

# Feizhou He

## List of Publications by Year in descending order

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61  
papers

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times ranked

4345  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Range Incommensurate Charge Fluctuations in $(Y,Nd)Ba_2Cu_3O_{6+x}$ . <i>Science</i> , 2012, 337, 821-825.	12.6	938
2	Charge Order Driven by Fermi-Arc Instability in $Bi_2Sr_2LaCuO_{6+\delta}$ . <i>Science</i> , 2014, 343, 390-392.	12.6	512
3	Distinct Charge Orders in the Planes and Chains of Orthorhombically Ordered $YBa_2Cu_3O_{6+x}$ Superconductors Identified by Resonant Elastic X-ray Scattering. <i>Physical Review Letters</i> , 2012, 109, 167001.	7.8	254
4	Symmetry of charge order in cuprates. <i>Nature Materials</i> , 2015, 14, 796-800.	27.5	195
5	Charge ordering in the electron-doped superconductor $Nd_2CeO_{6+x}$ CuO. <i>Science</i> , 2015, 347, 282-285.	12.6	182
6	Extreme mobility enhancement of two-dimensional electron gases at oxide interfaces by charge-transfer-induced modulation doping. <i>Nature Materials</i> , 2015, 14, 801-806.	27.5	174
7	Strain-Induced Spin States in Atomically Ordered Cobaltites. <i>Nano Letters</i> , 2012, 12, 4966-4970.	9.1	160
8	Broken translational and rotational symmetry via charge stripe order in underdoped $YBa_2Cu_3O_{6+x}$ . <i>Science</i> , 2015, 347, 1335-1339.	12.6	149
9	Perovskite nickelates as electric-field sensors in salt water. <i>Nature</i> , 2018, 553, 68-72.	27.8	146
10	Strain Phase Diagram and Domain Orientation in $SrTiO_3$ Thin Films. <i>Physical Review Letters</i> , 2005, 94, 176101.	7.8	78
11	Structural phase transition in epitaxial perovskite films. <i>Physical Review B</i> , 2004, 70, .	3.2	76
12	Electronic transitions in strained $SmNiO_3$ thin films. <i>APL Materials</i> , 2014, 2, 116110.	5.1	76
13	Carrier localization in perovskite nickelates from oxygen vacancies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21992-21997.	7.1	71
14	Doping-dependent charge order correlations in electron-doped cuprates. <i>Science Advances</i> , 2016, 2, e1600782.	10.3	65
15	Synchrotron x-ray scattering study of charge-density-wave order in $HgBa_2CuO_{2-x}$ . <i>Physical Review B</i> , 2017, 96, .	7.8	62
16	Nematicity in stripe-ordered cuprates probed via resonant x-ray scattering. <i>Science</i> , 2016, 351, 576-578.	12.6	61
17	Element Specific Monolayer Depth Profiling. <i>Advanced Materials</i> , 2014, 26, 6554-6559.	21.0	58
18	Tailoring the electronic transitions of $NdNiO_3$ films through (111) oriented interfaces. <i>APL Materials</i> , 2015, 3, 062506.	5.1	57

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19	Spin-orbit phase behavior of $\text{Na}_2\text{Co}_2\text{O}_7$ at low temperatures. <i>Physical Review B</i> , 2021, 103, .	19.2	49
20	Impact of Quenched Oxygen Disorder on Charge Density Wave Order in $\text{YBa}_2\text{Cu}_3\text{O}_{6-x}$ . <i>Physical Review Letters</i> , 2014, 113, 107002.	18.8	48
21	Orbital symmetry of charge-density-wave order in $\text{La}_{1.875}\text{Ba}_{0.125}\text{CuO}_4$ and $\text{YBa}_2\text{Cu}_3\text{O}_{6.67}$ . <i>Nature Materials</i> , 2016, 15, 616-620.	27.5	45
22	An in-vacuum diffractometer for resonant elastic soft x-ray scattering. <i>Review of Scientific Instruments</i> , 2011, 82, 073104.	1.3	44
23	Complex magnetic order in nickelate slabs. <i>Nature Physics</i> , 2018, 14, 1097-1102.	16.7	37
24	Lattice strain in epitaxial $\text{BaTiO}_3$ thin films. <i>Applied Physics Letters</i> , 2006, 88, 152908.	3.3	34
25	Stress induced monoclinic phase in epitaxial $\text{BaTiO}_3$ on $\text{MgO}$ . <i>Journal of Applied Physics</i> , 2006, 99, 104103.	2.5	32
26	Resonant X-Ray Scattering Measurements of a Spatial Modulation of the $\text{Cu}^{2+}$ and $\text{O}^{2-}$ Occupancies in Stripe-Ordered $\text{La}_{1-x}\text{Sr}_x\text{CuO}_2$ . <i>Physical Review Letters</i> , 2001, 86, 077001.	7.8	32
27	Energies in Stripe-Ordered $\text{La}_{1-x}\text{Sr}_x\text{CuO}_2$ . <i>Physical Review Letters</i> , 2001, 86, 077001.	3.2	28
28	Anomalous phase transition in strained $\text{SrTiO}_3$ thin films. <i>Applied Physics Letters</i> , 2003, 83, 123-125.	3.3	27
29	Valence-state reflectometry of complex oxide heterointerfaces. <i>Npj Quantum Materials</i> , 2016, 1, .	5.2	23
30	Structure and tribological property of $\text{B}_2$ -based approximants. <i>Bulletin of Materials Science</i> , 1999, 22, 465-472.	1.7	22
31	Electronic depth profiles with atomic layer resolution from resonant soft x-ray reflectivity. <i>New Journal of Physics</i> , 2015, 17, 083046.	2.9	22
32	Tuning the Two-Dimensional Electron Liquid at Oxide Interfaces by Buffer-Layer-Engineered Redox Reactions. <i>Nano Letters</i> , 2017, 17, 7062-7066.	9.1	22
33	Enhanced charge density wave coherence in a light-quenched, high-temperature superconductor. <i>Science</i> , 2022, 376, 860-864.	12.6	22
34	Surface-enhanced charge-density-wave instability in underdoped $\text{Bi}_2\text{Sr}_{2-x}\text{La}_x\text{CuO}_6$ . <i>Nature Communications</i> , 2013, 4, 1977.	12.8	21
35	Bond order and the role of ligand states in stripe-modulated $\text{IrTe}_2$ . <i>Physical Review B</i> , 2014, 90, .	3.2	21
36	Achieving a high magnetization in sub-nanostructured magnetite films by spin-flipping of tetrahedral $\text{Fe}^{3+}$ cations. <i>Nano Research</i> , 2015, 8, 2935-2945.	10.4	21

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37	Evolution of charge order topology across a magnetic phase transition in cuprate superconductors. Nature Physics, 2019, 15, 335-340.	16.7	21
38	Dynamic electron correlations with charge order wavelength along all directions in the copper oxide plane. Nature Communications, 2021, 12, 597.	12.8	21
39	Vanishing nematic order beyond the pseudogap phase in overdoped cuprate superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	19
40	Anomalous spectral-weight transfers unraveling oxygen screening and electronic correlations in the insulator-metal transition of $\text{VO}_2$ . Physical Review B, 2015, 91, .	3.2	16
41	Sudden Collapse of Magnetic Order in Oxygen-Deficient Nickelate Films. Physical Review Letters, 2021, 126, 187602.	7.8	16
42	Chemical and valence reconstruction at the surface of $\text{SmB}_6$ by means of resonant soft x-ray reflectometry. Physical Review B, 2018, 97, .	3.2	15
43	Single-crystalline epitaxial TiO film: A metal and superconductor, similar to Ti metal. Science Advances, 2021, 7, .	10.3	14
44	Multiple relaxation mechanisms in $\text{SrTiO}_3/\text{SrRuO}_3$ heterostructures. Applied Physics Letters, 2004, 84, 4848-4850.	3.3	13
45	Orbital symmetries of charge density wave order in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ . Science Advances, 2020, 6, .	10.3	9
46	Epitaxial growth of perovskite $\text{SrBiO}_3$ film on $\text{SrTiO}_3$ by oxide molecular beam epitaxy. Physical Review Materials, 2019, 3, .	2.4	9
47	CLS ID-10 chicane configuration: From Simple Sharing to extended performance with high-speed polarization switching. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 103-106.	1.6	8
48	Revealing orbital and magnetic phase transitions in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ epitaxial thin films by resonant soft x-ray scattering. New Journal of Physics, 2014, 16, 033006.	2.9	8
49	Effect of Pt substitution on the electronic structure of $\text{AuTe}_2$ . Physical Review B, 2014, 90, .	3.2	8
50	Commensurate versus incommensurate charge ordering near the superconducting dome in $\text{Ir}_{1-x}\text{Sr}_x\text{NiO}_2$ revealed by resonant x-ray scattering. Physical Review B, 2018, 97, .	3.2	8
51	Investigations of mechanical vibrations for beamlines at the Canadian Light Source. Journal of Synchrotron Radiation, 2011, 18, 109-116.	2.4	7
52	Response to Comment on "Broken translational and rotational symmetry via charge stripe order in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{6+y}$ ". Science, 2016, 351, 235-235.	12.6	7
53	Resonant Soft X-ray Reflectometry and Diffraction Studies of Emergent Phenomena in Oxide Heterostructures. Synchrotron Radiation News, 2020, 33, 20-24.	0.8	7
54	Intertwined Spin and Orbital Density Waves in $\text{MnP}$ Uncovered by Resonant Soft X-Ray Scattering. Physical Review X, 2019, 9, .	8.9	6

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55	Large response of charge stripes to uniaxial stress in $\text{La}_{1-x}\text{Pr}_x\text{NiO}_3$ . Physical Review Research, 2021, 3, .	3.6	1.475
56	Intrinsic versus extrinsic orbital and electronic reconstructions at complex oxide interfaces. Physical Review Materials, 2021, 5, .	2.4	6
57	Nematicity and Charge Order in Superoxygenated $\text{La}_{1-x}\text{Pr}_x\text{NiO}_{3+\delta}$ . Physical Review Letters, 2018, 121, 067602.	7.8	5
58	Quasi-particle interference of heavy fermions in resonant x-ray scattering. Science Advances, 2016, 2, e1601086.	10.3	4
59	Doping-dependent phonon anomaly and charge-order phenomena in the $\text{HgBa}_2\text{CuO}_{4-x}$ and $\text{HgBa}_2\text{CuO}_{4-x}\text{F}_x$ . Physical Review B, 2022, 105, 080401.	3.2	4
60	Direct evidence for the suppression of charge stripes in epitaxial $\text{La}_{1-x}\text{Pr}_x\text{NiO}_3$ . Physical Review B, 2008, 77, .	3.2	3
61	Anomalous helimagnetic domain shrinkage due to the weakening of the Dzyaloshinskii-Moriya interaction in CrAs. Physical Review B, 2020, 102, .	3.2	3