

Zc Zhong

List of Publications by Year in descending order

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88
papers

3,871
citations

126907

33
h-index

123424

61
g-index

88
all docs

88
docs citations

88
times ranked

5216
citing authors

#	ARTICLE	IF	CITATIONS
1	Antiferromagnetism in Ni-Based Superconductors. <i>Advanced Materials</i> , 2022, 34, e2106117.	21.0	26
2	Phase Diagram of Nickelate Superconductors Calculated by Dynamical Vertex Approximation. <i>Frontiers in Physics</i> , 2022, 9, .	2.1	24
3	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
4	Isostructural metal-insulator transition driven by dimensional-crossover in SrIrO_3 heterostructures. <i>Physical Review Materials</i> , 2022, 6, .	2.4	21
5	Discovery of Robust Ferroelectricity in 2D Defective Semiconductor Ga_2Se_3 . <i>Small</i> , 2022, 18, e2105599.	10.0	21
6	A flexible dual-gate hetero-synaptic transistor for spatiotemporal information processing. <i>Nanoscale Advances</i> , 2022, 4, 2412-2419.	4.6	13
7	Structural phase transitions in SrTiO_3 from deep potential molecular dynamics. <i>Physical Review B</i> , 2022, 105, .	3.2	25
8	Thickness-Dependent Magnetism and Topological Properties of EuSn_2As_2 . <i>ACS Applied Electronic Materials</i> , 2022, 4, 3212-3219.	4.3	5
9	Magnetism in doped infinite-layer NdNiO_2 studied by combined density functional theory and dynamical mean-field theory. <i>Physical Review B</i> , 2022, 106, .	3.2	7
10	Control of the metal-insulator transition in NdNiO_3 thin films through the interplay between structural and electronic properties. <i>Physical Review Materials</i> , 2021, 5, .	2.4	6
11	Interplay between structural and electronic properties with the metal-insulator transition in NdNiO_3 thin films. <i>Microscopy and Microanalysis</i> , 2021, 27, 144-145.	0.4	0
12	Pitfalls and solutions for perovskite transparent conductors. <i>Physical Review B</i> , 2021, 104, .	3.2	2
13	Defect-Engineered Dzyaloshinskii-Moriya Interaction and Electric-Field-Switchable Topological Spin Texture in SrRuO_3 . <i>Advanced Materials</i> , 2021, 33, e2102525.	21.0	34
14	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
15	First-principle study of Sr-doping effect in $\text{Nd}_{1-x}\text{Sr}_x\text{NiO}_2$. <i>Europhysics Letters</i> , 2021, 135, 67001.	2.0	5
16	Defect-Engineered Dzyaloshinskii-Moriya Interaction and Electric-Field-Switchable Topological Spin Texture in SrRuO_3 (Adv. Mater. 33/2021). <i>Advanced Materials</i> , 2021, 33, 2170255.	21.0	1
17	Lateral Modulation of Magnetic Anisotropy in Tricolor 3d-5d Oxide Superlattices. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4210-4217.	4.3	5
18	Electrically controllable zero-energy states in Rashba oxide heterostructure with in-plane magnetic field cooling. <i>Applied Physics Letters</i> , 2021, 119, 192601.	3.3	0

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19	Ferroelectric structural transition in hafnium oxide induced by charged oxygen vacancies. <i>Physical Review B</i> , 2021, 104, .	3.2	35
20	Decreasing the catalytic ignition temperature of diesel soot using electrified conductive oxide catalysts. <i>Nature Catalysis</i> , 2021, 4, 1002-1011.	34.4	40
21	Colossal angular magnetoresistance in the antiferromagnetic semiconductor EuTe . <i>Physical Review B</i> , 2021, 104, .	3.2	15
22	Controllable and Stable Quantized Conductance States in a Pt/HfO ₂ /ITO Memristor. <i>Advanced Electronic Materials</i> , 2020, 6, 1901055.	5.1	31
23	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
24	Polarity-induced electronic and atomic reconstruction at NdNiO ₂ /SrTiO ₃ interfaces. <i>Physical Review B</i> , 2020, 102, .	3.2	15
25	Nickelate superconductors—a renaissance of the one-band Hubbard model. <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	129
26	Emergent Ferroelectricity in Otherwise Nonferroelectric Oxides by Oxygen Vacancy Design at Heterointerfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45602-45610.	8.0	15
27	Nonmonotonic crossover in electronic phase separated manganite superlattices driven by the superlattice period. <i>Physical Review B</i> , 2020, 102, .	3.2	6
28	Electric field controllable high-spin SrRuO ₃ driven by a solid ionic junction. <i>Physical Review B</i> , 2020, 101, .	3.2	19
29	Materials with strong spin-textured bands. <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	13
30	Polar Rectification Effect in Electro-Fatigued SrTiO ₃ -Based Junctions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31645-31651.	8.0	2
31	Epitaxial Ultrathin Films: Atomic-Scale Metal-Insulator Transition in SrRuO ₃ Ultrathin Films Triggered by Surface Termination Conversion (<i>Adv. Mater.</i> 8/2020). <i>Advanced Materials</i> , 2020, 32, 2070058.	21.0	1
32	Topotactic Hydrogen in Nickelate Superconductors and Akin Infinite-Layer Oxides AB_2O . <i>Physical Review Letters</i> , 2020, 124, 166402.	7.8	102
33	Oxygen vacancy enhanced ferroelectricity in BTO:SRO nanocomposite films. <i>Acta Materialia</i> , 2020, 199, 9-18.	7.9	12
34	Stretchable tactile sensor with high sensitivity and dynamic stability based on vertically aligned urchin-shaped nanoparticles. <i>Materials Today Physics</i> , 2020, 14, 100219.	6.0	20
35	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
36	Tunable band gap and enhanced ferromagnetism by surface adsorption in monolayer Cr_2Te . <i>Physical Review B</i> , 2019, 99, .	3.2	10

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37	Emergent Magnetic State in (111)-Oriented Quasi-Two-Dimensional Spinel Oxides. Nano Letters, 2019, 19, 8381-8387.	9.1	10
38	Rationally Designed High-Performance Spin Filter Based on Two-Dimensional Half-Metal Cr ₂ NO ₂ . Matter, 2019, 1, 1304-1315.	10.0	30
39	Coexistence of piezoelectricity and magnetism in two-dimensional vanadium dichalcogenides. Physical Chemistry Chemical Physics, 2019, 21, 132-136.	2.8	80
40	Noncollinearity-modulated Electronic Properties of Monolayer CrI ₃ . Physical Review Applied, 2019, 11, .	3.8	3
41	Oxide Interfaces: Diluted Oxide Interfaces with Tunable Ground States (Adv. Mater. 10/2019). Advanced Materials, 2019, 31, 1970072.	21.0	3
42	Stacking tunable interlayer magnetism in bilayer Cr ₂ Sb ₂ . Physical Review B, 2019, 99, .	3.2	28
43	Electronic structure of rare-earth infinite-layer R ₂ O ₂ Ni ₂ SO ₈ . Physical Review B, 2019, 100, .	3.2	98
44	Diluted Oxide Interfaces with Tunable Ground States. Advanced Materials, 2019, 31, e1805970.	21.0	28
45	Chiral d-wave superconductivity in a triangular surface lattice mediated by long-range interaction. Physical Review B, 2018, 97, .	3.2	14
46	-insulator heterointerfaces: Creation of half-metallicity and anionogenic ferromagnetism via double exchange. Physical Review B, 2018, 97, .	3.2	2
47	Topological Phase Transition with Nanoscale Inhomogeneity in (Bi _{1-x} In _x) ₂ Se ₃ . Nano Letters, 2018, 18, 2677-2682.	9.1	7
48	Spin Direction-Controlled Electronic Band Structure in Two-Dimensional Ferromagnetic CrI ₃ . Nano Letters, 2018, 18, 3844-3849.	9.1	150
49	Symmetry mismatch-driven perpendicular magnetic anisotropy for perovskite/brownmillerite heterostructures. Nature Communications, 2018, 9, 1923.	12.8	63
50	Ferromagnetism and matrix-dependent charge transfer in strained LaMnO ₃ ∕LaCoO ₃ superlattices. Materials Research Letters, 2018, 6, 501-507.	8.7	13
51	First-principle study of metal oxide thin films: Electronic and magnetic properties of confined d electrons. , 2018, , 245-261.		0
52	Complex magnetic order in nickelate slabs. Nature Physics, 2018, 14, 1097-1102.	16.7	37
53	Dynamical Mean Field Theory for Oxide Heterostructures. Springer Series in Materials Science, 2018, , 215-243.	0.6	0
54	Electronic structure of the candidate 2D Dirac semimetal SrMnSb ₂ : a combined experimental and theoretical study. SciPost Physics, 2018, 4, .	4.9	28

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55	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
56	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
57	Band Alignment and Charge Transfer in Complex Oxide Interfaces. <i>Physical Review X</i> , 2017, 7, .	8.9	62
58	Thickness Dependent Properties in Oxide Heterostructures Driven by Structurally Induced Metal- ^l Oxygen Hybridization Variations. <i>Advanced Functional Materials</i> , 2017, 27, 1606717.	14.9	61
59	Nanochannels: A 1D Vanadium Dioxide Nanochannel Constructed via Electric-Field-Induced Ion Transport and its Superior Metal- ^l Insulator Transition (<i>Adv. Mater.</i> 39/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
60	A 1D Vanadium Dioxide Nanochannel Constructed via Electric-Field-Induced Ion Transport and its Superior Metal- ^l Insulator Transition. <i>Advanced Materials</i> , 2017, 29, 1702162.	21.0	79
61	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
62	Quantum Anomalous Hall State in Ferromagnetic SrRuO ₃ (111) Bilayers. <i>Physical Review Letters</i> , 2017, 119, 026402.	7.8	47
63	Origins of bond and spin order in rare-earth nickelate bulk and heterostructures. <i>Physical Review B</i> , 2017, 95, .	3.2	9
64	Anomalous orbital structure in a spinel- ^l perovskite interface. <i>Npj Quantum Materials</i> , 2016, 1, .	5.2	36
65	Designing substrates for silicene and germanene: First-principles calculations. <i>Physical Review B</i> , 2016, 94, .	3.2	50
66	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
67	Tuning the work function in transition metal oxides and their heterostructures. <i>Physical Review B</i> , 2016, 93, .	3.2	50
68	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
69	Controlled lateral anisotropy in correlated manganite heterostructures by interface-engineered oxygen octahedral coupling. <i>Nature Materials</i> , 2016, 15, 425-431.	27.5	292
70	Route to room-temperature ferromagnetic ultrathin SrRuO ₃ films. <i>Physical Review B</i> , 2015, 92, .	3.2	41
71	Unified Picture for the Colossal Thermopower Compound FeSb_2 . <i>Physical Review Letters</i> , 2015, 114, 236603.	7.8	36
72	Surface Effects on the Mott-Hubbard Transition in Archetypal VO_3 . <i>Physical Review Letters</i> , 2015, 115, 236802.	7.8	16

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73	Electronics with Correlated Oxides: SrVO_3 a Mott Transistor. Physical Review Letters, 2015, 114, 246401.	7.8	56
74	First Principles Prediction of Topological Phases in Thin Films of Pyrochlore Iridates. Scientific Reports, 2015, 5, 11072.	3.3	30
75	Giant Switchable Rashba Effect in Oxide Heterostructures. Advanced Materials Interfaces, 2015, 2, 1400445.	3.7	29
76	Electronic Reconstruction at the Isopolar LaTiO_3 An X-Ray Photoemission and Density-Functional Theory Study. Physical Review Letters, 2014, 113, 237402.	7.8	56
77	IrRu	3.2	32
78	Anisotropic two-dimensional electron gas at SrTiO_3 (110). Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3933-3937.	7.1	99
79	Hard x-ray photoemission and density functional theory study of the internal electric field in $\text{SrTiO}_3/\text{LaAlO}_3$ oxide heterostructures. Physical Review B, 2013, 87, .	3.2	64
80	Rocksalt SnS and SnSe : Native topological crystalline insulators. Physical Review B, 2013, 88, .	3.2	104
81	Theory of spin-orbit coupling at $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces and SrTiO_3	3.2	312
82	Quantum confinement in perovskite oxide heterostructures: Tight binding instead of a nearly free electron picture. Physical Review B, 2013, 88, .	3.2	29
83	Prediction of thickness limits of ideal polar ultrathin films. Physical Review B, 2012, 85, .	3.2	36
84	Microscopic understanding of the orbital splitting and its tuning at oxide interfaces. Europhysics Letters, 2012, 99, 37011.	2.0	19
85	Electrostatic Doping of Graphene through Ultrathin Hexagonal Boron Nitride Films. Nano Letters, 2011, 11, 4631-4635.	9.1	118
86	Polarity-induced oxygen vacancies at $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2010, 82, .	3.2	124
87	Electronic-structure-induced reconstruction and magnetic ordering at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Europhysics Letters, 2008, 84, 27001.	2.0	74
88	Enhancement of polarization in a spin-orbit coupling quantum wire with a constriction. Physical Review B, 2007, 76, .	3.2	33