

# Xuetao Zhu

## List of Publications by Year in descending order

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97  
papers

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citations

201674

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155660

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g-index

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98  
docs citations

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times ranked

5287  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen-Assisted Chemical Vapor Deposition Growth of Large Single-Crystal and High-Quality Monolayer MoS <sub>2</sub> . Journal of the American Chemical Society, 2015, 137, 15632-15635.	13.7	301
2	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
3	Surface Charge Ordering Transition: $\hat{L}\pm$ Phase of Sn/Ge(111). Physical Review Letters, 1997, 79, 2859-2862.	7.8	219
4	Ferromagnetism Stabilized by Lattice Distortion at the Surface of the p-Wave Superconductor Sr <sub>2</sub> RuO <sub>4</sub> . Science, 2000, 289, 746-748.	12.6	211
5	Surface segregation and restructuring of colossal-magneto-resistant manganese perovskites La <sub>0.65</sub> Sr <sub>0.35</sub> MnO <sub>3</sub> . Physical Review B, 2000, 62, R14629-R14632.	3.2	163
6	Electron-Phonon Coupling on the Surface of the Topological Insulator $\text{Bi}_2\text{Se}_3$ from Surface-Phonon Dispersion Measurements. Physical Review Letters, 2012, 108, 185501.	7.8	127
7	Foundations of Plasmonics. Advances in Physics, 2011, 60, 799-898.	14.4	121
8	Anisotropic Two-Dimensional Friedel Oscillations. Physical Review Letters, 1997, 79, 265-268.	7.8	93
9	Interaction of Phonons and Dirac Fermions on the Surface of $\text{Bi}_2\text{Se}_3$ : A Strong Kohn Anomaly. Physical Review Letters, 2011, 107, 186102.	7.8	86
10	Evidence of cooperative effect on the enhanced superconducting transition temperature at the FeSe/SrTiO <sub>3</sub> interface. Nature Communications, 2019, 10, 758.	12.8	86
11	Origin of the metal-insulator transition in ultrathin films of $\text{LaAlO}_3/\text{SrTiO}_3$ . Physical Review Letters, 2009, 102, 077202.	3.2	80
12	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
13	Role of $\text{SrTiO}_3$ penetrating into thin FeSe films in the enhancement of superconductivity. Physical Review B, 2016, 94, .	3.2	74
14	Nontrivial Berry phase in magnetic BaMnSb <sub>2</sub> semimetal. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6256-6261.	7.1	71
15	Surface charge ordering transition in $\text{La}_{0.55}\text{Sr}_{0.45}\text{MnO}_3$ . Physical Review Letters, 2009, 102, 077202.	3.2	66
16	Misconceptions associated with the origin of charge density waves. Advances in Physics: X, 2017, 2, 622-640.	4.1	61
17	Enhanced Superconducting State in $\text{FeSe}/\text{SrTiO}_3$ by a Dynamic Interfacial Polaron Mechanism. Physical Review Letters, 2019, 122, 066802.	7.8	48
18	Magnetic coupling in the insulating and metallic ferromagnetic $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ . Physical Review B, 2001, 64, .	3.2	43

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Anomalous Acoustic Plasmon Mode from Topologically Protected States. Physical Review Letters, 2017, 119, 136805.	7.8	41
22	High resolution electron energy loss spectroscopy with two-dimensional energy and momentum mapping. Review of Scientific Instruments, 2015, 86, 083902.	1.3	36
23	Interface-induced magnetic polar metal phase in complex oxides. Nature Communications, 2019, 10, 5248.	12.8	35
24	Polar distortion in ultrathin BaTiO <sub>3</sub> films studied by in situ LEED. Physical Review B, 2008, 77, . Structure-property coupling in Sr	3.2	29
25			

#	ARTICLE	IF	CITATIONS
37	Surface phases of the transition-metal dichalcogenide IrTe <sub>2</sub> . Physical Review B, 2017, 95, .	3.2	20
38	Rumpling and Enhanced Covalency at the SrTiO <sub>3</sub> (001) Surface. Journal of Physical Chemistry C, 2019, 123, 8086-8091.	3.1	20
39	Evidence for topological semimetallicity in a chain-compound TaSe <sub>3</sub> . Npj Quantum Materials, 2020, 5, .	5.2	20
40	Surface and bulk structural properties of single-crystalline $\text{Sr}_3\text{VO}_7$ . Physical Review B, 2010, 81, .	3.2	19
41	Emerging single-phase state in small manganite nanodisks. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9228-9231.	7.1	18
42	Observation of large exchange bias and topological Hall effect in manganese nitride films. Applied Physics Letters, 2018, 112, .	3.3	18
43	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
44	Surface structural analysis of the layered perovskite Sr <sub>2</sub> RuO <sub>4</sub> by LEED(IV). Physical Review B, 2002, 65, .	3.2	17
45	A spectroscopic view of electron-phonon coupling at metal surfaces. Physica Status Solidi (B): Basic Research, 2004, 241, 2345-2352.	1.5	17
46	Realization of In-plane Junctions with Continuous Lattice of a Homogeneous Material. Advanced Materials, 2018, 30, e1802065.	21.0	17
47	Role of disorder and correlations in the metal-insulator transition in ultrathin $\text{SrVO}_3$ films. Physical Review B, 2019, 100, .	3.2	17
48	Surface and interface properties of $\text{LaNiO}_3$ . Physical Review B, 2017, 95, .	2.4	16
49	Manipulating electronic phase separation in strongly correlated oxides with an ordered array of antidots. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9558-9562.	7.1	15
50	Manipulating the polar mismatch at the $\text{LaNiO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2017, 95, .	3.2	14
51	Direct Determination of the Electron-Phonon Coupling Matrix Element in a Correlated System. Physical Review Letters, 2010, 105, 256402.	7.8	14
52	Anomalously deep polarization in $\text{SrTiO}_3$ (001) interfaced with an epitaxial ultrathin manganite film. Physical Review B, 2016, 94, .	3.2	14
53	Three dimensional band-filling control of complex oxides triggered by interfacial electron transfer. Nature Communications, 2021, 12, 2447.	12.8	14
54	Complex structural phase transition in a defect-populated two-dimensional system. Physical Review B, 2001, 64, .	3.2	12

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55	Coupled structural and magnetic antiphase domain walls on BaFe <sub>2</sub> As <sub>2</sub> . Physical Review B, 2013, 86, .	3.2	12
56	Electron-phonon coupling in a system with broken symmetry: Surface of BeO. Physical Review B, 2015, 92, .	3.2	10
57	Superstructures at Te/Au(111) interface evolving upon increasing Te coverage. Surface Science, 2018, 669, 198-203.	1.9	12
58	Superconductivity enhancement in FeSe/SrTiO <sub>3</sub> : a review from the perspective of electron-phonon coupling. Journal of Physics Condensed Matter, 2020, 32, 343003.	1.8	12
59	Observation of Nodal-Line Plasmons in ZrSiS. Physical Review Letters, 2021, 127, 186802.	7.8	12
60	Anisotropic electron-phonon coupling on a two-dimensional circular Fermi contour. Physical Review B, 2009, 80, .	3.2	11
61	Observing a previously hidden structural-phase transition onset through heteroepitaxial cap response. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4141-4146.	7.1	11
62	Surface lattice dynamics of layered transition metal oxides: Sr <sub>2</sub> RuO <sub>4</sub> and La <sub>0.5</sub> Sr <sub>1.5</sub> MnO <sub>4</sub> . Physical Review B, 2003, 67, .	3.2	10
63	Doping and dimensionality effects on the core-level spectra of layered ruthenates. Physical Review B, 2010, 81, .	3.2	10
64	Tuning properties of columnar nanocomposite oxides. Applied Physics Letters, 2013, 103, 043112.	3.3	10
65	Superconducting transition of FeSe / SrTiO <sub>3</sub> induced by adsorption of semiconducting organic molecules. Physical Review B, 2017, 95, .	3.2	10
66	Topologically nontrivial interband plasmons in type-II Weyl semimetal MoTe <sub>2</sub> . New Journal of Physics, 2020, 22, 103032.	2.9	10
67	$\tilde{\Gamma}$ -Doping of oxygen vacancies dictated by thermodynamics in epitaxial SrTiO <sub>3</sub> films. AIP Advances, 2017, 7, .	1.3	9
68	Anomalous magnetic behavior of Ba <sub>2</sub> CoO <sub>4</sub> tetrahedra. Physical Review B, 2019, 99, .	3.2	8
69	Electronic transport through <i>in situ</i> grown ultrathin BaTiO <sub>3</sub> films. Applied Physics Letters, 2009, 95, 032903.	3.3	7
70	Role of Antiferromagnetic Ordering in the (1 $\bar{1}$ -2) Surface Reconstruction of Ca(Fe <sub>1-x</sub> Cox) <sub>2</sub> As <sub>2</sub> . Physical Review Letters, 2014, 112, 077205.	7.8	7
71	Anisotropic field-induced melting of orbital ordered structure in Pr <sub>0.6</sub> Ca <sub>0.4</sub> MnO <sub>3</sub> . Physical Review B, 2015, 91, .	3.2	7
72	Hidden phases revealed at the surface of double-layered Sr <sub>3</sub> (Ru <sub>1-x</sub> Mnx) <sub>2</sub> O <sub>7</sub> . Physical Review B, 2016, 94, .	3.2	7

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73	Predicting hidden bulk phases from surface phases in bilayered Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> . Scientific Reports, 2017, 7, 10265.	3.3	7
74	Temperature-dependent anomalies in the structure of the (001) surface of LiCu <sub>2</sub> O <sub>2</sub> . Surface Science, 2011, 605, 376-382.	1.9	6
75	Polar compensation at the surface of $\text{SrTiO}_3(111)$ . Physical Review B, 2016, 93, .	3.2	6
76	Interrogating the superconductor Ca <sub>10</sub> (Pt <sub>4</sub> As <sub>8</sub> )(Fe <sub>2</sub> <sup>x</sup> PtxAs <sub>2</sub> ) <sub>5</sub> Layer-by-layer. Scientific Reports, 2016, 6, 35365.	3.3	6
77	Lanthanum-induced quasi-one-dimensional reconstructions on Si(111). Surface Science, 2018, 674, 40-44.	1.9	6
78	Tuning of the oxygen vacancies in LaCoO <sub>3</sub> films at the atomic scale. Applied Physics Letters, 2021, 118, .	3.3	6
79	Surface dynamics of the layered ruthenate Ca <sub>1.9</sub> Sr <sub>0.1</sub> RuO <sub>4</sub> . Physica Status Solidi (B): Basic Research, 2004, 241, 2363-2366.	1.5	5
80	Electron-phonon coupling and Kohn anomaly due to floating two-dimensional electronic bands on the surface of ZrSiS. Physical Review B, 2019, 100, .	3.2	5
81	Probing the Interfacial Symmetry Using Rotational Second-Harmonic Generation in Oxide Heterostructures. Journal of Physical Chemistry C, 2019, 123, 23000-23006.	3.1	5
82	Superconductivity of the FeSe/SrTiO <sub>3</sub> Interface in View of BCS $\leftrightarrow$ BEC Crossover*. Chinese Physics Letters, 2019, 36, 107404.	3.3	5
83	Reemergence of low-temperature nonmetallic phase of $\text{LaSr}_2\text{Cu}_2\text{O}_7$ . Physical Review B, 2019, 100, .	2.4	5
84	Exchange bias and inverted hysteresis in monolithic oxide films by structural gradient. Physical Review Research, 2019, 1, .	3.6	5
85	Formation of dislocations via misfit strain across interfaces in epitaxial BaTiO <sub>3</sub> and SrIrO <sub>3</sub> heterostructures. Journal of Physics Condensed Matter, 2021, 33, 275003.	1.8	4
86	Geometric effect of high-resolution electron energy loss spectroscopy on the identification of plasmons: An example of graphene. Surface Science, 2022, 721, 122067.	1.9	4
87	Surface electronic band structure and temperature dependence of the surface state at $\text{MgO}(10\bar{1}0)$ surface. Physical Review B, 2009, 80, .	3.2	3
88	Atomically imaged crystal structure and normal-state properties of superconducting Ca <sub>10</sub> Pt <sub>4</sub> As <sub>8</sub> ((Fe <sub>1</sub> <sup>x</sup> Ptx) <sub>2</sub> As <sub>2</sub> ) <sub>5</sub> . Physical Review B, 2019, 100, .	3.2	3
89	Investigation of the structural and dynamical properties of the (0 0 1) surface of LiCu <sub>2</sub> O <sub>2</sub> . Surface Science, 2010, 604, 692-700.	1.9	2
90	Dielectric and insulating properties of SrTiO <sub>3</sub> /Si heterostructure controlled by cation concentration. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2404-2409.	5.1	2

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91	Surface Defect-mediated Reactivity of Au/TiO <sub>2</sub> (110). Materials Research Society Symposia Proceedings, 2005, 876, 1.	0.1	1
92	Interfacial effects on the superconducting properties of $\text{LaS}_i$ films on Si(111). Physical Review B, 2019, 100, 120501.	3.2	1
93	critical point in $\text{Ca}_x\text{C}_y$ Physical Review B, 2009, 79, 040501.	3.2	0
94	SURFACES OF TRANSITION-METAL COMPOUNDS: THE INTERPLAY BETWEEN STRUCTURE AND FUNCTIONALITY. , 2013, , 215-267.		0
95	Collective excitations and quantum size effects on the surfaces of Pb(111) films: An experimental study*. Chinese Physics B, 2021, 30, 077308.	1.4	0
96	Surface Fermi contours and phonon anomalies at the surface of the random alloy. Journal of Physics Communications, 2021, 5, 075008.	1.2	0
97	Existence of interfacial polaronic plasmon: A comparative study between $\text{FeSe}$ and $\text{CoSe}$ Physical Review B, 2022, 105, 120501.	3.2	0