

Zhiming M Wang

List of Publications by Year in descending order

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48
papers

1,850
citations

304743

22
h-index

254184

43
g-index

50
all docs

50
docs citations

50
times ranked

3283
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of large topologically trivial Fermi arcs in the candidate type-II Weyl semimetal WTe_2 . Physical Review B, 2016, 94, .	3.2	174
2	Tailoring the nature and strength of electron-phonon interactions in the $\text{SrTiO}_3(001)$ 2D electron liquid. Nature Materials, 2016, 15, 835-839.	27.5	171
3	Collapse of the Mott Gap and Emergence of a Nodal Liquid in Lightly Doped Sr_2VO_4 . Ordered Array of Single Adatoms with Remarkable Thermal Stability. Physical Review B, 2015, 92, .	7.8	140
4	Ordered Array of Single Adatoms with Remarkable Thermal Stability: Au on Fe_3O_4 . Physical Review B, 2015, 92, .	7.8	109
5	Anisotropic two-dimensional electron gas at $\text{SrTiO}_3(110)$. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3933-3937.	7.1	99
6	Highly Stable Colloidal Quantum Dots Sensitized Solar Cells. Advanced Functional Materials, 2017, 27, 1701468.	14.9	92
7	Carrier Density Control of the $\text{SrTiO}_3(001)$ Surface 2D Electron Gas studied by ARPES. Advanced Materials, 2015, 27, 3894-3899.	21.0	88
8	Coexistence of trapped and free excess electrons in SrTiO_3 . Physical Review B, 2015, 91, .	11.2	88
9	Adsorption and incorporation of transition metals at the magnetite $\text{Fe}_3\text{O}_4(001)$ surface. Physical Review B, 2015, 92, .	3.2	76
10	Direct observation of the Dirac nodes lifting in semimetallic perovskite SrIrO_3 thin films. Scientific Reports, 2016, 6, 30309.	3.3	59
11	Interface structure and phase of epitaxial $\text{SrTiO}_3(110)$ thin films grown directly on silicon. Applied Physics Letters, 2005, 87, 131908.	3.3	53
12	Evolution of the surface structures on $\text{SrTiO}_3(110)$ tuned by Ti or Sr concentration. Physical Review B, 2011, 83, .	3.2	49
13	Parent Compound BaBiO_3 . Physical Review Letters, 2016, 117, 037002.	7.8	48
14	Resolving the Structure of a Well-Ordered Hydroxyl Overlayer on $\text{In}_2\text{O}_3(111)$: Nanomanipulation and Theory. ACS Nano, 2017, 11, 11531-11541.	14.6	37
15	Band Structure and Spin-Orbital Texture of the (111) TaO_3 2D Electron Gas. Advanced Electronic Materials, 2019, 5, 1800860.	5.1	37
16	Stoichiometry-driven switching between surface reconstructions on $\text{SrTiO}_3(001)$. Surface Science, 2014, 621, L1-L4.	1.9	36
17	Water Adsorption at the Tetrahedral Titania Surface Layer of $\text{SrTiO}_3(110)$ - (4 \AA^{-1}) . Journal of Physical Chemistry C, 2013, 117, 26060-26069.	3.1	32
18	Strain-Induced Defect Superstructure on the $\text{SrTiO}_3(110)$ Surface. Physical Review Letters, 2016, 117, 037002.	7.8	32

#	ARTICLE	IF	CITATIONS
19	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
20	Reversible Transition between Thermodynamically Stable Phases with Low Density of Oxygen Vacancies on the SrTiO_3 Surface. Physical Review Letters, 2014, 113, 116101.	7.8	30
21	Transition from Reconstruction toward Thin Film on the (110) Surface of Strontium Titanate. Nano Letters, 2016, 16, 2407-2412.	9.1	28
22	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
23	Electric Field Control of the Magnetic Weyl Fermion in an Epitaxial SrRuO ₃ (111) Thin Film. Advanced Materials, 2021, 33, e2101316.	21.0	24
24	Cooperative control of perpendicular magnetic anisotropy via crystal structure and orientation in freestanding SrRuO ₃ membranes. Npj Flexible Electronics, 2022, 6, .	10.7	21
25	Tuning the termination of the SrTiO ₃ (110) surface by Ar ⁺ sputtering. Applied Physics Letters, 2009, 95, 021912.	3.3	20
26	Cation stoichiometry optimization of SrTiO ₃ (110) thin films with atomic precision in homogeneous molecular beam epitaxy. Applied Physics Letters, 2012, 100, 051602.	3.3	19
27	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
28	High Chemical Activity of a Perovskite Surface: Reaction of CO with Sr_3O_7 . Physical Review Letters, 2014, 113, 116101.	7.8	18
29	Controlled synthesis of near-infrared quantum dots for optoelectronic devices. Nanoscale, 2017, 9, 16843-16851.	5.6	17
30	Observation of a two-dimensional electron gas at CaTiO ₃ film surfaces. Applied Surface Science, 2018, 432, 41-45.	6.1	17
31	Colossal angular magnetoresistance in the antiferromagnetic semiconductor EuTe_2 . Physical Review B, 2021, 104, .	3.2	16
32	Vacancy clusters at domain boundaries and band bending at the SrTiO_3 (110) surface. Physical Review B, 2014, 90, .	3.2	14
33	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
34	Guided growth of Ag nanoparticles on SrTiO ₃ (110) surface. Journal of Chemical Physics, 2011, 135, 144702.	3.0	13
35	Growth of SrTiO ₃ (110) film by oxide molecular beam epitaxy with feedback control. AIP Advances, 2012, 2, 041407.	1.3	13
36	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

#	ARTICLE	IF	CITATIONS
37	Emergent ferromagnetism with tunable perpendicular magnetic anisotropy in short-periodic SrIrO ₃ /SrRuO ₃ superlattices. Applied Physics Letters, 2020, 116, .	3.3	13
38	Point defects at cleaved SrTiO_3 surfaces. Physical Review B, 2014, 90, .	3.3	12
39	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
40	Low-Cost, Air-Processed Quantum Dot Solar Cells via Diffusion-Controlled Synthesis. ACS Applied Materials & Interfaces, 2020, 12, 36301-36310.	8.0	9
41	Emergence of Insulating Ferrimagnetism and Perpendicular Magnetic Anisotropy in 3d-5d Perovskite Oxide Composite Films for Insulator Spintronics. ACS Applied Materials & Interfaces, 2022, 14, 15407-15414.	8.0	8
42	Influence of ferroelectric order on the surface electronic structure of BaTiO_3 studied by photoemission spectroscopy. Physical Review B, 2018, 98, .	8.0	6
43	Lateral Modulation of Magnetic Anisotropy in Tricolor 3d-5d Oxide Superlattices. ACS Applied Electronic Materials, 2021, 3, 4210-4217.	4.3	5
44	Single spin-polarized Fermi surface in SrTiO_3 thin films. Physical Review Research, 2020, 2, .	3.6	5
45	Two-dimensional electron gas at the (001) surface of ferromagnetic EuTiO_3 . Physical Review Research, 2021, 3, .	3.6	3
46	Reactive molecular beam epitaxial growth and in situ photoemission spectroscopy study of iridate superlattices. AIP Advances, 2017, 7, .	1.3	4
47	Isostructural metal-insulator transition driven by dimensional-crossover in SrIrO_3 heterostructures. Physical Review Materials, 2022, 6, .	1.4	3
48	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