Materials, 2019, 5, 1900020.	5.1	5
44	Angular dependent magnetoresistance in organic spin valves. Results in Physics, 2021, 22, 103963.	4.1	5
45	Pulsed laser deposition of large-sized superlattice films with high uniformity. Review of Scientific Instruments, 2021, 92, 113906.	1.3	4
46	Critical fluctuations upon photoinduced phase transition in manganite strips. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	3
47	Cryogen free spin polarized scanning tunneling microscopy and magnetic exchange force microscopy with extremely low noise. Review of Scientific Instruments, 2022, 93, .	1.3	3
48	Controllable magnetization and resistivity jumps of manganite thin films on BaTiO <sub>3</sub> substrate. AIP Advances, 2015, 5, 117135.	1.3	2
49	Optical control of magnetism in complex oxides: A new frontier. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	2
50	Spatial confinement tuning of quenched disorder effects and enhanced magnetoresistance in manganite nanowires. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	2
51	Implementation of artificial neurons with tunable width via magnetic anisotropy. Applied Physics Letters, 2021, 119, 204101.	3.3	2
52	Memory Devices: An Electricâ€Fieldâ€Controlled Highâ€Speed Coexisting Multibit Memory and Boolean Logic Operations in Manganite Nanowire via Local Gating (Adv. Electron. Mater. 6/2019). Advanced Electronic Materials, 2019, 5, 1970029.	5.1	1
53	Emerging transport behavior in manganites wires. , 2008, , .		0
54	Tailoring interacting magnetic nanodots via dimensionality variation of mediating electrons. Frontiers of Physics in China, 2010, 5, 393-404.	1.0	0

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55	Interface Engineering for Spin Injection, Detection and Manipulation in Alq3-Based Organic Spin Valves. Materials and Energy, 2018, , 63-107.	0.1	0