

Jiandi Zhang

List of Publications by Year in descending order

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257450

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43
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73
all docs

73
docs citations

73
times ranked

3439
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ferromagnetism Stabilized by Lattice Distortion at the Surface of the p-Wave Superconductor Sr ₂ RuO ₄ . Science, 2000, 289, 746-748.	12.6	211
3	Defect-Mediated Condensation of a Charge Density Wave. Science, 1999, 285, 2107-2110.	12.6	107
4	Origin of the metal-insulator transition in ultrathin films of $\text{La}_{1-x}\text{S}_x\text{FeAs}_2$. Physical Review B, 2017, 95, 040407.	3.2	80
5	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
6	Role of SrTiO_3 penetrating into thin FeSe films in the enhancement of superconductivity. Physical Review B, 2016, 94, .	3.2	71
7	Local valence and magnetic characteristics of $\text{La}_{1-x}\text{Fe}_x\text{As}_2$. Physical Review B, 2017, 95, 040407.	3.2	66
8	Nanoscale chemical phase separation in $\text{FeTe}_{1-x}\text{Se}_x$. Physical Review B, 2017, 95, 040407.	3.2	66
9	Misconceptions associated with the origin of charge density waves. Advances in Physics: X, 2017, 2, 622-640.	4.1	61
10	Surfaces: a playground for physics with broken symmetry in reduced dimensionality. Surface Science, 2002, 500, 1-27.	1.9	58
11	Jahn-Teller Phonon Anomaly and Dynamic Phase Fluctuations in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. Physical Review Letters, 2001, 86, 3823-3826.	7.8	50
12	Enhanced Superconducting State in $\text{SrTiO}_3/\text{FeSe}$ by a Dynamic Interfacial Polaron Mechanism. Physical Review Letters, 2019, 122, 066802.	7.8	48
13	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
14	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
15	Anomalous Acoustic Plasmon Mode from Topologically Protected States. Physical Review Letters, 2017, 119, 136805.	7.8	41
16	Magnons in ferromagnetic metallic manganites. Journal of Physics Condensed Matter, 2007, 19, 315204.	1.8	38
17	High resolution electron energy loss spectroscopy with two-dimensional energy and momentum mapping. Review of Scientific Instruments, 2015, 86, 083902.	1.3	36
18	Interface-induced magnetic polar metal phase in complex oxides. Nature Communications, 2019, 10, 5248.	12.8	35

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19	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
20	Surface structure of ultrathin copolymer films of ferroelectric vinylidene fluoride (70%) with trifluoroethylene (30%) on graphite. Physical Review B, 2004, 70, .	3.2	31
21	The electronic structure of surface chains in the layered semiconductor In ₄ Se ₃ (100). Applied Physics Letters, 2008, 92, 122107.	3.3	30
22	Single-bilayer E -type antiferromagnetism in Mn-substituted Sr $\langle \text{mml:msub} \langle \text{mml:mrow} / \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle \text{Ru} \langle \text{mml:math} \rangle$	3.2	26
23	Lattice dynamics of ultrathin FeSe films on $\langle \text{mml:math} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{SrTiO} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} / \rangle \langle \text{mml:math} \rangle$	3.2	26
24	Cr-Doped TiSe ₂ – A Layered Dichalcogenide Spin Glass. Chemistry of Materials, 2015, 27, 6810-6817.	6.7	24
25	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
26	Metal-to-Insulator Transition in Ultrathin Manganite Heterostructures. Applied Sciences (Switzerland), 2019, 9, 144.	2.5	24
27	Canted Eu magnetic structure in $\langle \text{mml:math} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{EuMnS} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle b \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$.	3.2	24
28	Raman interrogation of the ferroelectric phase transition in polar metal LiOsO ₃ . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20322-20327.	7.1	21
29	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
30	Rumpling and Enhanced Covalency at the SrTiO ₃ (001) Surface. Journal of Physical Chemistry C, 2019, 123, 8086-8091.	3.1	20
31	Atomic-Scale Fingerprint of Mn Dopant at the Surface of Sr ₃ (Ru _{1-x} Mnx)2O ₇ . Scientific Reports, 2013, 3, 2882.	3.3	18
32	A new non-destructive readout by using photo-recovered surface potential contrast. Scientific Reports, 2014, 4, 6980.	3.3	18
33	Atomic-scale determination of spontaneous magnetic reversal in oxide heterostructures. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10309-10316.	7.1	18
34	Ba ₂ CoO ₄ : Crystal growth, structure refinement, and physical properties. Physical Review B, 2006, 73, .	3.2	17
35	Role of disorder and correlations in the metal-insulator transition in ultrathin $\langle \text{mml:math} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{SrVO} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} / \rangle \langle \text{mml:math} \rangle$ films. Physical Review B, 2019, 100, .	3.2	17
36	Surface and interface properties of $\langle \text{mml:math} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle L \langle \text{mml:mi} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle a \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle S \langle \text{mml:mi} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle r \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle$	2.4	16

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37	Manipulating the polar mismatch at the $\text{LaNiO}_3/\text{SrTiO}_3$ interface. <i>Physical Review B</i> , 2017, 95, .	3.2	11
38	Dopant-Induced Nanoscale Electronic Inhomogeneities in $\text{Ca}_2\text{xSrRuO}_4$. <i>Physical Review Letters</i> , 2006, 96, 066401.	7.8	14
39	Anomalously deep polarization in SrTiO_3 interfaced with an epitaxial ultrathin manganite film. <i>Physical Review B</i> , 2016, 94, .	3.2	14
40	Growth of $\text{SrTiO}_3(110)$ film by oxide molecular beam epitaxy with feedback control. <i>AIP Advances</i> , 2012, 2, 041407.	1.3	13
41	Phonon-induced photoconductive response in doped semiconductors. <i>Physical Review B</i> , 2001, 64, .	3.2	12
42	Coupled structural and magnetic antiphase domain walls on BaFeAs_2 . <i>Physical Review B</i> , 2012, 86, .	3.2	12
43	Origin of insulating and nonferromagnetic SrRuO_3 monolayers. <i>Physical Review B</i> , 2022, 105, .	3.2	11
44	Muon spin rotation and relaxation study of BaFeAs_2 . <i>Physical Review B</i> , 2009, 80, .	3.2	11
45	Abrupt orthorhombic relaxation in compressively strained ultrathin SrRuO_3 films. <i>Physical Review Materials</i> , 2021, 5, .	2.4	11
46	Surface lattice dynamics of layered transition metal oxides: Sr_2RuO_4 and $\text{La}_{0.5}\text{Sr}_{1.5}\text{MnO}_4$. <i>Physical Review B</i> , 2003, 67, .	3.2	10
47	Imperfection-driven phase transition at 120K in $\text{Cd}_2\text{Re}_2\text{O}_7$. <i>Physical Review B</i> , 2004, 70, .	3.2	10
48	Signature of magnetic phase separation in the ground state of $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$. <i>Physical Review B</i> , 2008, 78, .	3.2	10
49	Doping and dimensionality effects on the core-level spectra of layered ruthenates. <i>Physical Review B</i> , 2010, 81, .	3.2	10
50	Tuning properties of columnar nanocomposite oxides. <i>Applied Physics Letters</i> , 2013, 103, 043112.	3.3	10
51	$\hat{\Gamma}$ -Doping of oxygen vacancies dictated by thermodynamics in epitaxial SrTiO_3 films. <i>AIP Advances</i> , 2017, 7, .	1.3	9
52	Anomalous magnetic behavior of BaFe_2As_2 with isolated CoO tetrahedra. <i>Physical Review B</i> , 2019, 99, .	3.2	8
53	Role of Antiferromagnetic Ordering in the $(1\text{\AA}-2)$ Surface Reconstruction of $\text{Ca}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review Letters</i> , 2014, 112, 077205.	7.8	7
54	Anisotropic field-induced melting of orbital ordered structure in $\text{Pr}_{0.6}\text{Ca}_{0.4}\text{MnO}_3$. <i>Physical Review B</i> , 2015, 91, .	3.2	7

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55	Hidden phases revealed at the surface of double-layered $\text{Sr}_3(\text{Ru}_{1-x}\text{Mn}_x)\text{O}_7$. <i>Physical Review B</i> , 2016, 94, .	3.2	7
56	Polar compensation at the surface of SrTiO_3 (111). <i>Physical Review B</i> , 2016, 93, .	3.2	6
57	Interrogating the superconductor $\text{Ca}_{10}(\text{Pt}_4\text{As}_8)(\text{Fe}_2\text{PtAs}_2)_5$ Layer-by-layer. <i>Scientific Reports</i> , 2016, 6, 35365.	3.3	6
58	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
59	Surface dynamics of the layered ruthenate $\text{Ca}_{1.9}\text{Sr}_{0.1}\text{RuO}_4$. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 2363-2366.	1.5	5
60	Delicate competing electronic states in ultrathin manganite films. <i>Physical Review B</i> , 2017, 95, .	3.2	5
61	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
62	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
63	Reentrance of low-temperature nonmetallic phase of CaMnO_3 . <i>Physical Review B</i> , 2019, 100, 040401.	2.4	5
64	Exchange bias and inverted hysteresis in monolithic oxide films by structural gradient. <i>Physical Review Research</i> , 2019, 1, .	3.6	5
65	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
66	Manganese-induced magnetic symmetry breaking and its correlation with the metal-insulator transition in bilayered $\text{Sr}_3(\text{Ru}_{1-x}\text{Mn}_x)\text{O}_7$. <i>Physical Review B</i> , 2017, 95, .	3.2	3
67	Resistive Switching Memories: Observation of Conductance Quantization in Oxide-Based Resistive Switching Memory (<i>Adv. Mater.</i> 29/2012). <i>Advanced Materials</i> , 2012, 24, 3898-3898.	21.0	2
68	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
69	Coherent growth of oxide films on a cleaved layered metal oxide substrate. <i>Physical Review Materials</i> , 2018, 2, .	2.4	2
70	Mercury and $\text{C}_{2\text{B}_{10}}$ Icosahedra Interaction. <i>Materials Research Society Symposia Proceedings</i> , 2004, 848, 348.	0.1	1
71	Phonon softening and anomalous mode near the critical point in CaMnO_3 . <i>Physical Review B</i> , 2009, 79, .	3.2	0
72	SURFACES OF TRANSITION-METAL COMPOUNDS: THE INTERPLAY BETWEEN STRUCTURE AND FUNCTIONALITY. <i>Journal of Applied Physics</i> , 2013, , 215-267.		0

#	ARTICLE	IF	CITATIONS
73	Interfacial coupling and polarization of perovskite ABO ₃ heterostructures. , 2017, , .		0