

Jiandi Zhang

List of Publications by Year in descending order

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times ranked

3439
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of insulating and nonferromagnetic SrRuO_3 monolayers. <i>Physical Review B</i> , 2022, 105, .		
2	Magnetic oxygen in transition metal oxides: A case study of Ba_2CoO_4 . <i>Journal of Physics and Chemistry of Solids</i> , 2021, 150, 109803.	4.0	2
3	Formation of dislocations via misfit strain across interfaces in epitaxial BaTiO_3 and SrIrO_3 heterostructures. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 275003.	1.8	4
4	Abrupt orthorhombic relaxation in compressively strained ultrathin SrRuO_3 films. <i>Physical Review Materials</i> , 2021, 5, .	2.4	11
5	Visualizing quantum phenomena at complex oxide interfaces: An atomic view from scanning transmission electron microscopy. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	5
6	Toward ultrathin ferromagnetic metal of (110) $\text{La}_2/3\text{Sr}_{1/3}\text{MnO}_3$ thin films. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	6
7	Canted Eu magnetic structure in EuMnSb_2 . <i>Physical Review B</i> , 2020, 101, .	3.2	24
8	Role of disorder and correlations in the metal-insulator transition in ultrathin SrVO_3 films. <i>Physical Review B</i> , 2019, 100, .	3.2	17
9	Metal-to-Insulator Transition in Ultrathin Manganite Heterostructures. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 144.	2.5	24
10	Probing the Interfacial Symmetry Using Rotational Second-Harmonic Generation in Oxide Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23000-23006.	3.1	5
11	Atomic-scale determination of spontaneous magnetic reversal in oxide heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10309-10316.	7.1	18
12	Anomalous magnetic behavior of BaCo_2O_7 with isolated CoO_4 tetrahedra. <i>Physical Review B</i> , 2019, 99, .	3.2	8
13	Enhanced Superconducting State in $\text{FeSe}/\text{SrTiO}_3$ by a Dynamic Interfacial Polaron Mechanism. <i>Physical Review Letters</i> , 2019, 122, 066802.	4.8	48
14	Raman interrogation of the ferroelectric phase transition in polar metal LiOsO_3 . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20322-20327.	7.1	21
15	Interface-induced magnetic polar metal phase in complex oxides. <i>Nature Communications</i> , 2019, 10, 5248.	12.8	35
16	Rumpling and Enhanced Covalency at the $\text{SrTiO}_3(001)$ Surface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8086-8091.	3.1	20
17	Surface and interface properties of LaSr_2O_7 . <i>Physical Review B</i> , 2019, 100, .	2.4	16
18	Exchange bias and inverted hysteresis in monolithic oxide films by structural gradient. <i>Physical Review Research</i> , 2019, 1, .	3.6	5

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19	Lattice dynamics of ultrathin FeSe films on SrTiO_3 . Physical Review B, 2018, 97, .	7.1	26
20	Designing antiphase boundaries by atomic control of heterointerfaces. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9485-9490.	7.1	43
21	Coherent growth of oxide films on a cleaved layered metal oxide substrate. Physical Review Materials, 2018, 2, .	2.4	2
22	Interface-induced multiferroism by design in complex oxide superlattices. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5062-E5069.	7.1	42
23	Interfacial coupling and polarization of perovskite ABO ₃ heterostructures. , 2017, , .		0
24	Delicate competing electronic states in ultrathin manganite films. Physical Review B, 2017, 95, .	3.2	5
25	Anomalous Acoustic Plasmon Mode from Topologically Protected States. Physical Review Letters, 2017, 119, 136805.	7.8	41
26	Manganese-induced magnetic symmetry breaking and its correlation with the metal-insulator transition in bilayered $\text{Sr}_3(\text{Ru}_{1-x}\text{Mn}_x)\text{O}_7$. Physical Review B, 2017, 95, .	3.2	3
27	Misconceptions associated with the origin of charge density waves. Advances in Physics: X, 2017, 2, 622-640.	4.1	61
28	Manipulating the polar mismatch at the $\text{LaNiO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2017, 95, .	2.4	5
29	δ -Doping of oxygen vacancies dictated by thermodynamics in epitaxial SrTiO_3 films. AIP Advances, 2017, 7, .	1.3	9
30	Reentrance of low-temperature nonmetallic phase of $\text{LaNiO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2017, 95, .	2.4	5
31	Role of SrTiO_3 in the enhancement of superconductivity. Physical Review B, 2016, 94, .	3.2	7
32	Polar compensation at the surface of SrTiO_3 (111). Physical Review B, 2016, 93, .	3.2	6
33	Anomalous deep polarization in SrTiO_3 (001) interfaced with an epitaxial ultrathin manganite film. Physical Review B, 2016, 94, .	3.2	14
34	Hidden phases revealed at the surface of double-layered $\text{Sr}_3(\text{Ru}_{1-x}\text{Mn}_x)\text{O}_7$. Physical Review B, 2016, 94, .	3.2	7
35	Interrogating the superconductor $\text{Ca}_{10}(\text{Pt}_4\text{As}_8)(\text{Fe}_2\text{PtAs}_2)_5$ Layer-by-layer. Scientific Reports, 2016, 6, 35365.	3.3	6
36	Giant magneto-optical Raman effect in a layered transition metal compound. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2349-2353.	7.1	24

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37	Anisotropic field-induced melting of orbital ordered structure in Pr _{0.6} Ca _{0.4} MnO ₃ . Physical Review B, 2015, 91, .	3.2	7
38	Origin of the metal-insulator transition in ultrathin films of $L_xM_{1-x}S$. Physical Review B, 2015, 91, .	3.2	80
39	High resolution electron energy loss spectroscopy with two-dimensional energy and momentum mapping. Review of Scientific Instruments, 2015, 86, 083902.	1.3	36
40	Classification of charge density waves based on their nature. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2367-2371.	7.1	241
41	Cr-Doped TiSe ₂ as a Layered Dichalcogenide Spin Glass. Chemistry of Materials, 2015, 27, 6810-6817.	6.7	24
42	Role of Antiferromagnetic Ordering in the (1 $\bar{1}$ -2) Surface Reconstruction of Ca(Fe _{1-x} Cox) ₂ As ₂ . Physical Review Letters, 2014, 112, 077205.	7.8	7
43	A new non-destructive readout by using photo-recovered surface potential contrast. Scientific Reports, 2014, 4, 6980.	3.3	18
44	Tuning properties of columnar nanocomposite oxides. Applied Physics Letters, 2013, 103, 043112.	3.3	10
45	SURFACES OF TRANSITION-METAL COMPOUNDS: THE INTERPLAY BETWEEN STRUCTURE AND FUNCTIONALITY. , 2013, , 215-267.		0
46	Atomic-Scale Fingerprint of Mn Dopant at the Surface of Sr ₃ (Ru _{1-x} Mnx) ₂ O ₇ . Scientific Reports, 2013, 3, 2882.	3.3	18
47	Evidence for electric-field-driven migration and diffusion of oxygen vacancies in Pr _{0.7} Ca _{0.3} MnO ₃ . Journal of Applied Physics, 2012, 111, .	2.5	34
48	Single-bilayer E_x -type antiferromagnetism in Mn-substituted Sr ₃ Ru ₃ As ₂ . Physical Review B, 2012, 86, .	3.2	26
49	Colpied st="http://www.w3.org/1998/Math/MathML" display="inline" > < / m m l : m i > E < / m m l : m i > < / m m l : m a t h > - t y p e antiferromagnetism in Mn-substituted Sr ₃ As ₂ . Physical Review B, 2012, 86, .	3.2	12
50	Growth of SrTiO ₃ (110) film by oxide molecular beam epitaxy with feedback control. AIP Advances, 2012, 2, 041407.	1.3	13
51	Resistive Switching Memories: Observation of Conductance Quantization in Oxide-Based Resistive Switching Memory (Adv. Mater. 29/2012). Advanced Materials, 2012, 24, 3898-3898.	21.0	2
52	Nanoscale chemical phase separation in FeTe _{1-x} Se _x . Physical Review B, 2010, 81, .	3.2	66
53	Doping and dimensionality effects on the core-level spectra of layered ruthenates. Physical Review B, 2010, 81, .	3.2	10
54	Phonon softening and anomalous mode near the critical point in Ca ₂ Fe ₂ As ₂ . Physical Review B, 2009, 79, .	3.2	0

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55	Muon spin rotation and relaxation study of $Ba_{1-x}Sr_xMnO_3$. Physical Review B, 2009, 80, .	3.2	11
56	Local valence and magnetic characteristics of $La_{1-x}Sr_xMnO_3$. Physical Review B, 2009, 79, .	3.2	66
57	Anomalously large anisotropic magnetoresistance in a perovskite manganite. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14224-14229.	7.1	74
58	The electronic structure of surface chains in the layered semiconductor $In_4Se_3(100)$. Applied Physics Letters, 2008, 92, 122107.	3.3	30
59	Electrical-modulated magnetoresistance in multi-p-n heterojunctions of $La_{0.9}Sr_{0.1}MnO_3$ and oxygen-vacant $SrTiO_3$ on Si substrates. Applied Physics Letters, 2008, 93, 252110.	3.3	20
60	Signature of magnetic phase separation in the ground state of $Pr_{1-x}Ca_xMnO_3$. Physical Review B, 2008, 78, .	3.2	10
61	Magnons in ferromagnetic metallic manganites. Journal of Physics Condensed Matter, 2007, 19, 315204.	1.8	38
62	Ba_2CoO_4 : Crystal growth, structure refinement, and physical properties. Physical Review B, 2006, 73, .	3.2	17
63	Dopant-Induced Nanoscale Electronic Inhomogeneities in $Ca_{2-x}Sr_xRuO_4$. Physical Review Letters, 2006, 96, 066401.	7.8	14
64	Surface structure of ultrathin copolymer films of ferroelectric vinylidene fluoride (70%) with trifluoroethylene (30%) on graphite. Physical Review B, 2004, 70, .	3.2	31
65	Imperfection-driven phase transition at 120K in $Cd_2Re_2O_7$. Physical Review B, 2004, 70, .	3.2	10
66	Mercury and C_{2B10} Icosahedra Interaction. Materials Research Society Symposia Proceedings, 2004, 848, 348.	0.1	1
67	Surface dynamics of the layered ruthenate $Ca_{1.9}Sr_{0.1}RuO_4$. Physica Status Solidi (B): Basic Research, 2004, 241, 2363-2366.	1.5	5
68	Surface lattice dynamics of layered transition metal oxides: Sr_2RuO_4 and $La_{0.5}Sr_{1.5}MnO_4$. Physical Review B, 2003, 67, .	3.2	10
69	Surfaces: a playground for physics with broken symmetry in reduced dimensionality. Surface Science, 2002, 500, 1-27.	1.9	58
70	Jahn-Teller Phonon Anomaly and Dynamic Phase Fluctuations in $La_{0.7}Ca_{0.3}MnO_3$. Physical Review Letters, 2001, 86, 3823-3826.	7.8	50
71	Phonon-induced photoconductive response in doped semiconductors. Physical Review B, 2001, 64, .	3.2	12
72	Ferromagnetism Stabilized by Lattice Distortion at the Surface of the p-Wave Superconductor Sr_2RuO_4 . Science, 2000, 289, 746-748.	12.6	211

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73	Defect-Mediated Condensation of a Charge Density Wave. Science, 1999, 285, 2107-2110.	12.6	107