

Yi Lu

List of Publications by Year in descending order

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37
papers

1,360
citations

430874

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Orbital-Dependent Charge Correlations in $\text{YBa}_2\text{Cu}_3\text{O}_6$ Probed by Resonant X-Ray Scattering: Evidence for Three Competing Phases. <i>Physical Review Letters</i> , 2013, 110, 187001.	7.8	168
2	Efficient real-frequency solver for dynamical mean-field theory. <i>Physical Review B</i> , 2014, 90, .	3.2	135
3	Orbital Control of Noncollinear Magnetic Order in Nickel Oxide Heterostructures. <i>Physical Review Letters</i> , 2013, 111, 106804.	7.8	110
4	Strain and composition dependence of orbital polarization in nickel oxide superlattices. <i>Physical Review B</i> , 2013, 88, .	3.2	107
5	Topotactic Hydrogen in Nickelate Superconductors and Akin Infinite-Layer Oxides $\text{A}_2\text{B}_2\text{O}_6$. <i>Physical Review Letters</i> , 2020, 124, 166402.	7.8	102
6	P^2T -Symmetric Real Dirac Fermions and Semimetals. <i>Physical Review Letters</i> , 2017, 118, 056401.	7.8	85
7	Collective Nature of Spin Excitations in Superconducting Cuprates Probed by Resonant Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 2015, 114, 217003.	7.8	81
8	Bands, resonances, edge singularities and excitons in core level spectroscopy investigated within the dynamical mean-field theory. <i>Europhysics Letters</i> , 2014, 108, 57004.	2.0	78
9	Long-range charge-density-wave proximity effect at cuprate/manganate interfaces. <i>Nature Materials</i> , 2016, 15, 831-834.	27.5	46
10	Temperature dependence of photoconductivity and persistent photoconductivity of single ZnO nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 363-366.	2.3	45
11	Tunable band gap and enhanced ferromagnetism by surface adsorption in monolayer Cr_2N . <i>Physical Review B</i> , 2019, 99, .	3.2	40
12	Quantitative determination of bond order and lattice distortions in nickel oxide heterostructures by resonant x-ray scattering. <i>Physical Review B</i> , 2016, 93, .	3.2	38
13	Lattice distortions and octahedral rotations in epitaxially strained $\text{LaNiO}_3/\text{LaAlO}_3$ superlattices. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	30
14	Atomically resolved EELS mapping of the interfacial structure of epitaxially strained $\text{LaNiO}_3/\text{LaAlO}_3$ superlattices. <i>Physical Review B</i> , 2014, 90, .	3.2	30
15	Crossover from Collective to Incoherent Spin Excitations in Superconducting Cuprates Probed by Detuned Resonant Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 2017, 119, 097001.	7.8	26
16	Site-Selective Probe of Magnetic Excitations in Rare-Earth Nickelates Using Resonant Inelastic X-ray Scattering. <i>Physical Review X</i> , 2018, 8, .	8.9	26
17	Polarity-induced electronic and atomic reconstruction at NdNiO_2 interfaces. <i>Physical Review B</i> , 2020, 102, .	3.2	25
18	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

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19	Electric-Field-Induced Polar Order and Localization of the Confined Electrons in LaAlO_3 . Physical Review Letters, 2013, 110, 136805.	7.8	18
20	Improved performance of ZnO nanowire field-effect transistors via focused ion beam treatment. Nanotechnology, 2011, 22, 375201.	2.6	16
21	Natural-orbital impurity solver and projection approach for Green's functions. Physical Review B, 2019, 100, .	3.2	14
22	Probing the energy gap of high-temperature cuprate superconductors by resonant inelastic x-ray scattering. Npj Quantum Materials, 2018, 3, .	5.2	13
23	Oxygen vacancy enhanced ferroelectricity in BTO:SRO nanocomposite films. Acta Materialia, 2020, 199, 9-18.	7.9	12
24	Exact diagonalization as an impurity solver in dynamical mean field theory. European Physical Journal: Special Topics, 2017, 226, 2549-2564.	2.6	11
25	Resonant inelastic x-ray scattering study of bond order and spin excitations in nickelate thin-film structures. Physical Review B, 2019, 99, .	3.2	11
26	Layer Selective Control of the Lattice Structure in Oxide Superlattices. Advanced Materials, 2014, 26, 258-262.	21.0	10
27	Spin waves in metallic iron and nickel measured by soft x-ray resonant inelastic scattering. Physical Review B, 2020, 102, .	3.2	10
28	Origins of bond and spin order in rare-earth nickelate bulk and heterostructures. Physical Review B, 2017, 95, .	3.2	9
29	Tree tensor-network real-time multiorbital impurity solver: Spin-orbit coupling and correlation functions in Sr_2CuO_7 . Physical Review B, 2021, 104, .	3.2	9
30	Hysteresis magnetoresistance and micromagnetic modeling of Ni microbelts. Journal of Magnetism and Magnetic Materials, 2010, 322, 2231-2234.	2.3	7
31	Nonperturbative Series Expansion of Green's Functions: The Anatomy of Resonant Inelastic X-Ray Scattering in the Doped Hubbard Model. Physical Review Letters, 2017, 119, 256401.	7.8	7
32	Magnetism in doped infinite-layer NdNiO_2 studied by combined density functional theory and dynamical mean-field theory. Physical Review B, 2022, 106, .	3.2	7
33	Control of the metal-insulator transition in NdNiO_3 thin films through the interplay between structural and electronic properties. Physical Review Materials, 2021, 5, .	2.4	6
34	Control of dopant crystallinity in electrochemically treated cuprate thin films. Physical Review Materials, 2019, 3, .	2.4	5
35	Polar Rectification Effect in Electro-Fatigued SrTiO_3 -Based Junctions. ACS Applied Materials & Interfaces, 2020, 12, 31645-31651.	8.0	2
36	First-principle study of metal oxide thin films: Electronic and magnetic properties of confined d electrons. , 2018, , 245-261.		0

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37	Interplay between structural and electronic properties with the metal-insulator transition in NdNiO ₃ thin films. <i>Microscopy and Microanalysis</i> , 2021, 27, 144-145.	0.4	0