

Zhiming M Wang

List of Publications by Year in descending order

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48
papers

1,850
citations

304743

22
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254184

43
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all docs

50
docs citations

50
times ranked

3283
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative control of perpendicular magnetic anisotropy via crystal structure and orientation in freestanding SrRuO ₃ membranes. Npj Flexible Electronics, 2022, 6, .	10.7	21
2	Isostructural metal-insulator transition driven by dimensional-crossover in SrIrO_3 heterostructures. Physical Review Materials, 2022, 6, .	7.4	3
3	Emergence of Insulating Ferrimagnetism and Perpendicular Magnetic Anisotropy in 3d ⁴ 5d Perovskite Oxide Composite Films for Insulator Spintronics. ACS Applied Materials & Interfaces, 2022, 14, 15407-15414.	8.0	8
4	Electric Field Control of the Magnetic Weyl Fermion in an Epitaxial SrRuO ₃ (111) Thin Film. Advanced Materials, 2021, 33, e2101316.	21.0	24
5	Lateral Modulation of Magnetic Anisotropy in Tricolor 3d ⁴ 5d Oxide Superlattices. ACS Applied Electronic Materials, 2021, 3, 4210-4217.	4.3	5
6	Two-dimensional electron gas at the (001) surface of ferromagnetic EuTiO_3 . Physical Review Research, 2021, 3, .	1.0	3
7	Colossal angular magnetoresistance in the antiferromagnetic semiconductor EuTe_2 . Physical Review B, 2021, 104, .	1.2	1
8	Low-Cost, Air-Processed Quantum Dot Solar Cells via Diffusion-Controlled Synthesis. ACS Applied Materials & Interfaces, 2020, 12, 36301-36310.	8.0	9
9	Strain engineering of the charge and spin-orbital interactions in Sr ₂ IrO ₄ . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24764-24770.	7.1	19
10	Synthesis of single-crystal La _{0.67} Sr _{0.33} MnO ₃ freestanding films with different crystal-orientation. APL Materials, 2020, 8, .	5.1	31
11	Layer-by-layer epitaxial growth of monoclinic SrIrO ₃ thin films on (111)-oriented SrTiO ₃ through interface engineering. Thin Solid Films, 2020, 709, 138119.	1.8	2
12	Emergent ferromagnetism with tunable perpendicular magnetic anisotropy in short-periodic SrIrO ₃ /SrRuO ₃ superlattices. Applied Physics Letters, 2020, 116, .	3.3	13
13	Single spin-polarized Fermi surface in SrTiO_3 thin films. Physical Review Research, 2020, 2, .	3.6	5
14	Band Structure and Spin-Orbital Texture of the (111)- KTaO_3 2D Electron Gas. Advanced Electronic Materials, 2019, 5, 1800860.	5.1	37
15	Observation of a two-dimensional electron gas at CaTiO ₃ film surfaces. Applied Surface Science, 2018, 432, 41-45.	6.1	17
16	Influence of ferroelectric order on the surface electronic structure of BaTiO_3 studied by photoemission spectroscopy. Physical Review B, 2018, 98, .	1.2	1
17	Electronic structure of buried LaNiO ₃ layers in (111)-oriented LaNiO ₃ /LaMnO ₃ superlattices probed by soft x-ray ARPES. APL Materials, 2017, 5, .	5.1	9
18	Atomically Precise Lateral Modulation of a Two-Dimensional Electron Liquid in Anatase TiO ₂ Thin Films. Nano Letters, 2017, 17, 2561-2567.	9.1	28

#	ARTICLE	IF	CITATIONS
19	Resolving the Structure of a Well-Ordered Hydroxyl Overlayer on In ₂ O ₃ (111): Nanomanipulation and Theory. ACS Nano, 2017, 11, 11531-11541.	14.6	37
20	Controlled synthesis of near-infrared quantum dots for optoelectronic devices. Nanoscale, 2017, 9, 16843-16851.	5.6	17
21	Reactive molecular beam epitaxial growth and in situ photoemission spectroscopy study of iridate superlattices. AIP Advances, 2017, 7, .	1.3	4
22	Highly Stable Colloidal Giant Quantum Dots Sensitized Solar Cells. Advanced Functional Materials, 2017, 27, 1701468.	14.9	92
23	Transition from Reconstruction toward Thin Film on the (110) Surface of Strontium Titanate. Nano Letters, 2016, 16, 2407-2412.	9.1	28
24	Tailoring the nature and strength of electron-phonon interactions in the SrTiO ₃ (001) 2D electron liquid. Nature Materials, 2016, 15, 835-839.	27.5	171
25	Observation of large topologically trivial Fermi arcs in the candidate type-II Weyl semimetal WT_2 . Momentum-Resolved Electronic Structure of the High-T _c Parent Compound BaBiO ₃ . Physical Review Letters, 2016, 117, 037002.	3.2	174
26	Direct observation of the Dirac nodes lifting in semimetallic perovskite SrIrO ₃ thin films. Scientific Reports, 2016, 6, 30309.	7.8	48
27	Adsorption and incorporation of transition metals at the magnetite Fe ₃ O ₄ (001) surface. Physical Review B, 2015, 92, .	3.2	76
28	Collapse of the Mott Gap and Emergence of a Nodal Liquid in Lightly Doped Sr ₂ VO ₂ Phosphate. Physical Review Letters, 2015, 115, 176402.	7.8	140
29	Carrier Density Control of the SrTiO ₃ (001) Surface 2D Electron Gas studied by ARPES. Advanced Materials, 2015, 27, 3894-3899.	21.0	88
30	Coexistence of trapped and free excess electrons in SrTiO ₃ . Physical Review B, 2015, 91, .	11.2	83
31	Nickel-Oxide-Modified SrTiO ₃ (110)-(4 Å ⁻¹) Surfaces and Their Interaction with Water. Journal of Physical Chemistry C, 2015, 119, 20481-20487.	3.1	13
32	Point defects at cleaved Sr ₂ VO ₂ Phosphate surfaces. Physical Review B, 2014, 90, .	3.2	12
33	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
34	Vacancy clusters at domain boundaries and band bending at the SrTiO ₃ (110) surface. High Chemical Activity of a Perovskite Surface: Reaction of CO with Sr ₂ VO ₂ Phosphate. Physical Review Letters, 2014, 113, 116101.	3.2	14
35	High Chemical Activity of a Perovskite Surface: Reaction of CO with Sr ₂ VO ₂ Phosphate. Physical Review Letters, 2014, 113, 116101.	7.3	18

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37	Stabilizing Single Ni Adatoms on a Two-Dimensional Porous Titania Overlayer at the SrTiO ₃ (110) Surface. Journal of Physical Chemistry C, 2014, 118, 19904-19909.	3.1	14
38	Stoichiometry-driven switching between surface reconstructions on SrTiO ₃ (001). Surface Science, 2014, 621, L1-L4.	1.9	36
39	Water Adsorption at the Tetrahedral Titania Surface Layer of SrTiO ₃ (110)-(4 Å ⁻¹). Journal of Physical Chemistry C, 2013, 117, 26060-26069.	3.1	32
40	Strain-Induced Defect Superstructure on the $\text{SrTiO}_3(110)$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 607 Td (stretchy="false")</mml:math>	7.8	32
41	Growth of SrTiO ₃ (110) film by oxide molecular beam epitaxy with feedback control. AIP Advances, 2012, 2, 041407.	1.3	13
42	Cation stoichiometry optimization of SrTiO ₃ (110) thin films with atomic precision in homogeneous molecular beam epitaxy. Applied Physics Letters, 2012, 100, 051602. Ordered Array of Single Adatoms with Remarkable Thermal Stability<mml:math	3.3	19
43	$\text{Au}_{1-x}\text{Fe}_x\text{O}_4$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 482 Td (stretchy="false")</mml:math>	7.8	109
44	Guided growth of Ag nanoparticles on SrTiO ₃ (110) surface. Journal of Chemical Physics, 2011, 135, 144702.	3.0	13
45	Reversible Transition between Thermodynamically Stable Phases with Low Density of Oxygen Vacancies on the $\text{SrTiO}_3(110)$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 407 Td (stretchy="false")</mml:math>	7.8	30
46	Evolution of the surface structures on SrTiO ₃ $\text{SrTiO}_3(110)$ /> <mml:mrow> <mml:msub> <mml:mrow> /> <mml:mrow> <mml:mn>3</mml:mn> </mml:mrow> </mml:msub> </mml:mrow> </mml:math>(110) tuned by Ti or Sr concentration. Physical Review B, 2011, 83, .	3.2	49
47	Tuning the termination of the SrTiO ₃ (110) surface by Ar ⁺ sputtering. Applied Physics Letters, 2009, 95, 021912.	3.3	20
48	Interface structure and phase of epitaxial SrTiO ₃ (110) thin films grown directly on silicon. Applied Physics Letters, 2005, 87, 131908.	3.3	53