

Feizhou He

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3891918/publications.pdf>

Version: 2024-02-01

61
papers

4,107
citations

201674

27
h-index

123424

61
g-index

62
all docs

62
docs citations

62
times ranked

4345
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced charge density wave coherence in a light-quenched, high-temperature superconductor. <i>Science</i> , 2022, 376, 860-864.	12.6	22
2	Dynamic electron correlations with charge order wavelength along all directions in the copper oxide plane. <i>Nature Communications</i> , 2021, 12, 597.	12.8	21
3	Large response of charge stripes to uniaxial stress in $\text{La}_{1-x}\text{Pr}_x\text{CuO}_2$. <i>Physical Review Research</i> , 2021, 3, .	14.7	16
4	Sudden Collapse of Magnetic Order in Oxygen-Deficient Nickelate Films. <i>Physical Review Letters</i> , 2021, 126, 187602.	7.8	16
5	Spin-orbit phase behavior of Na_2IrO_4 at low temperatures. <i>Physical Review B</i> , 2021, 103, .	11.9	11
6	Intrinsic versus extrinsic orbital and electronic reconstructions at complex oxide interfaces. <i>Physical Review Materials</i> , 2021, 5, .	2.4	6
7	Vanishing nematic order beyond the pseudogap phase in overdoped cuprate superconductors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	19
8	Single-crystalline epitaxial TiO film: A metal and superconductor, similar to Ti metal. <i>Science Advances</i> , 2021, 7, .	10.3	14
9	Orbital symmetries of charge density wave order in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$. <i>Science Advances</i> , 2020, 6, .	10.3	9
10	Doping-dependent phonon anomaly and charge-order phenomena in the $\text{HgBa}_2\text{Cu}_2\text{O}_8$ and $\text{HgBa}_2\text{Cu}_2\text{O}_7$. <i>Physical Review B</i> , 2020, 101, .	3.2	4
11	Resonant Soft X-ray Reflectometry and Diffraction Studies of Emergent Phenomena in Oxide Heterostructures. <i>Synchrotron Radiation News</i> , 2020, 33, 20-24.	0.8	7
12	Anomalous helimagnetic domain shrinkage due to the weakening of the Dzyaloshinskii-Moriya interaction in CrAs. <i>Physical Review B</i> , 2020, 102, .	3.2	3
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	Evolution of charge order topology across a magnetic phase transition in cuprate superconductors. <i>Nature Physics</i> , 2019, 15, 335-340.	16.7	21
15	Intertwined Spin and Orbital Density Waves in MnP Uncovered by Resonant Soft X-Ray Scattering. <i>Physical Review X</i> , 2019, 9, .	8.9	6
16	Epitaxial growth of perovskite SrBiO_3 film on SrTiO_3 by oxide molecular beam epitaxy. <i>Physical Review Materials</i> , 2019, 3, .	2.4	9
17	Perovskite nickelates as electric-field sensors in salt water. <i>Nature</i> , 2018, 553, 68-72.	27.8	146
18	Commensurate versus incommensurate charge ordering near the superconducting dome in $\text{Ir}_{1-x}\text{Co}_x\text{O}_2$ revealed by resonant x-ray scattering. <i>Physical Review B</i> , 2018, 97, .	11.8	11

#	ARTICLE	IF	CITATIONS
19	Chemical and valence reconstruction at the surface of SmB_6 by means of resonant soft x-ray reflectometry. <i>Physical Review B</i> , 2018, 97, .	16.7	37
20	Complex magnetic order in nickelate slabs. <i>Nature Physics</i> , 2018, 14, 1097-1102.	16.7	37
21	Nematicity and Charge Order in Superoxygenated $\text{La}_{1-x}\text{Sr}_x\text{NiO}_2$	7.8	5
22	Orbital Order and Fluctuations in the Two-Leg Ladder Materials BaFe_2As_2 (FeTlO) Synchrotron x-ray scattering study of charge-density-wave order in $\text{HgBa}_2\text{CuO}_4$ <i>Physical Review B</i> , 2017, 96, .	3.2	28
23	Synchrotron x-ray scattering study of charge-density-wave order in $\text{HgBa}_2\text{CuO}_4$ <i>Physical Review B</i> , 2017, 96, .	3.2	28
24	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
25	Quasi-particle interference of heavy fermions in resonant x-ray scattering. <i>Science Advances</i> , 2016, 2, e1601086.	10.3	4
26	Doping-dependent charge order correlations in electron-doped cuprates. <i>Science Advances</i> , 2016, 2, e1600782.	10.3	65
27	Valence-state reflectometry of complex oxide heterointerfaces. <i>Npj Quantum Materials</i> , 2016, 1, .	5.2	23
28	Response to Comment on "Broken translational and rotational symmetry via charge stripe order in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{6+y}$ " <i>Science</i> , 2016, 351, 235-235.	12.6	7
29	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
30	Nematicity in stripe-ordered cuprates probed via resonant x-ray scattering. <i>Science</i> , 2016, 351, 576-578.	12.6	61
31	Tailoring the electronic transitions of NdNiO_3 films through (111) oriented interfaces. <i>APL Materials</i> , 2015, 3, 062506.	5.1	57
32	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
33	Symmetry of charge order in cuprates. <i>Nature Materials</i> , 2015, 14, 796-800.	27.5	195
34	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
35	Charge ordering in the electron-doped superconductor $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$. <i>Science</i> , 2015, 347, 282-285.	12.6	182
36	Broken translational and rotational symmetry via charge stripe order in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{6+y}$. <i>Science</i> , 2015, 347, 1335-1339.	12.6	149

#	ARTICLE	IF	CITATIONS
37	Achieving a high magnetization in sub-nanostructured magnetite films by spin-flipping of tetrahedral Fe ³⁺ cations. Nano Research, 2015, 8, 2935-2945.	10.4	21
38	Anomalous spectral-weight transfers unraveling oxygen screening and electronic correlations in the insulator-metal transition of VO_2 . Physical Review B, 2015, 91, .	3.2	16
39	Revealing orbital and magnetic phase transitions in Pr _{0.5} Ca _{0.5} MnO ₃ epitaxial thin films by resonant soft x-ray scattering. New Journal of Physics, 2014, 16, 033006.	2.9	8
40	Electronic transitions in strained SmNiO ₃ thin films. APL Materials, 2014, 2, 116110.	5.1	76
41	Effect of Pt substitution on the electronic structure of AuTe_2 . Physical Review B, 2014, 90, .	3.2	8
42	Charge Order Driven by Fermi-Arc Instability in Bi ₂ Sr ₂ LaCuO _{6+δ} . Science, 2014, 343, 390-392.	12.6	512
43	Element Specific Monolayer Depth Profiling. Advanced Materials, 2014, 26, 6554-6559.	21.0	58
44	Impact of Quenched Oxygen Disorder on Charge Density Wave Order in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physical Review Letters, 2014, 113, 107002.	7.8	32
45	Bond order and the role of ligand states in stripe-modulated IrTe_2 . Physical Review B, 2014, 90, .	3.2	21
46	Surface-enhanced charge-density-wave instability in underdoped Bi ₂ Sr _{2-x} La _x CuO _{6+δ} . Nature Communications, 2013, 4, 1977.	12.8	21
47	Resonant X-Ray Scattering Measurements of a Spatial Modulation of the Cu ²⁺ and O ²⁻ Energies in Stripe-Ordered Cuprate Superconductors. Physical Review Letters, 2013, 110, 017001.	7.8	32
48	Strain-Induced Spin States in Atomically Ordered Cobaltites. Nano Letters, 2012, 12, 4966-4970.	9.1	160
49	Distinct Charge Orders in the Planes and Chains of Ortho-II-Ordered $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Superconductors Identified by Resonant Elastic X-ray Scattering. Physical Review Letters, 2012, 109, 167001.	7.8	254
50	Long-Range Incommensurate Charge Fluctuations in (Y,Nd)Ba ₂ Cu ₃ O _{6+δ} . Science, 2012, 337, 821-825.	12.6	938
51	Investigations of mechanical vibrations for beamlines at the Canadian Light Source. Journal of Synchrotron Radiation, 2011, 18, 109-116.	2.4	7
52	An in-vacuum diffractometer for resonant elastic soft x-ray scattering. Review of Scientific Instruments, 2011, 82, 073104.	1.3	44
53	Direct evidence for the suppression of charge stripes in epitaxial $\text{La}_{1.67}\text{Sr}$. Physical Review B, 2008, 77, .	3.2	3
54	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

#	ARTICLE	IF	CITATIONS
55	Stress induced monoclinic phase in epitaxial BaTiO ₃ on MgO. Journal of Applied Physics, 2006, 99, 104103.	2.5	32
56	Lattice strain in epitaxial BaTiO ₃ thin films. Applied Physics Letters, 2006, 88, 152908.	3.3	34
57	Strain Phase Diagram and Domain Orientation in SrTiO ₃ Thin Films. Physical Review Letters, 2005, 94, 176101.	7.8	78
58	Multiple relaxation mechanisms in SrTiO ₃ /SrRuO ₃ heterostructures. Applied Physics Letters, 2004, 84, 4848-4850.	3.3	13
59	Structural phase transition in epitaxial perovskite films. Physical Review B, 2004, 70, .	3.2	76
60	Anomalous phase transition in strained SrTiO ₃ thin films. Applied Physics Letters, 2003, 83, 123-125.	3.3	27
61	Structure and tribological property of B ₂ -based approximants. Bulletin of Materials Science, 1999, 22, 465-472.	1.7	22