

Zc Zhong

List of Publications by Year in descending order

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88
papers

3,871
citations

126907

33
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61
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88
all docs

88
docs citations

88
times ranked

5216
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-orbit coupling at $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces and SrTiO_3 surfaces. <i>Physical Review B</i> , 2010, 82, .	3.2	312
2	Controlled lateral anisotropy in correlated manganite heterostructures by interface-engineered oxygen octahedral coupling. <i>Nature Materials</i> , 2016, 15, 425-431.	27.5	292
3	Stacking tunable interlayer magnetism in bilayer CrI_3 . <i>Physical Review B</i> , 2019, 99, .	3.2	117
4	Spin Direction-Controlled Electronic Band Structure in Two-Dimensional Ferromagnetic CrI_3 . <i>Nano Letters</i> , 2018, 18, 3844-3849.	9.1	150
5	Nickelate superconductors—a renaissance of the one-band Hubbard model. <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	129
6	Polarity-induced oxygen vacancies at $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>Physical Review B</i> , 2010, 82, .	3.2	112
7	Electrostatic Doping of Graphene through Ultrathin Hexagonal Boron Nitride Films. <i>Nano Letters</i> , 2011, 11, 4631-4635.	9.1	118
8	Rocksalt SnS and SnSe : Native topological crystalline insulators. <i>Physical Review B</i> , 2013, 88, .	3.2	104
9	Topotactic Hydrogen in Nickelate Superconductors and Akin Infinite-Layer Oxides A_2BO_2 . <i>Physical Review Letters</i> , 2020, 124, 166402.	7.8	102
10	Anisotropic two-dimensional electron gas at SrTiO_3 (110). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3933-3937.	7.1	99
11	Electronic structure of rare-earth infinite-layer R_2NiO_2 . <i>Physical Review B</i> , 2019, 100, .	3.2	98
12	Quantization of Hall Resistance at the Metallic Interface between an Oxide Insulator and SrTiO_3 . <i>Physical Review Letters</i> , 2016, 117, 096804.	7.8	87
13	Coexistence of piezoelectricity and magnetism in two-dimensional vanadium dichalcogenides. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 132-136.	2.8	80
14	A 1D Vanadium Dioxide Nanochannel Constructed via Electric-Field-Induced Ion Transport and its Superior Metal-Insulator Transition. <i>Advanced Materials</i> , 2017, 29, 1702162.	21.0	79
15	Electronics with Correlated Oxides: SrVO_3 a Mott Transistor. <i>Physical Review Letters</i> , 2015, 114, 246401.	7.1	77
16	Electronic-structure-induced reconstruction and magnetic ordering at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>Europhysics Letters</i> , 2008, 84, 27001.	2.0	74
17	Hard x-ray photoemission and density functional theory study of the internal electric field in $\text{SrTiO}_3/\text{LaAlO}_3$ oxide heterostructures. <i>Physical Review B</i> , 2013, 87, .	3.2	64
18	Symmetry mismatch-driven perpendicular magnetic anisotropy for perovskite/brownmillerite heterostructures. <i>Nature Communications</i> , 2018, 9, 1923.	12.8	63

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19	Band Alignment and Charge Transfer in Complex Oxide Interfaces. <i>Physical Review X</i> , 2017, 7, .	8.9	62
20	Thickness Dependent Properties in Oxide Heterostructures Driven by Structurally Induced Metalâ€“Oxygen Hybridization Variations. <i>Advanced Functional Materials</i> , 2017, 27, 1606717.	14.9	61
21	Electronic Reconstruction at the Isopolar LaTiO_3 An X-Ray Photoemission and Density-Functional Theory Study. <i>Physical Review Letters</i> , 2014, 113, 237402.	7.8	56
22	Interface-based tuning of Rashba spin-orbit interaction in asymmetric oxide heterostructures with 3d electrons. <i>Nature Communications</i> , 2019, 10, 3052.	12.8	51
23	Designing substrates for silicene and germanene: First-principles calculations. <i>Physical Review B</i> , 2016, 94, .	3.2	50
24	Tuning the work function in transition metal oxides and their heterostructures. <i>Physical Review B</i> , 2016, 93, .	3.2	50
25	Quantum Anomalous Hall State in Ferromagnetic SrRuO ₃ (111) Bilayers. <i>Physical Review Letters</i> , 2017, 119, 026402.	7.8	47
26	Route to room-temperature ferromagnetic ultrathin SrRuO ₃ films. <i>Physical Review B</i> , 2015, 92, .	3.2	41
27	Tunable band gap and enhanced ferromagnetism by surface adsorption in monolayer Cr_2Te . <i>Physical Review B</i> , 2019, 99, .	3.2	40
28	Decreasing the catalytic ignition temperature of diesel soot using electrified conductive oxide catalysts. <i>Nature Catalysis</i> , 2021, 4, 1002-1011.	34.4	40
29	Complex magnetic order in nickelate slabs. <i>Nature Physics</i> , 2018, 14, 1097-1102.	16.7	37
30	Prediction of thickness limits of ideal polar ultrathin films. <i>Physical Review B</i> , 2012, 85, .	3.2	36
31	Unified Picture for the Colossal Thermopower Compound FeSb_2 . <i>Physical Review Letters</i> , 2015, 114, 236603.	7.8	36
32	Anomalous orbital structure in a spinelâ€“perovskite interface. <i>Npj Quantum Materials</i> , 2016, 1, .	5.2	36
33	Ferroelectric structural transition in hafnium oxide induced by charged oxygen vacancies. <i>Physical Review B</i> , 2021, 104, .	3.2	35
34	Defectâ€“Engineered Dzyaloshinskiiâ€“Moriya Interaction and Electricâ€“Fieldâ€“Switchable Topological Spin Texture in SrRuO ₃ . <i>Advanced Materials</i> , 2021, 33, e2102525.	21.0	34
35	Enhancement of polarization in a spin-orbit coupling quantum wire with a constriction. <i>Physical Review B</i> , 2007, 76, .	3.2	33
36	Structural, magnetic, and electrical properties of $\text{Li}_2\text{IrRu}_2\text{O}_{11}$. <i>Physical Review B</i> , 2017, 95, 040402.	3.2	32

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37	Localized Control of Curie Temperature in Perovskite Oxide Film by Capping-Layer-Induced Octahedral Distortion. <i>Physical Review Letters</i> , 2017, 119, 177203.	7.8	31
38	Controllable and Stable Quantized Conductance States in a Pt/HfO _x /ITO Memristor. <i>Advanced Electronic Materials</i> , 2020, 6, 1901055.	5.1	31
39	First Principles Prediction of Topological Phases in Thin Films of Pyrochlore Iridates. <i>Scientific Reports</i> , 2015, 5, 11072.	3.3	30
40	Rationally Designed High-Performance Spin Filter Based on Two-Dimensional Half-Metal Cr ₂ NO ₂ . <i>Matter</i> , 2019, 1, 1304-1315.	10.0	30
41	Quantum confinement in perovskite oxide heterostructures: Tight binding instead of a nearly free electron picture. <i>Physical Review B</i> , 2013, 88, .	3.2	29
42	Giant Switchable Rashba Effect in Oxide Heterostructures. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400445.	3.7	29
43	Tailoring the structure and thermoelectric properties of BaTiO ₃ via Eu ²⁺ substitution. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13469-13480.	2.8	28
44	Atomically Precise Lateral Modulation of a Two-Dimensional Electron Liquid in Anatase TiO ₂ Thin Films. <i>Nano Letters</i> , 2017, 17, 2561-2567.	9.1	28
45	Diluted Oxide Interfaces with Tunable Ground States. <i>Advanced Materials</i> , 2019, 31, e1805970.	21.0	28
46	Electronic structure of the candidate 2D Dirac semimetal SrMnSb ₂ : a combined experimental and theoretical study. <i>SciPost Physics</i> , 2018, 4, .	4.9	28
47	Antiferromagnetism in Ni-Based Superconductors. <i>Advanced Materials</i> , 2022, 34, e2106117.	21.0	26
48	Long-Range Domain Structure and Symmetry Engineering by Interfacial Oxygen Octahedral Coupling at Heterostructure Interface. <i>Advanced Functional Materials</i> , 2016, 26, 6627-6634.	14.9	25
49	Atomic-Scale Metal-Insulator Transition in SrRuO ₃ Ultrathin Films Triggered by Surface Termination Conversion. <i>Advanced Materials</i> , 2020, 32, e1905815.	21.0	25
50	Polarity-induced electronic and atomic reconstruction at NdNiO ₂ interfaces. <i>Physical Review B</i> , 2020, 102, .	21.0	25
51	Structural phase transitions in SrTiO ₃ from deep potential molecular dynamics. <i>Physical Review B</i> , 2022, 105, .	3.2	25
52	Electric Field Control of the Magnetic Weyl Fermion in an Epitaxial SrRuO ₃ (111) Thin Film. <i>Advanced Materials</i> , 2021, 33, e2101316.	21.0	24
53	Phase Diagram of Nickelate Superconductors Calculated by Dynamical Vertex Approximation. <i>Frontiers in Physics</i> , 2022, 9, .	2.1	24
54	Cooperative control of perpendicular magnetic anisotropy via crystal structure and orientation in freestanding SrRuO ₃ membranes. <i>Npj Flexible Electronics</i> , 2022, 6, .	10.7	21

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55	Discovery of Robust Ferroelectricity in 2D Defective Semiconductor $\pm\text{Ga}_2\text{Se}_3$. Small, 2022, 18, e2105599.	10.0	21
56	Stretchable tactile sensor with high sensitivity and dynamic stability based on vertically aligned urchin-shaped nanoparticles. Materials Today Physics, 2020, 14, 100219.	6.0	20
57	Microscopic understanding of the orbital splitting and its tuning at oxide interfaces. Europhysics Letters, 2012, 99, 37011.	2.0	19
58	Electric field controllable high-spin SrRuO_3 driven by a solid ionic junction. Physical Review B, 2020, 101, 080401.	3.2	19
59	Surface Effects on the Mott-Hubbard Transition in Archetypal VO_2 . Physical Review Letters, 2015, 115, 236802.	7.8	16
60	Emergent Ferroelectricity in Otherwise Nonferroelectric Oxides by Oxygen Vacancy Design at Heterointerfaces. ACS Applied Materials & Interfaces, 2020, 12, 45602-45610.	8.0	15
61	Colossal angular magnetoresistance in the antiferromagnetic semiconductor EuTe_2 . Physical Review B, 2021, 104, .	3.2	15
62	Chiral d-wave superconductivity in a triangular surface lattice mediated by long-range interaction. Physical Review B, 2018, 97, .	3.2	14
63	Ferromagnetism and matrix-dependent charge transfer in strained LaMnO_3 LaCoO_3 superlattices. Materials Research Letters, 2018, 6, 501-507.	8.7	13
64	Materials with strong spin-textured bands. Npj Quantum Materials, 2020, 5, .	5.2	13
65	A flexible dual-gate hetero-synaptic transistor for spatiotemporal information processing. Nanoscale Advances, 2022, 4, 2412-2419.	4.6	13
66	Oxygen vacancy enhanced ferroelectricity in BTO:SRO nanocomposite films. Acta Materialia, 2020, 199, 9-18.	7.9	12
67	Emergent Magnetic State in (111)-Oriented Quasi-Two-Dimensional Spinel Oxides. Nano Letters, 2019, 19, 8381-8387.	9.1	10
68	Origins of bond and spin order in rare-earth nickelate bulk and heterostructures. Physical Review B, 2017, 95, .	3.2	9
69	Topological Phase Transition with Nanoscale Inhomogeneity in $(\text{BiIn})_2\text{Se}_3$. Nano Letters, 2018, 18, 2677-2682.	9.1	7
70	Magnetism in doped infinite-layer NdNiO_2 studied by combined density functional theory and dynamical mean-field theory. Physical Review B, 2022, 106, .	3.2	7
71	Nonmonotonic crossover in electronic phase separated manganite superlattices driven by the superlattice period. Physical Review B, 2020, 102, .	3.2	6
72	Control of the metal-insulator transition in NdNiO_3 thin films through the interplay between structural and electronic properties. Physical Review Materials, 2021, 5, .	2.4	6

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73	First-principle study of Sr-doping effect in Nd _{1-x} Sr _x NiO ₂ . Europhysics Letters, 2021, 135, 67001.	2.0	5
74	Lateral Modulation of Magnetic Anisotropy in Tricolor 3d-5d Oxide Superlattices. ACS Applied Electronic Materials, 2021, 3, 4210-4217.	4.3	5
75	Thickness-Dependent Magnetism and Topological Properties of EuSn ₂ As ₂ . ACS Applied Electronic Materials, 2022, 4, 3212-3219.	4.3	5
76	Noncollinearity-modulated Electronic Properties of Monolayer CrI ₃ . Physical Review Applied, 2019, 11, .	3.8	3
77	Oxide Interfaces: Diluted Oxide Interfaces with Tunable Ground States (Adv. Mater. 10/2019). Advanced Materials, 2019, 31, 1970072.	21.0	3
78	Isostructural metal-insulator transition driven by dimensional-crossover in SrIrO_3 heterostructures. Physical Review Materials, 2022, 6, .	3.2	2
79	Insulator heterointerfaces: Creation of half-metallicity and anionogenic ferromagnetism via double exchange. Physical Review B, 2018, 97, .	3.2	2
80	Polar Rectification Effect in Electro-Fatigued SrTiO ₃ -Based Junctions. ACS Applied Materials & Interfaces, 2020, 12, 31645-31651.	8.0	2
81	Pitfalls and solutions for perovskite transparent conductors. Physical Review B, 2021, 104, .	3.2	2
82	Nanochannels: A 1D Vanadium Dioxide Nanochannel Constructed via Electric-Field-Induced Ion Transport and its Superior Metal-Insulator Transition (Adv. Mater. 39/2017). Advanced Materials, 2017, 29, .	21.0	1
83	Epitaxial Ultrathin Films: Atomic-Scale Metal-Insulator Transition in SrRuO ₃ Ultrathin Films Triggered by Surface Termination Conversion (Adv. Mater. 8/2020). Advanced Materials, 2020, 32, 2070058.	21.0	1
84	Defect-Engineered Dzyaloshinskii-Moriya Interaction and Electric-Field-Switchable Topological Spin Texture in SrRuO ₃ (Adv. Mater. 33/2021). Advanced Materials, 2021, 33, 2170255.	21.0	1
85	First-principle study of metal oxide thin films: Electronic and magnetic properties of confined d electrons. , 2018, , 245-261.		0
86	Dynamical Mean Field Theory for Oxide Heterostructures. Springer Series in Materials Science, 2018, , 215-243.	0.6	0
87	Interplay between structural and electronic properties with the metal-insulator transition in NdNiO ₃ thin films. Microscopy and Microanalysis, 2021, 27, 144-145.	0.4	0
88	Electrically controllable zero-energy states in Rashba oxide heterostructure with in-plane magnetic field cooling. Applied Physics Letters, 2021, 119, 192601.	3.3	0