

Alexander I Lichtenstein

List of Publications by Year in descending order

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188
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16451

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193
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193
docs citations

193
times ranked

17716
citing authors

#	ARTICLE	IF	CITATIONS
1	Density-functional theory and strong interactions: Orbital ordering in Mott-Hubbard insulators. Physical Review B, 1995, 52, R5467-R5470.	3.2	3,752
2	First-principles calculations of the electronic structure and spectra of strongly correlated systems: the LDA+U method. Journal of Physics Condensed Matter, 1997, 9, 767-808.	1.8	3,137
3	Local spin density functional approach to the theory of exchange interactions in ferromagnetic metals and alloys. Journal of Magnetism and Magnetic Materials, 1987, 67, 65-74.	2.3	1,502
4	Continuous-time Monte Carlo methods for quantum impurity models. Reviews of Modern Physics, 2011, 83, 349-404.	45.6	1,185
5	Molecular Doping of Graphene. Nano Letters, 2008, 8, 173-177.	9.1	1,025
6	Half-metallic ferromagnets: From band structure to many-body effects. Reviews of Modern Physics, 2008, 80, 315-378.	45.6	860
7	LDA energy bands, low-energy hamiltonians, ϵ^2 , ϵ^3 , $\epsilon^3(k)$, and $J\epsilon^3$. Journal of Physics and Chemistry of Solids, 1995, 56, 1573-1591.	4.0	697
8	Ab initio calculations of quasiparticle band structure in correlated systems: LDA++ approach. Physical Review B, 1998, 57, 6884-6895.	3.2	589
9	Strength of Effective Coulomb Interactions in Graphene and Graphite. Physical Review Letters, 2011, 106, 236805.	7.8	453
10	Mott Transition and Suppression of Orbital Fluctuations in Orthorhombic 3d1 Perovskites. Physical Review Letters, 2004, 92, 176403.	7.8	411
11	Antiferromagnetism and d-wave superconductivity in cuprates: A cluster dynamical mean-field theory. Physical Review B, 2000, 62, R9283-R9286.	3.2	316
12	Phonon related properties of transition metals, their carbides, and nitrides: A first-principles study. Journal of Applied Physics, 2007, 101, 123519.	2.5	312
13	First-principles studies of water adsorption on graphene: The role of the substrate. Applied Physics Letters, 2008, 93, .	3.3	294
14	Exchange interactions and spin-wave stiffness in ferromagnetic metals. Journal of Physics F: Metal Physics, 1984, 14, L125-L128.	1.6	278
15	Implementation of the LDA+U method using the full-potential linearized augmented plane-wave basis. Physical Review B, 1999, 60, 10763-10769.	3.2	259
16	Conduction-band structure of alkali-metal-doped C60. Physical Review B, 1992, 46, 1773-1793.	3.2	236
17	Adsorbates on graphene: Impurity states and electron scattering. Chemical Physics Letters, 2009, 476, 125-134.	2.6	234
18	Ultrafast Transport of Laser-Excited Spin-Polarized Carriers in Au/Fe/MgO		

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19	Plane dimpling and saddle-point bifurcation in the band structures of optimally doped high-temperature superconductors: A tight-binding model. <i>Physical Review B</i> , 1994, 49, 4145-4157.	3.2	215
20	First-principles calculations of magnetic interactions in correlated systems. <i>Physical Review B</i> , 2000, 61, 8906-8912.	3.2	204
21	Current-Driven Spin Dynamics of Artificially Constructed Quantum Magnets. <i>Science</i> , 2013, 339, 55-59.	12.6	197
22	Optical near-zone-center phonons and their interaction with electrons in YBa ₂ Cu ₃ O ₇ : Results of the local-density approximation. <i>Physical Review B</i> , 1990, 42, 2692-2695.	3.2	163
23	Quantitative Model for the Superconductivity Suppression in R _{1-x} Pr _x Ba ₂ Cu ₃ O ₇ with Different Rare Earths. <i>Physical Review Letters</i> , 1995, 74, 1000-1003.	7.8	160
24	Phonons, electron-phonon, and electron-plasmon coupling in C ₆₀ compounds. <i>Physical Review B</i> , 1993, 48, 7651-7664.	3.2	159
25	Adatoms and Clusters of $3d$ Transition Metals on Graphene: Electronic and Magnetic Configurations. <i>Physical Review Letters</i> , 2013, 110, 136804.	7.8	159
26	Is Hund's Second Rule Responsible for the Orbital Magnetism in Solids?. <i>Physical Review Letters</i> , 1998, 80, 5758-5761.	7.8	157
27	Calculation of magneto-optical properties for 4f systems: LSDA + Hubbard U results. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 1521-1524.	4.0	151
28	Measuring the Dzyaloshinskii-Moriya interaction in a weak ferromagnet. <i>Nature Physics</i> , 2014, 10, 202-206.	16.7	149
29	In-Plane Magnetic Anisotropy of Fe Atoms on Bi_2Se_3 . <i>Physical Review Letters</i> , 2014, 112, 177201.	7.8	148
30	Surface states on NiO (100) and the origin of the contrast reversal in atomically resolved scanning tunneling microscope images. <i>Physical Review B</i> , 1997, 56, 4900-4908. <i>Enhanced crystal-field splitting and orbital-selective coherence induced by strong correlations</i>	3.2	129
31	in V_2O_6 . <i>Physical Review B</i> , 2007, 76, 040401.	3.2	129
32	Spin-Resolved Electronic Structure of Nanoscale Cobalt Islands on Cu(111). <i>Physical Review Letters</i> , 2006, 96, 237203.	7.8	124
33	Nature of the Mott Transition in RuO_2 . <i>Physical Review Letters</i> , 2010, 104, 226401.	7.8	123
34	Density functional study of structure and bonding in lithium clusters Li_n and their oxides Li_nO . <i>Journal of Chemical Physics</i> , 1997, 106, 4566-4574.	3.0	117
35	Photoemission Quasiparticle Spectra of Sr ₂ RuO ₄ . <i>Physical Review Letters</i> , 2000, 84, 1591-1594.	7.8	117
36	Fermi Condensation Near van Hove Singularities Within the Hubbard Model on the Triangular Lattice. <i>Physical Review Letters</i> , 2014, 112, 070403.	7.8	116

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37	Dual boson approach to collective excitations in correlated fermionic systems. <i>Annals of Physics</i> , 2012, 327, 1320-1335.	2.8	115
38	Midgap states in corrugated graphene: Ab initio calculations and effective field theory. <i>Europhysics Letters</i> , 2008, 84, 17003.	2.0	113
39	Spin-polarized relativistic linear-muffin-tin-orbital method: Volume-dependent electronic structure and magnetic moment of plutonium. <i>Physical Review B</i> , 1991, 43, 14414-14422.	3.2	110
40	Spiral-spin-density-wave states in fcc iron: Linear-muffin-tin-orbitals band-structure approach. <i>Physical Review B</i> , 1992, 45, 12330-12336.	3.2	109
41	Double counting in LDA+DMFT – The example of NiO. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 181, 11-15.	1.7	108
42	Strength of Correlation Effects in the Electronic Structure of Iron. <i>Physical Review Letters</i> , 2009, 103, 267203.	7.8	107
43	Doping mechanisms in graphene-MoS2 hybrids. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	107
44	Efficient Perturbation Theory for Quantum Lattice Models. <i>Physical Review Letters</i> , 2009, 102, 206401.	7.8	105
45	Deconfinement Transition and Luttinger to Fermi Liquid Crossover in Quasi-One-Dimensional Systems. <i>Physical Review Letters</i> , 2001, 87, 276405.	7.8	101
46	Local spin excitations and Curie temperature of iron. <i>Solid State Communications</i> , 1985, 54, 327-329.	1.9	98
47	Structural phase diagram and electron-phonon interaction in $\text{Ba}_{1-x}\text{KxBiO}_3$. <i>Physical Review B</i> , 1991, 44, 5388-5391.	3.2	96
48	Magnetic structure of FCC iron. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 7683-7690.	1.8	92
49	Quasiparticle bands and superconductivity in bilayer cuprates. <i>Physical Review B</i> , 1996, 54, 12505-12508.	3.2	91
50	LDA++ approach to the electronic structure of magnets: correlation effects in iron. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 1037-1048.	1.8	90
51	Mechanism for Orbital Ordering in KCuF_3 . <i>Physical Review Letters</i> , 2008, 101, 266405.	7.8	86
52	One-Dimensional Metallic Behavior of the Stripe Phase in $\text{La}_{2-x}\text{SrxCuO}_4$. <i>Physical Review Letters</i> , 2000, 84, 4962-4965.	7.8	81
53	Spectral Function of Ferromagnetic 3d Metals: A Self-Consistent LSDA+DMFT Approach Combined with the One-Step Model of Photoemission. <i>Physical Review Letters</i> , 2006, 97, 227601.	7.8	80
54	Quantitative theory of superconductivity in doped C_{60} . <i>Physical Review B</i> , 1992, 45, 5114-5117.	3.2	79

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55	Controlling the Kondo Effect in CoCu_n Clusters Atom by Atom. Physical Review Letters, 2008, 101, 266803.	7.8	77
56	Superconductivity, antiferromagnetism, and phase separation in the two-dimensional Hubbard model: A dual-fermion approach. Physical Review B, 2014, 90, .	3.2	77
57	Magnetism and Local Distortions near Carbon Impurity in Fe_3N -Iron. Physical Review Letters, 2007, 99, 247205.	7.8	76
58	Phonon-Mediated Tunneling into Graphene. Physical Review Letters, 2008, 101, 216803.	7.8	76
59	Beyond extended dynamical mean-field theory: Dual boson approach to the two-dimensional extended Hubbard model. Physical Review B, 2014, 90, .	3.2	76
60	Coherent Peaks and Minimal Probing Depth in Photoemission Spectroscopy of Mott-Hubbard Systems. Physical Review Letters, 2006, 97, 116401.	7.8	74
61	s-Wave Superconductivity from an Antiferromagnetic Spin-Fluctuation Model for Bilayer Materials. Physical Review Letters, 1995, 74, 2303-2306.	7.8	73
62	Electronic structure and magnetic properties of 3d impurities in ferromagnetic metals. Physical Review B, 1988, 37, 5598-5602.	3.2	71
63	Electronic structure and magnetic susceptibility of the different structural modifications of Ti, Zr, and Hf metals. Physical Review B, 1993, 48, 7841-7849.	3.2	70
64	Real-space imaging of an orbital Kondo resonance on the Cr(001) surface. Nature, 2002, 415, 507-509.	27.8	68
65	Tuning emergent magnetism in a Hund's impurity. Nature Nanotechnology, 2015, 10, 958-964.	31.5	62
66	Electron Correlations and the Minority-Spin Band Gap in Half-Metallic Heusler Alloys. Physical Review Letters, 2006, 96, 137203.	7.8	61
67	Dominance of the spin-dipolar NMR relaxation mechanism in fullerene superconductors. Physical Review B, 1993, 47, 12373-12376.	3.2	60
68	Magnetic susceptibility, exchange interactions and spin-wave spectra in the local spin density approximation. Journal of Physics Condensed Matter, 2004, 16, 7439-7446.	1.8	60
69	Two-Site Kondo Effect in Atomic Chains. Physical Review Letters, 2011, 107, 106804.	7.8	58
70	Electronic structure and magneto-optical effects in CeSb. Physical Review B, 1994, 49, 10770-10773.	3.2	57
71	Orbital magnetism in transition metal systems: The role of local correlation effects. Europhysics Letters, 2008, 82, 37001.	2.0	57
72	Out-of-plane instability and electron-phonon contribution to s- and d-wave pairing in high-temperature superconductors; LDA linear-response calculation for doped CaCuO_2 and a generic tight-binding model. Journal of Low Temperature Physics, 1996, 105, 285-304.	1.4	56

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73	Spectral properties and pseudogap in the stripe phases of cuprate superconductors. <i>Physical Review B</i> , 2001, 64, .	3.2	54
74	Anisotropic thermal expansion in silicates: A density functional study of β -eucryptite and related materials. <i>Physical Review B</i> , 2000, 62, 11487-11493.	3.2	53
75	Collective charge excitations of strongly correlated electrons, vertex corrections, and gauge invariance. <i>Physical Review B</i> , 2014, 90, .	3.2	51
76	Nature of non-magnetic strongly-correlated state in $\hat{\Gamma}$ -plutonium. <i>Europhysics Letters</i> , 2006, 74, 479-485.	2.0	50
77	Multiorbital Kondo physics of Co in Cu hosts. <i>Physical Review B</i> , 2012, 85, .	3.2	50
78	Mechanisms of finite-temperature magnetism in the three-dimensional Hubbard model. <i>Physical Review B</i> , 2015, 92, .	3.2	50
79	Anisotropic thermal expansion in the silicate β -eucryptite: A neutron diffraction and density functional study. <i>Physical Review B</i> , 1998, 58, 6219-6223.	3.2	49
80	Plasmons in Strongly Correlated Systems: Spectral Weight Transfer and Renormalized Dispersion. <i>Physical Review Letters</i> , 2014, 113, 246407.	7.8	49
81	Superperturbation solver for quantum impurity models. <i>Europhysics Letters</i> , 2009, 85, 27007.	2.0	46
82	The influence of structural defects on the electronic properties of interstitial alloys ϵ -I. Lattice vacancies. <i>Journal of Physics and Chemistry of Solids</i> , 1988, 49, 465-477.	4.0	43
83	Local Gating of an Ir(111) Surface Resonance by Graphene Islands. <i>Physical Review Letters</i> , 2012, 108, 206805.	7.8	43
84	Electronic structure and core-level spectra of light actinide dioxides in the dynamical mean-field theory. <i>Physical Review B</i> , 2015, 92, .	3.2	43
85	Orientalional order in A3C60: Antiferromagnetic Ising model for the fcc lattice. <i>Physical Review Letters</i> , 1993, 70, 4142-4145.	7.8	40
86	Displacive excitation of coherent phonons in YBa2Cu3O7. <i>Physical Review B</i> , 1994, 49, 9210-9213.	3.2	38
87	Superconducting pairing of spin polarons in the t-J model. <i>Physical Review B</i> , 1997, 55, R11997-R12000.	3.2	38
88	Structural distortions and orbital ordering in LaTiO ₃ and YTiO ₃ . <i>Europhysics Letters</i> , 2005, 70, 499-505.	2.0	38
89	Non-equilibrium magnetic interactions in strongly correlated systems. <i>Annals of Physics</i> , 2013, 333, 221-271.	2.8	38
90	On the Origin of Short-Range Order above T_c in Fe, Co, Ni. <i>Europhysics Letters</i> , 1990, 12, 545-550.	2.0	37

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91	Theory of non-Heisenberg exchange: Results for localized and itinerant magnets. Journal of Applied Physics, 1996, 79, 4805.	2.5	37
92	Defects in half-metals and finite temperature. Journal of Physics Condensed Matter, 2004, 16, S5517-S5524.	1.8	37
93	Half-Metallic Ferromagnetism Induced by Dynamic Electron Correlations in VAs. Physical Review Letters, 2006, 96, 197203.	7.8	37
94	Fermi-surface and low-energy excitation spectrum of YBa ₂ Cu ₃ O ₇ : Role of the Ba-O plane. Physical Review B, 1992, 45, 5103-5106.	3.2	36
95	Valence band resonant photoemission of Mn ₁₂ single molecules grafted on Au(111) surface. Surface Science, 2006, 600, 4185-4189.	1.9	35
96	Orbital Kondo Effect in Cobalt-Benzene Sandwich Molecules. Physical Review Letters, 2011, 107, 146604.	7.8	33
97	Dynamical Mean-Field Theory for Doped Antiferromagnets. Physical Review Letters, 1998, 80, 2393-2396.	7.8	32
98	Shifting the Voltage Drop in Electron Transport Through a Single Molecule. Physical Review Letters, 2015, 115, 016802.	7.8	32
99	Structure and electronic properties of new rutile-like rhenium (IV) dioxide ReO ₂ . Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 348, 66-70.	2.1	31
100	Dual-fermion approach to non-equilibrium strongly correlated problems. Annalen Der Physik, 2012, 524, 49-61.	2.4	29
101	Phonon-Pump Extreme-Ultraviolet-Photoemission Probe in Graphene: Anomalous Heating of Dirac Carriers by Lattice Deformation. Physical Review Letters, 2015, 114, 125503.	7.8	29
102	Valence-band satellite in ferromagnetic nickel: LDA+DMFT study with exact diagonalization. Physical Review B, 2012, 85, .	3.2	28
103	Nonperturbative Scaling Theory of Free Magnetic Moment Phases in Disordered Metals. Physical Review Letters, 2007, 99, 247202.	7.8	27
104	Metal-insulator transition by suppression of spin fluctuations. Europhysics Letters, 2009, 85, 37006.	2.0	27
105	Effect of Ligand Substitution on the Exchange Interactions in {Mn ₁₂ }-Type Single-Molecule Magnets. Inorganic Chemistry, 2010, 49, 10902-10906.	4.0	27
106	A Green's-Function Approach to Exchange Spin Coupling As a New Tool for Quantum Chemistry. Journal of Chemical Theory and Computation, 2015, 11, 5651-5664.	5.3	27
107	Double occupancy in dynamical mean-field theory and the dual boson approach. Physical Review B, 2016, 93, .	3.2	26
108	Boson-exchange parquet solver for dual fermions. Physical Review B, 2020, 102, .	3.2	26

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109	Ab-initio calculation of the charge and lattice modulation in BaBiO ₃ . Solid State Communications, 1991, 80, 325-329.	1.9	25
110	Enhanced Screening in Chemically Functionalized Graphene. Physical Review Letters, 2012, 109, 156601.	7.8	25
111	Magnetic interactions in strongly correlated systems: Spin and orbital contributions. Annals of Physics, 2015, 360, 61-97.	2.8	25
112	Conservation in two-particle self-consistent extensions of dynamical mean-field theory. Physical Review B, 2017, 96, .	3.2	25
113	Spectral and transport properties of doped Mott-Hubbard systems with incommensurate magnetic order. Physical Review B, 1999, 60, 5224-5243.	3.2	24
114	Ab initio phonon calculations for L1 ₂ Ni ₃ Al and B2 NiAl. Solid State Communications, 2004, 129, 809-814.	1.9	24
115	Non-quasiparticle effects in half-metallic ferromagnets. Journal of Physics Condensed Matter, 2007, 19, 315201.	1.8	23
116	Correlated Electrons Step by Step: Itinerant-to-Localized Transition of Fe Impurities in Free-Electron Metal Hosts. Physical Review Letters, 2010, 104, 117601.	7.8	22
117	Electronic structure and magnetism of samarium and neodymium adatoms on free-standing graphene. Physical Review B, 2016, 94, .	3.2	22
118	Electronic structure and magnetic properties of 3d impurities in antiferromagnetic metals. Physical Review B, 1988, 37, 5603-5605.	3.2	21
119	Low-energy interband transitions in YBa ₂ Cu ₃ O ₇ . Physical Review B, 1992, 46, 11232-11235.	3.2	21
120	Experimental Observation and Theoretical Description of the Pure Fano Effect in the Valence-Band Photoemission of Ferromagnets. Physical Review Letters, 2005, 95, 166401.	7.8	21
121	Fermion-boson vertex within dynamical mean-field theory. Physical Review B, 2018, 98, .	3.2	21
122	Superconducting and transport electron-phonon coupling constants in YBa ₂ Cu ₃ O ₇ : effect of the interband anisotropy. Physica C: Superconductivity and Its Applications, 1993, 209, 125-128.	1.2	20
123	Location of holes in Y _{1-x} Pr _x Ba ₂ Cu ₃ O ₇ . Physical Review B, 1998, 57, 150-152.	3.2	20
124	Electronic structure and exchange interactions in V15 magnetic molecules: LDA+U results. Journal of Applied Physics, 2003, 93, 7080-7082.	2.5	20
125	Plaquette valence bond theory of high-temperature superconductivity. Physical Review B, 2016, 94, .	3.2	20
126	Two-particle Fermi liquid parameters at the Mott transition: Vertex divergences, Landau parameters, and incoherent response in dynamical mean-field theory. Physical Review B, 2019, 99, .	3.2	20

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127	The influence of structural defects on the electronic properties of interstitial alloys ^{II} . Metal substitutional impurities. Journal of Physics and Chemistry of Solids, 1988, 49, 479-486.	4.0	19
128	Kondo Resonance for Orbitally Degenerate Systems. Physical Review Letters, 2004, 93, 236403.	7.8	18
129	Multiplet effects in the electronic structure of heavy rare-earth metals. Journal of Physics Condensed Matter, 2006, 18, 6329-6335.	1.8	18
130	$\hat{\Gamma}^3$ -Mn at the border between weak and strong correlations. European Physical Journal B, 2009, 72, 473-478.	1.5	18
131	Thermodynamic consistency of the charge response in dynamical mean-field based approaches. Physical Review B, 2015, 92, .	3.2	18
132	Exact diagonalization solver for extended dynamical mean-field theory. Physical Review B, 2017, 96, .	3.2	18
133	Fluctuation diagnostic of the nodal/antinodal dichotomy in the Hubbard model at weak coupling: A parquet dual fermion approach. Physical Review B, 2020, 102, .	3.2	18
134	Coexisting charge density wave and ferromagnetic instabilities in monolayer InSe. Npj Computational Materials, 2022, 8, .	8.7	18
135	Orbital magnetism in FeO. Journal of Magnetism and Magnetic Materials, 1998, 185, 118-120.	2.3	16
136	Spin-polarized tunneling microscopy and the Kondo effect. Physical Review B, 2007, 76, .	3.2	16
137	Electron-boson interaction can help d wave pairing self-consistent approach. Physica C: Superconductivity and Its Applications, 1995, 245, 186-192.	1.2	15
138	Electron-lattice interactions in the perovskite $\text{LaFe}_{1-x}\text{Mn}_x\text{O}_5$ by optical spectroscopy and $\text{LaFe}_{1-x}\text{Mn}_x\text{O}_5$. Physical Review B, 2009, 80, .	3.2	15
139	Long-lived nonequilibrium states in the Hubbard model with an electric field. Physical Review B, 2015, 91, .	3.2	15
140	Extended S wave and gapless superconductivity due to antiferromagnetism A model inspired by HTS. Physica C: Superconductivity and Its Applications, 1995, 244, 185-192.	1.2	14
141	Orbital moment of a single Co atom on a Pt(111) surface—a view from correlated band theory. Journal of Physics Condensed Matter, 2008, 20, 015002.	1.8	14
142	Excitation Spectra of Transition-Metal Atoms on the Ag (100) Surface Controlled by Hund's Exchange. Physical Review Letters, 2013, 110, 186404.	7.8	14
143	Quantum spin fluctuations and evolution of electronic structure in cuprates. Npj Quantum Materials, 2018, 3, .	5.2	14
144	Correlation of Yu-Shiba-Rusinov States and Kondo Resonances in Artificial Spin Arrays on an s-Wave Superconductor. Nano Letters, 2021, 21, 6748-6755.	9.1	14

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145	Interpretation of de Haas-van Alphen measurements on YBa ₂ Cu ₃ O ₇ . Physical Review Letters, 1992, 68, 3936-3936.	7.8	13
146	Atomic clusters of magnetic oxides: Structure and phonons. Journal of Applied Physics, 2003, 93, 7379-7381.	2.5	13
147	Multiband dual fermion approach to quantum criticality in the Hubbard honeycomb lattice. Physical Review B, 2018, 97, .	3.2	13
148	Magnetic transition state approach to ferromagnetism of metals: Ni. Journal of Magnetism and Magnetic Materials, 1983, 36, 125-130.	2.3	12
149	Antiferromagnetic interactions and the superconducting gap function. Physical Review B, 1996, 53, 5137-5140.	3.2	12
150	Electronic structure and magnetic properties of solids. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, .	0.8	12
151	Plasmon damping and response function in doped compounds. Journal of Physics Condensed Matter, 1996, 8, 4001-4016.	1.8	11
152	Cluster dynamical mean-field calculations for TiOCl. New Journal of Physics, 2007, 9, 380-380.	2.9	11
153	Ultrafast dynamics at lanthanide surfaces: microscopic interaction of the charge, lattice and spin subsystems. Journal Physics D: Applied Physics, 2008, 41, 164004.	2.8	11
154	Orbital Isotropy of Magnetic Fluctuations in Correlated Electron Materials Induced by Hund's Exchange Coupling. Physical Review Letters, 2021, 127, 207205.	7.8	11
155	Degenerate plaquette physics as key ingredient of high-temperature superconductivity in cuprates. Npj Quantum Materials, 2022, 7, .	5.2	11
156	NMR relaxation rates in superconductors with (in)commensurate magnetic order a model inspired by high-T _c superconductors. Physica C: Superconductivity and Its Applications, 1995, 252, 27-48.	1.2	10
157	Collective magnetic fluctuations in Hubbard plaquettes captured by fluctuating local field method. Physical Review B, 2020, 102, .	3.2	10
158	Correlation effects in the photoelectron spectra of nickel. Solid State Communications, 1981, 40, 927-928.	1.9	9
159	Dual fermion method as a prototype of generic reference-system approach for correlated fermions. Annals of Physics, 2020, 422, 168310.	2.8	9
160	Detecting quantum critical points in the t-t' Fermi-Hubbard model via complex network theory. Scientific Reports, 2020, 10, 20470.	3.3	9
161	Electronic correlations and competing orders in multiorbital dimers: A cluster DMFT study. Physical Review B, 2019, 99, .	3.2	8
162	Parametrizations of local vertex corrections from weak to strong coupling: Importance of the Hedin three-leg vertex. Physical Review B, 2021, 104, .	3.2	8

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163	Momentum dependence of the linewidth of Raman-active phonons in the normal state of YBa ₂ Cu ₃ O ₇ . Physical Review B, 1995, 51, 3961-3964.	3.2	7
164	Theory of optically forbidden d-d transitions in strongly correlated crystals. Journal of Physics Condensed Matter, 2010, 22, 382201.	1.8	7
165	Spin-spin correlations in ferromagnetic nanosystems. European Physical Journal B, 2011, 80, 331-336.	1.5	7
166	From Hubbard bands to spin-polaron excitations in the doped Mott material Na _{1-x} Co _x O ₂ . Physical Review B, 2015, 91, .	3.2	7
167	Relaxation and decoherence of qubits encoded in collective states of engineered magnetic structures. Physical Review B, 2017, 96, .	3.2	7
168	Exactly solvable model of strongly correlated d-wave superconductivity. Physical Review B, 2020, 101, .	3.2	7
169	Plasmon dispersion and broadening in A ₃ C ₆₀ (A=K, Rb). Physical Review B, 1996, 53, 3455-3458.	3.2	6
170	Orbital magnetic moment enhancement at surfaces and interfaces within the framework of the local density approximation+U method. Journal of Applied Physics, 1998, 83, 7022-7024.	2.5	6
171	Probing the Kondo screening cloud via tunneling-current conductance fluctuations. Physical Review B, 2009, 80, .	3.2	6
172	Magnetic anisotropy energy and effective exchange interactions in Co intercalated graphene on Ir(111). Journal of Physics Condensed Matter, 2014, 26, 476003.	1.8	6
173	Spin and orbital exchange interactions from Dynamical Mean Field Theory. Journal of Magnetism and Magnetic Materials, 2016, 400, 112-116.	2.3	6
174	Exact real-time dynamics of single-impurity Anderson model from a single-spin hybridization-expansion. SciPost Physics, 2019, 7, .	4.9	5
175	Electronic structure and elastic properties of Au/Cr(001) superlattices. Physical Review B, 1995, 51, 4497-4506.	3.2	4
176	Orbital magnetic moment and extrinsic spin Hall effect for iron impurities in gold. Physical Review B, 2011, 84, .	3.2	4
177	Josephson lattice model for phase fluctuations of local pairs in copper oxide superconductors. Physical Review B, 2019, 100, .	3.2	4
178	Three-molecular-orbital treatment of the orientational ordering in A ₃ C ₆₀ . Solid State Communications, 1994, 91, 497-500.	1.9	3
179	Theoretical search for bistability of apical oxygen in YBa ₂ Cu ₃ O ₇ . The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 70, 643-646.	0.6	3
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