

Jian Shen

List of Publications by Year in descending order

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55
papers

1,396
citations

430874

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all docs

57
docs citations

57
times ranked

2117
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning 2D magnetism in Fe ₃ XGeTe ₂ films by element doping. National Science Review, 2022, 9, .	9.5	7
2	Neuromorphic computing: Challenges from quantum materials to emergent connectivity. Applied Physics Letters, 2022, 120, .	3.3	9
3	Influence of the dissipative topological edge state on quantized transport in MnBi . Physical Review B, 2022, 105, .	3.2	1
4	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
5	Angular dependent magnetoresistance in organic spin valves. Results in Physics, 2021, 22, 103963.	4.1	5
6	Recent advances in tunable spin-orbit coupling using ferroelectricity. APL Materials, 2021, 9, .	5.1	8
7	Pulsed laser deposition of large-sized superlattice films with high uniformity. Review of Scientific Instruments, 2021, 92, 113906.	1.3	4
8	Implementation of artificial neurons with tunable width via magnetic anisotropy. Applied Physics Letters, 2021, 119, 204101.	3.3	2
9	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
10	Nonmonotonic crossover in electronic phase separated manganite superlattices driven by the superlattice period. Physical Review B, 2020, 102, .	3.2	6
11	Nonreciprocal superconducting NbSe ₂ antenna. Nature Communications, 2020, 11, 5634.	12.8	43
12	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
13	Tuning the interfacial spin-orbit coupling with ferroelectricity. Nature Communications, 2020, 11, 2627.	12.8	19
14	Optical control of magnetism in complex oxides: A new frontier. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	2
15	High-temperature superconductivity in monolayer Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Nature, 2019, 575, 156-163.	27.8	218
16	Nonvolatile Multilevel States in Multiferroic Tunnel Junctions. Physical Review Applied, 2019, 12, .	3.8	11
17	Achieving large and nonvolatile tunable magnetoresistance in organic spin valves using electronic phase separated manganites. Nature Communications, 2019, 10, 3877.	12.8	28
18	Memory Devices: An Electric-Field-Controlled High-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

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19	Thickness-driven first-order phase transitions in manganite ultrathin films. <i>Physical Review B</i> , 2019, 99, .	3.2	12
20	Charge-Lattice Coupling in Hole-Doped LuFe_2O_4 : The Origin of Second-Order Modulation. <i>Physical Review Letters</i> , 2019, 122, 126401.	7.8	13
21	An Electric-Field-Controlled High-Speed Coexisting Multibit Memory and Boolean Logic Operations in Manganite Nanowire via Local Gating. <i>Advanced Electronic Materials</i> , 2019, 5, 1900020.	5.1	5
22	Observing a previously hidden structural-phase transition onset through heteroepitaxial cap response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4141-4146.	7.1	11
23	Pressure-induced large enhancement of Néel temperature and electric polarization in the hexagonal multiferroic $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$. <i>Physical Review Letters</i> , 2019, 122, 127201.	3.2	15
24	Effect of Oxygen Interstitial Ordering on Multiple Order Parameters in Rare Earth Ferrite. <i>Physical Review Letters</i> , 2019, 123, 247601.	7.8	13
25	Pressure-induced Lifshitz transition in the type II Dirac semimetal PtTe_2 . <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	13
26	Enhanced magnetocaloric effect in manganite nanodisks. <i>Physical Review Materials</i> , 2019, 3, .	2.4	6
27	Interface Engineering for Spin Injection, Detection and Manipulation in Alq_3 -Based Organic Spin Valves. <i>Materials and Energy</i> , 2018, , 63-107.	0.1	0
28	A large enhancement of magnetocaloric effect by chemical ordering in manganites. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1224-1228.	5.5	7
29	Unexpected Intermediate State Photoinduced in the Metal-Insulator Transition of Submicrometer Phase-Separated Manganites. <i>Physical Review Letters</i> , 2018, 120, 267202.	7.8	22
30	Critical fluctuations upon photoinduced phase transition in manganite strips. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	3
31	Intrinsic ferromagnetism and quantum transport transition in individual Fe-doped Bi_2Se_3 topological insulator nanowires. <i>Nanoscale</i> , 2017, 9, 12372-12378.	5.6	18
32	Evidence for pressure-induced node-pair annihilation in $\text{Ca}_{1-x}\text{Sr}_x\text{MnO}_3$. <i>Physical Review Letters</i> , 2017, 118, 127201.	3.2	14
33	Physi Observation of two superconducting domes under pressure in tetragonal FeS . <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	21
34	A strain-induced new phase diagram and unusually high Curie temperature in manganites. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7813-7819.	5.5	6
35	Reversibility of magnetic field driven transition from electronic phase separation state to single-phase state in manganites: A microscopic view. <i>Physical Review B</i> , 2017, 96, .	3.2	6
36	Emerging single-phase state in small manganite nanodisks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9228-9231.	7.1	18

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37	Direct observation of current-induced conductive path in colossal-electroresistance manganite thin films. <i>Physical Review B</i> , 2016, 93, .	3.2	18
38	Chemical ordering suppresses large-scale electronic phase separation in doped manganites. <i>Nature Communications</i> , 2016, 7, 11260.	12.8	64
39	Controllable magnetization and resistivity jumps of manganite thin films on BaTiO ₃ substrate. <i>AIP Advances</i> , 2015, 5, 117135.	1.3	2
40	Visualization of a ferromagnetic metallic edge state in manganite strips. <i>Nature Communications</i> , 2015, 6, 6179.	12.8	43
41	Manipulating electronic phase separation in strongly correlated oxides with an ordered array of antidots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9558-9562.	7.1	15
42	Large Tunability of Physical Properties of Manganite Thin Films by Epitaxial Strain. <i>Chinese Physics Letters</i> , 2015, 32, 087504.	3.3	7
43	Unusual giant anisotropic magnetoresistance in manganite strips. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	8
44	Active control of magnetoresistance of organic spin valves using ferroelectricity. <i>Nature Communications</i> , 2014, 5, 4396.	12.8	51
45	Structural and electronic origin of the magnetic structures in hexagonal LuFeO_3 . <i>Physical Review B</i> , 2014, 90, .	3.2	38
46	Room-Temperature Multiferroic Hexagonal LuFeO_3 Films. <i>Physical Review Letters</i> , 2013, 110, 237601.	7.8	195
47	In Situ Observations and Tuning of Physical and Chemical Phenomena on the Surfaces of Strongly Correlated Oxides. <i>Advanced Functional Materials</i> , 2013, 23, 2477-2489.	14.9	10
48	Emergent phenomena in manganites under spatial confinement. <i>Chinese Physics B</i> , 2013, 22, 017501.	1.4	19
49	Electrophoretic-like Gating Used To Control Metal-Insulator Transitions in Electronically Phase Separated Manganite Wires. <i>Nano Letters</i> , 2013, 13, 3749-3754.	9.1	31
50	Growth diagram of La _{0.7} Sr _{0.3} MnO ₃ thin films using pulsed laser deposition. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	20
51	Crystal field splitting and optical bandgap of hexagonal LuFeO ₃ films. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	51
52	Growth diagram and magnetic properties of hexagonal LuFeO ₂ O ₄ thin films. <i>Physical Review B</i> , 2012, 85, .	3.2	25
53	Tailoring interacting magnetic nanodots via dimensionality variation of mediating electrons. <i>Frontiers of Physics in China</i> , 2010, 5, 393-404.	1.0	0
54	Giant Magnetoresistance in Organic Spin Valves. <i>Physical Review Letters</i> , 2010, 104, 236602.	7.8	181

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55	Emerging transport behavior in manganites wires. , 2008, , .		0