Wei Ku

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1406082/publications.pdf

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67	3,073	172457	155660
papers	citations	29 h-index	55 g-index

69	69	69	4024
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ferro-Orbital Order and Strong Magnetic Anisotropy in the Parent Compounds of Iron-Pnictide Superconductors. Physical Review Letters, 2009, 103, 267001.	7.8	358
2	Unfolding First-Principles Band Structures. Physical Review Letters, 2010, 104, 216401.	7.8	255
3	Band-Gap Problem in Semiconductors Revisited: Effects of Core States and Many-Body Self-Consistency. Physical Review Letters, 2002, 89, 126401.	7.8	166
4	Unified Picture for Magnetic Correlations in Iron-Based Superconductors. Physical Review Letters, 2010, 105, 107004.	7.8	164
5	Signatures of a Pressure-Induced Topological Quantum Phase Transition in BiTeI. Physical Review Letters, 2013, 111, 155701.	7.8	142
6	Insulating Ferromagnetism inLa4Ba2Cu2O10: AnAb InitioWannier Function Analysis. Physical Review Letters, 2002, 89, 167204.	7.8	137
7	Effect of covalent bonding on magnetism and the missing neutron intensity in copper oxide compounds. Nature Physics, 2009, 5, 867-872.	16.7	112
8	Do Transition-Metal Substitutions Dope Carriers in Iron-Based Superconductors?. Physical Review Letters, 2012, 108, 207003.	7.8	104
9	Orbital Ordering inLaMnO3: Electron-Electron versus Electron-Lattice Interactions. Physical Review Letters, 2006, 96, 116405.	7.8	94
10	Nanospheres of a New Intermetallic FeSn₅ Phase: Synthesis, Magnetic Properties and Anode Performance in Li-ion Batteries. Journal of the American Chemical Society, 2011, 133, 11213-11219.	13.7	88
11	Nonresonant Inelastic X-Ray Scattering and Energy-Resolved Wannier Function Investigation ofdâ^'dExcitations in NiO and CoO. Physical Review Letters, 2007, 99, 026401.	7.8	84
12	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>GGA</mml:mtext><mml:mo>+</mml:mo><mml:mi>U</mml:mi></mml:mrow></mml:math> of correlated spin excitations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaCoO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml: Physical Review B, 2009, 79, .	3.2	84
13	Impact of the two Fe unit cell on the electronic structure measured by ARPES in iron pnictides. Physical Review B, 2012, 86, .	3.2	75
14	Exchange Coupling in Eu Monochalcogenides from First Principles. Journal of the Physical Society of Japan, 2005, 74, 1408-1411.	1.6	68
15	Progress in the two-leg-ladder alkali metal iron selenides<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	3.2	58
16	One-Fe versus Two-Fe Brillouin Zone of Fe-Based Superconductors: Creation of the Electron Pockets by Translational Symmetry Breaking. Physical Review Letters, 2011, 107, 257001.	7.8	53
17	Ab InitioInvestigation of Collective Charge Excitations inMgB2. Physical Review Letters, 2002, 88, 057001.	7.8	50
18	Plasmon Lifetime in K: A Case Study of Correlated Electrons in Solids Amenable toAb InitioTheory. Physical Review Letters, 1999, 82, 2350-2353.	7.8	48

#	Article	IF	Citations
19	Quasiparticle interference and nonsymmorphic effect on a floating band surface state of ZrSiSe. Nature Communications, 2018, 9, 4153.	12.8	48
20	Electron-hole and plasmon excitations in3dtransition metals:Ab initiocalculations and inelastic x-ray scattering measurements. Physical Review B, 2005, 72, .	3.2	45
21	Dynamical reconstruction of the exciton in LiF with inelastic x-ray scattering. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12159-12163.	7.1	45
22	Effective Doping and Suppression of Fermi Surface Reconstruction via Fe Vacancy Disorder inKxFe2â^'ySe2. Physical Review Letters, 2012, 109, 147003.	7.8	43
23	Pressure-induced melting of magnetic order and emergence of a new quantum state in Î±â^'RuCl3. Physical Review B, 2018, 97, .	3.2	43
24	Itinerant electrons, local moments, and magnetic correlations in the pnictide superconductors CeFeAsO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>F<mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

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37	Indium Substitution Effect on the Topological Crystalline Insulator Family (Pb1â^'xSnx)1â^'yInyTe: Topological and Superconducting Properties. Crystals, 2017, 7, 55.	2.2	19
38	Charge ordering in half-doped manganites: Weak charge disproportion and leading mechanisms. Europhysics Letters, 2010, 89, 27008.	2.0	18
39	Insulating magnetism in vacancy-ordered K0.8Fe1.6Se2. Physical Review B, 2012, 86, .	3.2	18
40	Surface-state-dominated transport in crystals of the topological crystalline insulator In-dopedPb1â^'xSnxTe. Physical Review B, 2015, 91, .	3.2	18
41	Strongly correlated doped hole carriers in the superconducting nickelates: Their location, local many-body state, and low-energy effective Hamiltonian. Physical Review B, 2021, 103, .	3.2	18
42	Large crystal local-field effects in the dynamical structure factor of rutileTiO2. Physical Review B, 2004, 70, .	3.2	17
43	Ku and Eguiluz Reply:. Physical Review Letters, 2004, 93, .	7.8	17
44	Phonons in superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>CaC</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>stu via inelastic x-ray scattering. Physical Review B, 2007, 76, .	3.2	17
45	Study of multiband disordered systems using the typical medium dynamical cluster approximation. Physical Review B, 2015, 92, .	3.2	16
46	Unraveling local spin polarization of Zhang-Rice singlet in lightly hole-doped cuprates using high-energy optical conductivity. Physical Review B, 2017, 95, .	3.2	15
47	What is the Valence of Mn in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ga</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mn mathvariant="normal">N</mml:mi></mml:mrow></mml:math>? Physical Review Letters, 2015, 115, 197203.	7.8	14
48	Existence of electron and hole pockets and partial gap opening in the correlated semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Ca</mml:mi><mml:mn mathvariant="bold">3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Ru</mml:mi><mml:mn mathvariant="bold">2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mi><m	3.2	14
49	Electron and hole contributions to normal-state transport in the superconducting system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sn</mml:mi><mml:mrow><mml:mn>1</mml:mn> Physical Review B, 2018, 98, .	3.2	13
50	Fragility of the Kondo insulating gap against disorder: Relevance to recent puzzles in topological Kondo insulators. Physical Review Research, 2020, 2, .	3.6	10
51	Spin-split conduction band in EuB6and tuning of half-metallicity with external stimuli. Physical Review B, 2013, 87, .	3.2	9
52	First-Principles Method of Propagation of Tightly Bound Excitons: Verifying the Exciton Band Structure of LiF with Inelastic x-Ray Scattering. Physical Review Letters, 2013, 111, 157401.	7.8	8
53	Non-Fermi-liquid scattering against an emergent Bose liquid: Manifestations in the kink and other exotic quasiparticle behavior in the normal-state cuprate superconductors. Physical Review B, 2019, 99, .	3.2	8
54	Kinetics-Driven Superconducting Gap in Underdoped Cuprate Superconductors Within the Strong-Coupling Limit. Physical Review X, 2011, 1, .	8.9	7

#	Article	IF	Citations
55	First-principles Wannier function analysis of the electronic structure of PdTe: weaker magnetism and superconductivity. Journal of Physics Condensed Matter, 2013, 25, 405601.	1.8	7
56	Weak phase stiffness and nature of the quantum critical point in underdoped cuprates. Physical Review B, 2015, 92, .	3.2	7
57	Effects of the crystal structure in the dynamical electron density-response of hcp transition metals. Computational Materials Science, 2004, 30, 104-109.	3.0	5
58	Electronic Structure Reconstruction across the Antiferromagnetic Transition in TaFe 1.23 Te 3 Spin Ladder. Chinese Physics Letters, 2015, 32, 027401.	3.3	5
59	Non-necessity of band inversion process in two-dimensional topological insulators for bulk gapless states and topological phase transitions. Physical Review B, 2017, 96, .	3.2	5
60	Geometric frustration produces long-sought Bose metal phase of quantum matter. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	5
61	Nonrigid band shift and nonmonotonic electronic structure changes upon doping in the normal state of the pnictide high-temperature superconductor<mml:math		