

# Xuetao Zhu

## List of Publications by Year in descending order

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97

papers

3,253

citations

201674

27

h-index

155660

55

g-index

98

all docs

98

docs citations

98

times ranked

5287

citing authors

#	ARTICLE	IF	CITATIONS
1	Existence of interfacial polaronic plasmon: A comparative study between $\text{FeSe}$ and $\text{CoSe}$ . <i>Physical Review B</i> , 2022, 105, .	3.2	0
2	Geometric effect of high-resolution electron energy loss spectroscopy on the identification of plasmons: An example of graphene. <i>Surface Science</i> , 2022, 721, 122067.	1.9	4
3	Tuning of the oxygen vacancies in $\text{LaCoO}_3$ films at the atomic scale. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	6
4	Three dimensional band-filling control of complex oxides triggered by interfacial electron transfer. <i>Nature Communications</i> , 2021, 12, 2447.	12.8	14
5	Formation of dislocations via misfit strain across interfaces in epitaxial $\text{BaTiO}_3$ and $\text{SrIrO}_3$ heterostructures. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 275003.	1.8	4
6	Collective excitations and quantum size effects on the surfaces of $\text{Pb}(111)$ films: An experimental study*. <i>Chinese Physics B</i> , 2021, 30, 077308.	1.4	0
7	Surface Fermi contours and phonon anomalies at the surface of the random alloy. <i>Journal of Physics Communications</i> , 2021, 5, 075008.	1.2	0
8	High temperature superconductivity at $\text{FeSe}/\text{LaFeO}_3$ interface. <i>Nature Communications</i> , 2021, 12, 5926.	12.8	21
9	Observation of Nodal-Line Plasmons in $\text{ZrSiS}$ . <i>Physical Review Letters</i> , 2021, 127, 186802.	7.8	12
10	Evidence for topological semimetallicity in a chain-compound $\text{TaSe}_3$ . <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	20
11	Superconductivity enhancement in $\text{FeSe}/\text{SrTiO}_3$ : a review from the perspective of electron-phonon coupling. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 343003.	1.8	12
12	Real-space investigation of the charge density wave in monolayer with broken rotational and mirror symmetries. <i>Physical Review B</i> , 2020, 101, .	1.8	12
13	Topologically nontrivial interband plasmons in type-II Weyl semimetal $\text{MoTe}_2$ . <i>New Journal of Physics</i> , 2020, 22, 103032.	2.9	10
14	Interfacial effects on the superconducting properties of $\text{LaS}$ films on $\text{Si}(111)$ . <i>Physical Review B</i> , 2019, 100, .	3.2	1
15	Atomically imaged crystal structure and normal-state properties of superconducting $\text{Ca}_{10}\text{Pt}_4\text{As}_8((\text{Fe}_{1-x}\text{Pt}_x)\text{As}_2)_5$ . <i>Physical Review B</i> , 2019, 100, .	3.2	3
16	Role of disorder and correlations in the metal-insulator transition in ultrathin $\text{SrVO}_3$ films. <i>Physical Review B</i> , 2019, 100, .	3.2	17
17	Electron-phonon coupling and Kohn anomaly due to floating two-dimensional electronic bands on the surface of $\text{ZrSiS}$ . <i>Physical Review B</i> , 2019, 100, .	3.2	5
18	Probing the Interfacial Symmetry Using Rotational Second-Harmonic Generation in Oxide Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23000-23006.	3.1	5

#	ARTICLE		IF	CITATIONS
19	Atomic-scale determination of spontaneous magnetic reversal in oxide heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10309-10316.		7.1	18
20	Fermions and bosons in nonsymmorphic $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{PdSb} \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle 2 \langle / \text{mml:msub} \rangle \langle / \text{mml:math}$ with sixfold degeneracy. <i>Physical Review B</i> , 2019, 99, .			
21	Flat AgTe Honeycomb Monolayer on Ag(111). <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1866-1871.		4.6	28
22	Anomalous magnetic behavior of $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Ba} \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math}$ with isolated $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{CoO} \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math}$ tetrahedra. <i>Physical Review B</i> , 2019, 99, .	3.2	8	
23	Observing a previously hidden structural-phase transition onset through heteroepitaxial cap response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4141-4146.		7.1	11
24	Enhanced Superconducting State in $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{FeSe} \langle / \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle / \text{mml:mo} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{SrTiO}_3 \langle / \text{mml:mi} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math}$ by a Dynamic Interfacial Polaron Mechanism. <i>Physical Review Letters</i> , 2019, 122, 066802.			
25	Evidence of cooperative effect on the enhanced superconducting transition temperature at the FeSe/SrTiO <sub>3</sub> interface. <i>Nature Communications</i> , 2019, 10, 758.		12.8	86
26	Raman interrogation of the ferroelectric phase transition in polar metal LiOsO <sub>3</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20322-20327.		7.1	21
27	Superconductivity of the FeSe/SrTiO <sub>3</sub> Interface in View of BCSâ€“BEC Crossover*. <i>Chinese Physics Letters</i> , 2019, 36, 107404.		3.3	5
28	Interface-induced magnetic polar metal phase in complex oxides. <i>Nature Communications</i> , 2019, 10, 5248.		12.8	35
29	Rumpling and Enhanced Covalency at the SrTiO <sub>3</sub> (001) Surface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8086-8091.		3.1	20
30	Surface and interface properties of $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{L} \langle / \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{a} \langle / \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \langle / \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{S} \langle / \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{r} \langle / \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle / \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \langle / \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math}$			
31	Exchange bias and inverted hysteresis in monolithic oxide films by structural gradient. <i>Physical Review Research</i> , 2019, 1, .		3.6	5
32	Lanthanum-induced quasi-one-dimensional reconstructions on Si(111). <i>Surface Science</i> , 2018, 674, 40-44.		1.9	6
33	Lattice dynamics of ultrathin FeSe films on $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{SrTiO}_3 \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math}$ . <i>Physical Review B</i> , 2018, 97, .			
34	Superstructures at Te/Au(111) interface evolving upon increasing Te coverage. <i>Surface Science</i> , 2018, 669, 198-203.		1.9	12
35	Observation of large exchange bias and topological Hall effect in manganese nitride films. <i>Applied Physics Letters</i> , 2018, 112, .		3.3	18
36	Designing antiphase boundaries by atomic control of heterointerfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9485-9490.		7.1	43

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37	Realization of In-plane $n$ Junctions with Continuous Lattice of a Homogeneous Material. <i>Advanced Materials</i> , 2018, 30, e1802065.	21.0	17
38	Nontrivial Berry phase in magnetic BaMnSb <sub>2</sub> semimetal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6256-6261.	7.1	71
39	Interface-induced multiferroism by design in complex oxide superlattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5062-E5069.	7.1	42
40	Surface phases of the transition-metal dichalcogenide IrTe <sub>2</sub> . <i>Physical Review B</i> , 2017, 95, .	3.2	20
41	Anomalous Acoustic Plasmon Mode from Topologically Protected States. <i>Physical Review Letters</i> , 2017, 119, 136805.	7.8	41
42	Predicting hidden bulk phases from surface phases in bilayered Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> . <i>Scientific Reports</i> , 2017, 7, 10265.	3.3	7
43	Misconceptions associated with the origin of charge density waves. <i>Advances in Physics: X</i> , 2017, 2, 622-640.	4.1	61
44	Superconducting transition of FeSe / SrTiO <sub>3</sub> induced by adsorption of semiconducting organic molecules. <i>Physical Review B</i> , 2017, 95, .	3.2	10
45	Manipulating the polar mismatch at the LaNi <sub>3</sub> -SrTi <sub>2</sub> interface. <i>Physical Review B</i> , 2017, 95, .	3.2	10
46	<i>i</i> -Doping of oxygen vacancies dictated by thermodynamics in epitaxial SrTiO <sub>3</sub> films. <i>AIP Advances</i> , 2017, 7, .	1.3	9
47	Reentrance of low-temperature superconducting phase of SrTiO <sub>3</sub> . <i>Physical Review B</i> , 2017, 95, .	3.2	10
48	Emerging single-phase state in small manganite nanodisks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9228-9231.	7.1	18
49	Role of SrTiO <sub>3</sub> penetrating into thin FeSe films in the enhancement of superconductivity. <i>Physical Review B</i> , 2016, 94, .	3.2	6
50	Polar compensation at the surface of SrTi <sub>2</sub> . <i>Physical Review B</i> , 2016, 93, .	3.2	6
51	Anomalously deep polarization in SrTiO <sub>3</sub> interfaced with an epitaxial ultrathin manganite film. <i>Physical Review B</i> , 2016, 94, .	3.2	14
52	Hidden phases revealed at the surface of double-layered Sr <sub>3</sub> (Ru <sub>1-x</sub> Mnx)O <sub>7</sub> . <i>Physical Review B</i> , 2016, 94, .	3.2	7
53	Interrogating the superconductor Ca <sub>10</sub> (Pt <sub>4</sub> As <sub>8</sub> )(Fe <sub>2-x</sub> Pt <sub>x</sub> As <sub>2</sub> ) <sub>5</sub> Layer-by-layer. <i>Scientific Reports</i> , 2016, 6, 35365.	3.3	6
54	Giant magneto-optical Raman effect in a layered transition metal compound. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2349-2353.	7.1	24

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55	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
56	Electron-phonon coupling in a system with broken symmetry: Surface of $\text{Be}_{\frac{3}{2}0001}$ transition in ultrathin films of $\text{S}_{\frac{3}{2}\overline{1}001}$ . Physical Review B, 2015, 92, .		
57	$\text{a}_{\frac{3}{2}\overline{1}001}$ transition in ultrathin films of $\text{S}_{\frac{3}{2}\overline{1}001}$ .		
58	High resolution electron energy loss spectroscopy with two-dimensional energy and momentum mapping. Review of Scientific Instruments, 2015, 86, 083902.	1.3	36
59	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
60	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
61	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
62	Role of Antiferromagnetic Ordering in the (1 Å–2) Surface Reconstruction of Ca(Fe <sub>1-x</sub> Cox)As <sub>2</sub> . Physical Review Letters, 2014, 112, 077205.	7.8	7
63	Reconstructions on SrTiO <sub>3</sub> (111) surface tuned by Ti/Sr deposition. Surface Science, 2013, 614, 38-45.	1.9	28
64	Tuning properties of columnar nanocomposite oxides. Applied Physics Letters, 2013, 103, 043112.	3.3	10
65	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
66	SURFACES OF TRANSITION-METAL COMPOUNDS: THE INTERPLAY BETWEEN STRUCTURE AND FUNCTIONALITY. , 2013, , 215-267.	0	
67	Single-Orbital Type Antiferromagnetism in Mn-Substituted Sr <sub>1-x</sub> Mn <sub>x</sub> Fe <sub>2</sub> O <sub>3</sub> . Coupled Structural and Magnetic Antiphase Domain Walls on BaFe <sub>2</sub> O <sub>3</sub> Surface. Physical Review B, 2013, 87, 014419.	3.2	26
68	As <sub>2</sub> O <sub>3</sub> As <sub>2</sub> S <sub>3</sub> Nanoparticles: A Strong Kohn Anomaly. Physical Review Letters, 2012, 108, 185501.	3.2	12
69	Electron-Phonon Coupling on the Surface of the Topological Insulator $\text{Bi}_{\frac{1}{2}\overline{1}001}$ from Surface-Phonon Dispersion Measurements. Physical Review Letters, 2012, 108, 185501.	7.8	127
70	Interaction of Phonons and Dirac Fermions on the Surface of $\text{Bi}_{\frac{1}{2}\overline{1}001}$ . A Strong Kohn Anomaly. Physical Review Letters, 2011, 107, 186102.	7.8	86
71	Se <sub>2</sub> and $\text{Se}_{\frac{1}{2}\overline{1}001}$ on the Surface of $\text{Bi}_{\frac{1}{2}\overline{1}001}$ . Foundations of Plasmonics. Advances in Physics, 2011, 60, 799-898.	3.2	66
72	Foundations of Plasmonics. Advances in Physics, 2011, 60, 799-898.	14.4	121

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73	Temperature-dependent anomalies in the structure of the (001) surface of LiCu <sub>2</sub> O <sub>2</sub> . <i>Surface Science</i> , 2011, 605, 376-382. Structure-property coupling in Sr $\times$ Li <sub>1-x</sub> Cu <sub>2</sub> O <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , 2011, 184, 270-275.	1.9	6
74	[REDACTED]		

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91	Thermal expansion at a metal surface: A study of Mg(0001) and Be(101̄0). Physical Review B, 2002, 66, .	3.2	22	
92	Magnetic coupling in the insulating and metallic ferromagnetic La <sub>1-x</sub> CaxMnO <sub>3</sub> . Physical Review B, 2001, 64, .	3.2	43	
93	Complex structural phase transition in a defect-populated two-dimensional system. Physical Review B, 2001, 64, .	3.2	12	
94	Surface segregation and restructuring of colossal-magnetoresistant 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	
95	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	
96	Surface Charge Ordering Transition: ±Phase of Sn/Ge(111). Physical Review Letters, 1997, 79, 2859-2862.	7.8	219	
97	Anisotropic Two-Dimensional Friedel Oscillations. Physical Review Letters, 1997, 79, 265-268.	7.8	93	