

Kyle M Shen

List of Publications by Year in descending order

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82
papers

4,412
citations

136950

32
h-index

102487

66
g-index

83
all docs

83
docs citations

83
times ranked

5248
citing authors

#	ARTICLE	IF	CITATIONS
1	Doping Dependence of a_{1g} -Type Cuprate Superconductor Investigated by Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2002, 88, 257001.	7.8	379
2	Nodal Quasiparticles and Antinodal Charge Ordering in $\text{Ca}_{2-x}\text{Na}_x\text{CuO}_2\text{Cl}_2$. <i>Science</i> , 2005, 307, 901-904.	12.6	320
3	Universal nodal Fermi velocity. <i>Nature</i> , 2003, 423, 398-398.	27.8	291
4	Influence of Surface Adsorption on the Oxygen Evolution Reaction on $\text{IrO}_2(110)$. <i>Journal of the American Chemical Society</i> , 2017, 139, 3473-3479.	13.7	269
5	Missing Quasiparticles and the Chemical Potential Puzzle in the Doping Evolution of the Cuprate Superconductors. <i>Physical Review Letters</i> , 2004, 93, 267002.	7.8	242
6	Interplay of Spin-Orbit Interactions, Dimensionality, and Octahedral Rotations in Semimetallic SrIrO_3 . <i>Physical Review Letters</i> , 2015, 114, 016401.	7.8	189
7	Atomic-scale control of competing electronic phases in ultrathin LaNiO_3 . <i>Nature Nanotechnology</i> , 2014, 9, 443-447.	31.5	183
8	Measurements of Oxygen Electroadsorption Energies and Oxygen Evolution Reaction on $\text{RuO}_2(110)$: A Discussion of the Sabatier Principle and Its Role in Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 17597-17605.	13.7	177
9	Anomalous Electronic Structure and Pseudogap Effects in $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$. <i>Physical Review Letters</i> , 2001, 87, 147003.	7.8	175
10	Adsorption-controlled growth of La-doped BaSnO_3 by molecular-beam epitaxy. <i>APL Materials</i> , 2017, 5, .	5.1	131
11	Amorphization mechanism of SrIrO_3 electrocatalyst: How oxygen redox initiates ionic diffusion and structural reorganization. <i>Science Advances</i> , 2021, 7, .	10.3	122
12	Imaging chiral symmetry breaking from Kekulé bond order in graphene. <i>Nature Physics</i> , 2016, 12, 950-958.	16.7	111
13	Anomalous high-energy dispersion in angle-resolved photoemission spectra from the insulating cuprate $\text{Ca}_2\text{CuO}_2\text{Cl}_2$. <i>Physical Review B</i> , 2005, 71, .	3.2	103
14	Quantum many-body interactions in digital oxide superlattices. <i>Nature Materials</i> , 2012, 11, 855-859.	27.5	92
15	Quasiparticle Mass Enhancement and Temperature Dependence of the Electronic Structure of Ferromagnetic SrRuO_3 Thin Films. <i>Physical Review Letters</i> , 2013, 110, 087004.	7.8	91
16	Atomically precise interfaces from non-stoichiometric deposition. <i>Nature Communications</i> , 2014, 5, 4530.	12.8	91
17	Evolution of a metal to insulator transition in $\text{Ca}_{2-x}\text{Na}_x\text{CuO}_2\text{Cl}_2$ as seen by angle-resolved photoemission. <i>Physical Review B</i> , 2003, 67, .	3.2	83
18	Strain Control of Fermiology and Many-Body Interactions in Two-Dimensional Ruthenates. <i>Physical Review Letters</i> , 2016, 116, 197003.	7.8	82

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19	Angle-resolved photoemission studies of lattice polaron formation in the cuprate $\text{Ca}_2\text{CuO}_2\text{Cl}_2$. Physical Review B, 2007, 75, .	3.2	69
20	Oxygen evolution reaction electrocatalysis on SrIrO_3 grown using molecular beam epitaxy. Journal of Materials Chemistry A, 2016, 4, 6831-6836.	10.3	62
21	Synthesis science of SrRuO_3 and CaRuO_3 epitaxial films with high residual resistivity ratios. APL Materials, 2018, 6, .	5.1	61
22	Evolution of the Fermi Surface and Quasiparticle Renormalization through a van Hove Singularity in $\text{Sr}_2\text{YCu}_2\text{O}_7$. Physical Review Letters, 2007, 99, 187001.	7.8	56
23	Cuprate high-T superconductors. Materials Today, 2008, 11, 14-21. Resonant elastic soft x-ray scattering in oxygen-ordered $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$.	14.2	48
24	Resonant elastic soft x-ray scattering in oxygen-ordered $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$.	3.2	45
25	Strain-stabilized superconductivity. Nature Communications, 2021, 12, 59.	12.8	43
26	Chlorine evolution reaction electrocatalysis on $\text{RuO}_2(110)$ and $\text{IrO}_2(110)$ grown using molecular-beam epitaxy. Journal of Chemical Physics, 2019, 150, 041726.	3.0	39
27	Hierarchical spin-orbital polarization of a giant Rashba system. Science Advances, 2015, 1, e1500495.	10.3	38
28	Evolution of electronic correlations across the rutile, perovskite, and Ruddeldsen-Popper iridates with octahedral connectivity. Physical Review B, 2016, 94, .	3.2	38
29	Electronic excitations near the Brillouin zone boundary of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$. Physical Review B, 2002, 65, .	3.2	37
30	Strain-engineering Mott-insulating La_2CuO_4 . Nature Communications, 2019, 10, 786.	12.8	35
31	Demystifying the growth of superconducting Sr_2RuO_4 thin films. APL Materials, 2018, 6, .	5.1	33
32	Quantifying electronic correlation strength in a complex oxide: A combined DMFT and ARPES study of LaNiO_3 . Physical Review B, 2015, 92, .	3.2	32
33	Evidence for Topologically Protected Surface States and a Superconducting Phase in Bi_2Te_3 . Physical Review B, 2015, 92, .	3.2	31
34	Topological surface states and superconductivity in Bi_2Te_3 . Physical Review B, 2015, 92, .	3.2	31

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37	Manipulating superconductivity in ruthenates through Fermi surface engineering. Physical Review B, 2016, 94, .	3.2	26
38	Inhomogeneous ferromagnetism mimics signatures of the topological Hall effect in SrRuO_3 thin films. Physical Review Materials, 2020, 4, .	2.4	17
39	Dirac nodal lines protected against spin-orbit interaction in IrO_2 thin films. Physical Review Materials, 2019, 3, .	2.4	17
40	Layer-by-layer shuttered molecular-beam epitaxial growth of superconducting SrLaCuO_2 thin films. Journal of Applied Physics, 2013, 113, .	2.5	22
41	Electron Doping of the Parent Cuprate La_2CuO_4 by Cation Substitution. Physical Review Letters, 2016, 117, 147002.	2.1	20
42	Doping evolution and polar surface reconstruction of the infinite-layer cuprate SrCuO_2 . Physical Review B, 2015, 92, .	2.2	20
43	Single-Crystal Alkali Antimonide Photocathodes: High Efficiency in the Ultrathin Limit. Physical Review Letters, 2022, 128, 114801.	7.8	20
44	Lifshitz transition from valence fluctuations in YbAl_3 . Nature Communications, 2017, 8, 852.	12.8	19
45	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
46	Influence of the substrate temperature on the Curie temperature and charge carrier density of epitaxial Gd-doped EuO films. Applied Physics Letters, 2011, 98, .	3.3	18
47	Engineering Carrier Effective Masses in Ultrathin Quantum Wells of IrO_2 . Physical Review Letters, 2018, 121, 176802.	7.8	17
48	Revealing the hidden heavy Fermi liquid in CaRuO_3 . Physical Review B, 2018, 98, .	3.1	17
49	Rutile IrO_2 superlattices: A hyperconnected analog to the Ruddelsden-Popper structure. Physical Review Letters, 2020, 125, 176401.	2.4	17
50	Formation and Observation of a Quasi-Two-Dimensional Heavy Fermi Liquid in Epitaxially Stabilized Sr_2RuO_7 . Physical Review Letters, 2015, 115, 096405.	7.8	16
51	A tunable low-energy photon source for high-resolution angle-resolved photoemission spectroscopy. Review of Scientific Instruments, 2012, 83, 113103.	1.3	15
52	Realization of Epitaxial Thin Films of the Topological Crystalline Insulator Sr_3SnO . Advanced Materials, 2020, 32, 2000809.	21.0	15
53	Strain relaxation induced transverse resistivity anomalies in SrRuO_3 thin films. Physical Review B, 2020, 102, .	3.2	15
54	Interfacial charge transfer and persistent metallicity of ultrathin $\text{SrIrO}_3/\text{SrRuO}_3$ heterostructures. Science Advances, 2022, 8, eabj0481.	10.3	15

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55	Controlling surface carrier density by illumination in the transparent conductor La-doped BaSnO ₃ . Applied Physics Letters, 2018, 112, .	3.3	14
56	Electronic nematicity in Sr ₂ RuO ₄ . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10654-10659.	7.1	14
57	Interfacial Electron-Phonon Coupling Constants Extracted from Intrinsic Replica Bands in Monolayer FeSe/SrTiO ₃ . Physical Review Letters, 2021, 127, 016803.	7.8	10
58	Band offset and electron affinity of MBE-grown SnSe ₂ . Applied Physics Letters, 2018, 112, .	3.3	13
59	Electronic structure of SnSe ₂ films grown by molecular beam epitaxy. Applied Physics Letters, 2019, 114, 091602.	3.3	12
60	Mott gap collapse in lightly hole-doped Sr _{2-x} K _x IrO ₄ . Nature Communications, 2020, 11, 2597.	12.8	12
61	Putting the squeeze on superconductivity. Science, 2017, 355, 133-133.	12.6	11
62	Subterahertz Momentum Drag and Violation of Matthiessen's Rule in an Ultraclean Ferromagnetic SrRuO ₃ Metallic Thin Film. Physical Review Letters, 2020, 125, 217401.	7.8	9
63	Strong interlayer interactions in bilayer and trilayer moiré superlattices. Science Advances, 2022, 8, eabk1911.	10.3	9
64	Evolution of electronic structure from insulator to superconductor in Bi ₂ Sr _{2-x} La _x (Ca,Y)Cu ₂ O ₈ + δ . Physical Review B, 2010, 81, .	3.2	8
65	Electronic and vibrational signatures of ruthenium vacancies in Sr _{2-x} La _x (Ca,Y)Cu ₂ O ₈ + δ thin films. Physical Review Materials, 2019, 3, .	2.4	8
66	Canonical approach to cation flux calibration in oxide molecular-beam epitaxy. Physical Review Materials, 2022, 6, .	2.4	8
67	Surface atomic structure of epitaxial LaNiO ₃ films studied by in situ LEED. Physical Review B, 2017, 95, .	3.2	7
68	X-ray absorption spectroscopy study of annealing process on Sr _{1-x} La _x CuO ₂ electron-doped cuprate thin films. Journal of Applied Physics, 2018, 123, .	2.5	6
69	Two-dimensional magnetic monopole gas in an oxide heterostructure. Nature Communications, 2020, 11, 1341.	12.8	6
70	X-ray diffraction measurements of the c-axis Debye-Waller factors of YBa ₂ Cu ₃ O ₇ and HgBa ₂ CaCu ₂ O ₆ . Physical Review B, 2003, 67, .	3.2	5
71	Separated transport relaxation scales and interband scattering in thin films of SrRuO ₃ and CaRuO ₃ . Physical Review B, 2017, 95, .	3.2	5
72	Epitaxial growth and electronic properties of mixed valence YbAl ₃ thin films. Journal of Applied Physics, 2016, 120, 035105.	2.5	4

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73	Quantum oscillations and quasiparticle properties of thin film SrTiO_3 . Physical Review B, 2021, 104, .	3.2	2
74	Disentangling types of lattice disorder impacting superconductivity in Sr_2RuO_4 by quantitative local probes. APL Materials, 2022, 10, .	5.1	4
75	Direct Imaging of Tilt Relaxation from the Interface in Epitaxially Strained Ca_2RuO_4 Thin Films using ABF-STEM. Microscopy and Microanalysis, 2018, 24, 64-65.	0.4	2
76	Low energy photoemission from (100) $\text{Ba}_{1-x}\text{La}_x\text{SnO}_3$ thin films for photocathode applications. European Physical Journal: Special Topics, 2019, 228, 713-718.	2.6	2
77	Computational synthesis of substrates by crystal cleavage. Npj Computational Materials, 2021, 7, .	8.7	2
78	Enhanced surface superconductivity in $\text{Ba}(\text{Fe}_{0.95}\text{Co}_{0.05})_2\text{As}_2$. Applied Physics Letters, 2020, 116, 062601.	3.3	2
79	Observation of semilocalized dispersive states in the strongly correlated electron-doped ferromagnet EuO . Physical Review B, 2016, 94, .	3.2	1
80	THz electrodynamics of mixed-valent YbAl_3 and LuAl_3 thin films. European Physical Journal B, 2021, 94, 1.	1.5	1
81	Comparing Thickness and Doping-Induced Effects on the Normal States of Infinite-Layer Electron-Doped Cuprates: Is There Anything to Learn?. Nanomaterials, 2022, 12, 1092.	4.1	1
82	Harnessing Local Sample Variations to Generate Self-Consistent EELS References for Stoichiometry Quantification. Microscopy and Microanalysis, 2019, 25, 580-581.	0.4	0