

Jan Kunes

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

6,108
citations

40
h-index

76
g-index

123
ext. papers

6,883
ext. citations

5.1
avg, IF

5.8
L-index

#	Paper	IF	Citations
115	Core-Level X-Ray Spectroscopy of Infinite-Layer Nickelate: LDA+DMFT Study. <i>Physical Review X</i> , 2021 , 11,	9.1	6
114	Pressure-Induced Excitations in the Out-of-Plane Optical Response of the Nodal-Line Semimetal ZrSiS. <i>Physical Review Letters</i> , 2021 , 127, 076402	7.4	1
113	Dynamical response and competing orders in two-band Hubbard model. <i>Physical Review B</i> , 2020 , 102,	3.3	3
112	X-ray spectroscopy of the rare-earth nickelate LuNiO ₃ : LDA+DMFT study. <i>Physical Review B</i> , 2020 , 102,	3.3	1
111	LDA+DMFT approach to resonant inelastic x-ray scattering in correlated materials. <i>Physical Review B</i> , 2020 , 101,	3.3	9
110	Damping of spinful excitons in LaCoO ₃ by thermal fluctuations: Theory and experiment. <i>Physical Review B</i> , 2020 , 101,	3.3	2
109	Sparse sampling and tensor network representation of two-particle Green's functions. <i>SciPost Physics</i> , 2020 , 8,	6.1	5
108	Ferromagnetism of LaCoO ₃ films. <i>SciPost Physics</i> , 2020 , 8,	6.1	2
107	Charge-transfer effect in hard x-ray 1s and 2p photoemission spectra: LDA+DMFT and cluster-model analysis. <i>Physical Review B</i> , 2019 , 100,	3.3	7
106	Antiferromagnetism in RuO ₂ as d-wave Pomeranchuk instability. <i>Physical Review B</i> , 2019 , 99,	3.3	14
105	Pressure-induced spin-state ordering in Sr ₂ CoO ₃ F. <i>Physical Review B</i> , 2019 , 99,	3.3	2
104	Chemical pressure effect on the optical conductivity of the nodal-line semimetals ZrSiY(Y=S,Se,Te) and ZrGeY(Y=S,Te). <i>Physical Review B</i> , 2019 , 99,	3.3	16
103	Collective Modes in Excitonic Magnets: Dynamical Mean-Field Study. <i>Physical Review Letters</i> , 2019 , 122, 127601	7.4	24
102	Theoretical investigation of excitonic magnetism in LaSrCoO. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 135603	1.8	5
101	Excitonic magnet in external field: Complex order parameter and spin currents. <i>Physical Review B</i> , 2018 , 97,	3.3	7
100	Excitonic dispersion of the intermediate spin state in LaCoO ₃ revealed by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2018 , 98,	3.3	13
99	Continuum Charge Excitations in High-Valence Transition-Metal Oxides Revealed by Resonant Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 2018 , 121, 126403	7.4	10

98	Analysis of the crystal electric field parameters of YbNi ₄ P ₂ . <i>New Journal of Physics</i> , 2018 , 20, 073021	2.9	4
97	Optical determination of the Néel vector in a CuMnAs thin-film antiferromagnet. <i>Nature Photonics</i> , 2017 , 11, 91-96	33.9	62
96	Breaking of SU(4) symmetry and interplay between strongly correlated phases in the Hubbard model. <i>Physical Review B</i> , 2017 , 95,	3.3	5
95	Excitonic magnetism in d ₆ perovskites. <i>Physical Review B</i> , 2017 , 95,	3.3	15
94	LDA+DMFT approach to ordering phenomena and the structural stability of correlated materials. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 2641-2675	2.3	15
93	Calculated g-factors of 5d double perovskites Ba ₂ NaOsO ₆ and Ba ₂ YO ₆ . <i>Physical Review B</i> , 2017 , 95,	3.3	9
92	Control of antiferromagnetic spin axis orientation in bilayer Fe/CuMnAs films. <i>Scientific Reports</i> , 2017 , 7, 11147	4.9	8
91	DFT+DMFT study on soft moment magnetism and covalent bonding in SrRu ₂ O ₆ . <i>Physical Review B</i> , 2017 , 96,	3.3	12
90	LDA+DMFT approach to core-level spectroscopy: Application to 3d transition metal compounds. <i>Physical Review B</i> , 2017 , 96,	3.3	17
89	Competing phases in a model of Pr-based cobaltites. <i>Physical Review B</i> , 2017 , 96,	3.3	7
88	On the possibility of excitonic magnetism in Ir double perovskites. <i>Physical Review B</i> , 2016 , 93,	3.3	28
87	Spontaneous Spin Textures in Multiorbital Mott Systems. <i>Physical Review Letters</i> , 2016 , 116, 256403	7.4	11
86	Field-induced exciton condensation in LaCoO ₃ . <i>Scientific Reports</i> , 2016 , 6, 30510	4.9	32
85	Electrical switching of an antiferromagnet. <i>Science</i> , 2016 , 351, 587-90	33.3	707
84	woptic: Optical conductivity with Wannier functions and adaptive k-mesh refinement. <i>Computer Physics Communications</i> , 2016 , 202, 1-11	4.2	10
83	Excitonic condensation in systems of strongly correlated electrons. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 333201	1.8	61
82	Numerical calculation of spectral functions of the Bose-Hubbard model using bosonic dynamical mean-field theory. <i>Physical Review B</i> , 2015 , 92,	3.3	8
81	Doping-dependent bandwidth renormalization and spin-orbit coupling in (Sr _{1-x} La _x) ₂ RhO ₄ . <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 085602	1.8	6

80	Excitonic instability at the spin-state transition in the two-band Hubbard model. <i>Physical Review B</i> , 2014 , 89,	3-3	43
79	Room-temperature antiferromagnetic memory resistor. <i>Nature Materials</i> , 2014 , 13, 367-74	27	435
78	Crystal field of rare earth impurities in LaF ₃ . <i>Optical Materials</i> , 2014 , 37, 414-418	3-3	22
77	Phase diagram of exciton condensate in doped two-band Hubbard model. <i>Physical Review B</i> , 2014 , 90,	3-3	27
76	Mott versus Slater-Type Metal-Insulator Transition in Sr ₂ IrO ₄ and Ba ₂ IrO ₄ 2014 ,		4
75	Excitonic condensation of strongly correlated electrons: The case of Pr _{0.5} Ca _{0.5} CoO ₃ . <i>Physical Review B</i> , 2014 , 90,	3-3	47
74	Low-temperature properties of single-crystal CrB ₂ . <i>Physical Review B</i> , 2014 , 90,	3-3	16
73	Doping induced spin state transition in LaCoO ₃ : dynamical mean-field study. <i>Physical Review Letters</i> , 2013 , 110, 267204	7-4	21
72	Improved Green's function measurement for hybridization expansion quantum Monte Carlo. <i>Computer Physics Communications</i> , 2013 , 184, 2119-2126	4-2	9
71	Crystal field and magnetism of Pr ³⁺ and Nd ³⁺ ions in orthorhombic perovskites. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 446001	1.8	31
70	Atomically resolved spectroscopic study of Sr ₂ IrO ₄ : experiment and theory. <i>Scientific Reports</i> , 2013 , 3, 3073	4-9	48
69	Crystal field parameters with Wannier functions: Application to rare-earth aluminates. <i>Physical Review B</i> , 2013 , 87,	3-3	48
68	de Haas-van Alphen effect and Fermi surface properties of single-crystal CrB ₂ . <i>Physical Review B</i> , 2013 , 88,	3-3	8
67	Dipole matrix element approach versus Peierls approximation for optical conductivity. <i>Physical Review B</i> , 2012 , 85,	3-3	14
66	Spin state of negative charge-transfer material SrCoO ₃ . <i>Physical Review Letters</i> , 2012 , 109, 117206	7-4	44
65	Quantification of correlations in quantum many-particle systems. <i>Physical Review Letters</i> , 2012 , 108, 087004	7-4	23
64	Spin state transition and covalent bonding in LaCoO ₃ . <i>Physical Review B</i> , 2012 , 86,	3-3	78
63	Ab initio studies on the interplay between spin-orbit interaction and Coulomb correlation in Sr ₂ IrO ₄ and Ba ₂ IrO ₄ . <i>Physical Review Letters</i> , 2012 , 108, 086403	7-4	202

62	Disproportionation and metallization at low-spin to high-spin transition in multiorbital Mott systems. <i>Physical Review Letters</i> , 2011 , 106, 256401	7.4	69
61	Various scenarios of metal-insulator transition in strongly correlated materials. <i>Annalen Der Physik</i> , 2011 , 523, 682-688	2.6	4
60	Efficient treatment of two-particle vertices in dynamical mean-field theory. <i>Physical Review B</i> , 2011 , 83,	3.3	63
59	Phase diagram and gap anisotropy in iron-pnictide superconductors. <i>Physical Review B</i> , 2010 , 81,	3.3	137
58	Doping dependence of spin fluctuations and electron correlations in iron pnictides. <i>Physical Review B</i> , 2010 , 82,	3.3	46
57	Metal-insulator transition in NiS_2Se_x . <i>Physical Review B</i> , 2010 , 81,	3.3	44
56	Material-Specific Investigations of Correlated Electron Systems 2010 , 599-612		
55	Wien2wannier: From linearized augmented plane waves to maximally localized Wannier functions. <i>Computer Physics Communications</i> , 2010 , 181, 1888-1895	4.2	312
54	Charge fluctuations and the valence transition in Yb under pressure. <i>Physical Review Letters</i> , 2009 , 102, 246401	7.4	25
53	Dynamical mean-field approach to materials with strong electronic correlations. <i>European Physical Journal: Special Topics</i> , 2009 , 180, 5-28	2.3	32
52	Correlations in a band insulator. <i>Physical Review B</i> , 2009 , 80,	3.3	36
51	Coulomb repulsion and correlation strength in LaFeAsO from density functional and dynamical mean-field theories. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 075602	1.8	87
50	Pressure-driven metal-insulator transition in hematite from dynamical mean-field theory. <i>Physical Review Letters</i> , 2009 , 102, 146402	7.4	58
49	Quantum spin Hall effect in a transition metal oxide Na_2IrO_3 . <i>Physical Review Letters</i> , 2009 , 102, 256403	7.4	399
48	Density-functional calculation of the Coulomb repulsion and correlation strength in superconducting LaFeAsO . <i>JETP Letters</i> , 2008 , 88, 729-733	1.2	27
47	Collapse of magnetic moment drives the Mott transition in MnO . <i>Nature Materials</i> , 2008 , 7, 198-202	27	145
46	Temperature-dependent correlations in covalent insulators: Dynamical mean-field approximation. <i>Physical Review B</i> , 2008 , 78,	3.3	46
45	Oxygen x-ray emission and absorption spectra as a probe of the electronic structure of strongly correlated oxides. <i>Physical Review B</i> , 2008 , 77,	3.3	121

44	Optical spectroscopy and electronic band structure of ferromagnetic EuB ₆ . <i>Physical Review B</i> , 2008 , 78,	3.3	6
43	Force calculation for orbital-dependent potentials with FP-(L)APW + lo basis sets. <i>Computer Physics Communications</i> , 2008 , 179, 784-790	4.2	24
42	NiO: correlated band structure of a charge-transfer insulator. <i>Physical Review Letters</i> , 2007 , 99, 156404	7.4	122
41	Origin of strong coupling in lithium under pressure. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 133-136	1.3	9
40	Huge magnetocrystalline anisotropy of x-ray linear dichroism observed on CoFeMn bilayers. <i>Physical Review B</i> , 2007 , 75,	3.3	12
39	Local correlations and hole doping in NiO: A dynamical mean-field study. <i>Physical Review B</i> , 2007 , 75,	3.3	86
38	Correlation effects in the triangular lattice single-band system Li _x NbO ₂ . <i>Physical Review B</i> , 2007 , 76,	3.3	11
37	Magnetic state and electronic structure of plutonium from first principles calculations. <i>Journal of Alloys and Compounds</i> , 2007 , 444-445, 42-49	5.7	11
36	KOs ₂ O ₆ : Superconducting rattler. <i>Physica B: Condensed Matter</i> , 2006 , 378-380, 898-899	2.8	16
35	Superconductivity and lattice instability in compressed lithium from Fermi surface hot spots. <i>Physical Review Letters</i> , 2006 , 96, 047004	7.4	82
34	Mott transition of MnO under pressure: A comparison of correlated band theories. <i>Physical Review B</i> , 2006 , 74,	3.3	54
33	Frustration in the coupled rattler system KOs ₂ O ₆ . <i>Physical Review B</i> , 2006 , 74,	3.3	32
32	Effective Hamiltonian for potassium dynamics in the pyrochlore superconductor KOs ₂ O ₆ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 2962-2967	1.6	10
31	Exact exchange for correlated electrons. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 563-572	1.3	147
30	Detection of magnetic circular dichroism using a transmission electron microscope. <i>Nature</i> , 2006 , 441, 486-8	50.4	293
29	Exchange coupling in Eu compounds. <i>Physica B: Condensed Matter</i> , 2005 , 359-361, 205-207	2.8	14
28	Exchange Coupling in Eu Monochalcogenides from First Principles. <i>Journal of the Physical Society of Japan</i> , 2005 , 74, 1408-1411	1.5	64
27	Disproportionation, metal-insulator transition, and critical interaction strength in Na(1/2)CoO ₂ . <i>Physical Review Letters</i> , 2005 , 94, 026403	7.4	49

26	Disproportionation and Spin Ordering Tendencies in Na_xCoO_2 AT $x = 1/3$ 2005 , 235-242		
25	Magnetic ground state and Fermi surface of bcc Eu. <i>Physical Review B</i> , 2004 , 70,	3.3	36
24	Correlation effects and structural dynamics in the pyrochlore superconductor KOs_2O_6 . <i>Physical Review B</i> , 2004 , 70,	3.3	99
23	Charge disproportionation and spin ordering tendencies in Na_xCoO_2 . <i>Physical Review B</i> , 2004 , 70,	3.3	127
22	Understanding the XMLD and its magnetocrystalline anisotropy at the L _{2,3} -edges of 3d transition metals. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 2146-2147	2.8	12
21	Kondo and anti-Kondo coupling to local moments in EuB_6 . <i>Physical Review B</i> , 2004 , 69,	3.3	44
20	Anisotropic x-ray magnetic linear dichroism at the L _{2,3} edges of cubic Fe, Co, and Ni: Ab initio calculations and model theory. <i>Physical Review B</i> , 2003 , 67,	3.3	59
19	Experimental and theoretical investigation of optical properties of dysprosium monopnictides. <i>Physical Review B</i> , 2003 , 68,	3.3	9
18	Self-interaction correction and contact hyperfine field. <i>Physical Review B</i> , 2003 , 67,	3.3	38
17	Theory of orbital moment collapse under pressure in FeI_2 . <i>Physical Review B</i> , 2003 , 68,	3.3	13
16	Buried antiferromagnetic films investigated by x-ray magneto-optical reflection spectroscopy. <i>Physical Review B</i> , 2003 , 67,	3.3	26
15	X-ray Faraday effect of ferromagnetic films: contribution of the core exchange splitting. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 240, 454-456	2.8	5
14	Electronic structure of magnetite. <i>Physica B: Condensed Matter</i> , 2002 , 312-313, 785-786	2.8	7
13	Electronic structure of CrO_2 as deduced from its magneto-optical Kerr spectra. <i>Physical Review B</i> , 2002 , 65,	3.3	26
12	X-ray magnetic circular dichroism studies of 5f magnetism in UCoAl and UPtAl . <i>Physical Review B</i> , 2002 , 66,	3.3	31
11	First-principles investigation of the damping of fast magnetization precession in ferromagnetic 3d metals. <i>Physical Review B</i> , 2002 , 65,	3.3	97
10	Soft X-ray magnetic dichroism and Faraday rotation measured with linearly polarised light. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001 , 467-468, 1407-1410	1.2	5
9	Magnetic, magneto-optical, and structural properties of URhAl from first-principles calculations. <i>Physical Review B</i> , 2001 , 63,	3.3	153

8	X-ray Faraday effect at the L _{2,3} edges of Fe, Co, and Ni: Theory and experiment. <i>Physical Review B</i> , 2001 , 64,	3-3	42
7	Electronic structure and magnetism in UPtAl. <i>Physical Review B</i> , 2001 , 64,	3-3	14
6	Observation of the x-ray magneto-optical Voigt effect. <i>Physical Review Letters</i> , 2001 , 87, 047401	7-4	44
5	Electronic structure of fcc Th: Spin-orbit calculation with 6p _{1/2} local orbital extension. <i>Physical Review B</i> , 2001 , 64,	3-3	215
4	de Haas-van Alphen effect and the Fermi surface of PrNi ₅ . <i>European Physical Journal B</i> , 2000 , 18, 595-600.	2	2
3	Exact many-body sum rule for the magneto-optical spectrum of solids. <i>Physical Review B</i> , 2000 , 61, 15774-15777.	3-3	11
2	Full-potential linearized augmented-plane-wave calculation of the magneto-optical Kerr effect in Fe, Co and Ni. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 6301-6309	1.8	13
1	Magneto-optical effects of Rh ₃₊ and Rh ₄₊ doped yttrium iron garnet. <i>Journal of Applied Physics</i> , 1999 , 85, 5986-5988	2.5	2