

# Karsten Held

## List of Publications by Citations

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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.

195  
papers

8,401  
citations

52  
h-index

84  
g-index

204  
ext. papers

9,587  
ext. citations

5  
avg. IF

6.25  
L-index

#	Paper	IF	Citations
195	Electronic structure calculations using dynamical mean field theory. <i>Advances in Physics</i> , <b>2007</b> , 56, 829-926.	16.4	315
194	Wien2wannier: From linearized augmented plane waves to maximally localized Wannier functions. <i>Computer Physics Communications</i> , <b>2010</b> , 181, 1888-1895	4.2	312
193	Markov random field segmentation of brain MR images. <i>IEEE Transactions on Medical Imaging</i> , <b>1997</b> , 16, 878-86	11.7	300
192	Dynamical vertex approximation: A step beyond dynamical mean-field theory. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	262
191	Theory of spin-orbit coupling at LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interfaces and SrTiO <sub>3</sub> surfaces. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	252
190	Controlled lateral anisotropy in correlated manganite heterostructures by interface-engineered oxygen octahedral coupling. <i>Nature Materials</i> , <b>2016</b> , 15, 425-31	27	233
189	Mott-hubbard metal-insulator transition in paramagnetic V <sub>2</sub> O <sub>3</sub> : an LDA+DMFT(QMC) study. <i>Physical Review Letters</i> , <b>2001</b> , 86, 5345-8	7.4	211
188	Turning a nickelate Fermi surface into a cupratelike one through heterostructuring. <i>Physical Review Letters</i> , <b>2009</b> , 103, 016401	7.4	200
187	Mutual experimental and theoretical validation of bulk photoemission spectra of Sr <sub>1-x</sub> CaxVO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2004</b> , 93, 156402	7.4	177
186	Kinks in the dispersion of strongly correlated electrons. <i>Nature Physics</i> , <b>2007</b> , 3, 168-171	16.2	157
185	Diagrammatic routes to nonlocal correlations beyond dynamical mean field theory. <i>Reviews of Modern Physics</i> , <b>2018</b> , 90,	40.5	156
184	Cerium volume collapse: results from the merger of dynamical mean-field theory and local density approximation. <i>Physical Review Letters</i> , <b>2001</b> , 87, 276404	7.4	155
183	Realistic investigations of correlated electron systems with LDA + DMFT. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 2599-2631	1.3	148
182	Prominent quasiparticle peak in the photoemission spectrum of the metallic phase of V <sub>2</sub> O <sub>3</sub> . <i>Physical Review Letters</i> , <b>2003</b> , 90, 186403	7.4	130
181	Microscopic conditions favoring itinerant ferromagnetism: Hund's rule coupling and orbital degeneracy. <i>European Physical Journal B</i> , <b>1998</b> , 5, 473-478	1.2	122
180	Thermodynamic and spectral properties of compressed Ce calculated using a combined local-density approximation and dynamical mean-field theory. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	105
179	A microscopic view on the Mott transition in chromium-doped V(2)O(3). <i>Nature Communications</i> , <b>2010</b> , 1, 105	17.4	101

178	Dichotomy between large local and small ordered magnetic moments in iron-based superconductors. <i>Physical Review Letters</i> , <b>2010</b> , 104, 197002	7.4	100
177	Comparing pertinent effects of antiferromagnetic fluctuations in the two- and three-dimensional Hubbard model. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	100
176	Electronic structure of paramagnetic V2O3: Strongly correlated metallic and Mott insulating phase. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	98
175	Fate of the false Mott-Hubbard transition in two dimensions. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	96
174	Momentum-resolved spectral functions of SrVO3 calculated by LDA+DMFT. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	95
173	From infinite to two dimensions through the functional renormalization group. <i>Physical Review Letters</i> , <b>2014</b> , 112, 196402	7.4	92
172	Oxide heterostructures for efficient solar cells. <i>Physical Review Letters</i> , <b>2013</b> , 110, 078701	7.4	92
171	Microscopic conditions favoring itinerant ferromagnetism. <i>Physical Review B</i> , <b>1998</b> , 58, 12749-12757	3.3	90
170	Comparative study of correlation effects in CaVO3 and SrVO3. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	88
169	Anisotropic two-dimensional electron gas at SrTiO3(110). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 3933-7	11.5	83
168	Critical properties of the half-filled Hubbard model in three dimensions. <i>Physical Review Letters</i> , <b>2011</b> , 107, 256402	7.4	82
167	Pressure-induced metal-insulator transition in LaMnO3 is not of Mott-Hubbard type. <i>Physical Review Letters</i> , <b>2006</b> , 96, 166401	7.4	78
166	REALISTIC MODELING OF STRONGLY CORRELATED ELECTRON SYSTEMS: AN INTRODUCTION TO THE LDA+DMFT APPROACH. <i>International Journal of Modern Physics B</i> , <b>2001</b> , 15, 2611-2625	1.1	76
165	One-particle irreducible functional approach: A route to diagrammatic extensions of the dynamical mean-field theory. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	73
164	Quasiparticle evolution and pseudogap formation in V2O3: An infrared spectroscopy study. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	71
163	Dynamical vertex approximation in its parquet implementation: Application to Hubbard nanorings. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	68
162	Non-perturbative approaches to magnetism in strongly correlated electron systems. <i>Zeitschrift für Physik B-Condensed Matter</i> , <b>1996</b> , 103, 283-292		68
161	Conserved quantities of SU(2)-invariant interactions for correlated fermions and the advantages for quantum Monte Carlo simulations. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	65

160	Orbital-selective Mott-Hubbard transition in the two-band Hubbard model. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	64
159	Calculation of photoemission spectra of the doped Mott insulator using LDA+DMFT(QMC). <i>European Physical Journal B</i> , <b>2000</b> , 18, 55-61	1.2	60
158	Inequivalent routes across the Mott transition in V2O3 explored by X-ray absorption. <i>Physical Review Letters</i> , <b>2010</b> , 104, 047401	7-4	59
157	Correlated electron tunneling through two separate quantum dot systems with strong capacitive interdot coupling. <i>Physical Review Letters</i> , <b>2008</b> , 101, 186804	7-4	59
156	Static versus dynamical mean-field theory of Mott antiferromagnets. <i>Physical Review B</i> , <b>2006</b> , 73,	3-3	59
155	Efficient implementation of the parquet equations: Role of the reducible vertex function and its kernel approximation. <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	58
154	Electronic structure of nickelates: From two-dimensional heterostructures to three-dimensional bulk materials. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	58
153	Raman-scattering measurements and theory of the energy-momentum spectrum for underdoped Bi2Sr2CaCuO(8+ $\delta$ ) superconductors: evidence of an s-wave structure for the pseudogap. <i>Physical Review Letters</i> , <b>2013</b> , 111, 107001	7-4	57
152	Electronic correlations in manganites. <i>Physical Review Letters</i> , <b>2000</b> , 84, 5168-71	7-4	57
151	Electronics with Correlated Oxides: SrVO(3)/SrTiO(3) as a Mott Transistor. <i>Physical Review Letters</i> , <b>2015</b> , 114, 246401	7-4	56
150	Dynamical Vertex Approximation. <i>Progress of Theoretical Physics Supplement</i> , <b>2008</b> , 176, 117-133		56
149	Quantum dynamical screening of the local magnetic moment in Fe-based superconductors. <i>Physical Review B</i> , <b>2012</b> , 86,	3-3	54
148	Metallic ferromagnetism: Progress in our understanding of an old strong-coupling problem. <i>Festkörperprobleme</i> , <b>1999</b> , 383-396		54
147	Local magnetic moments in iron and nickel at ambient and Earth@ core conditions. <i>Nature Communications</i> , <b>2017</b> , 8, 16062	17-4	53
146	Momentum-resolved spin dynamics of bulk and surface excited States in the topological insulator Bi(2)Se(3). <i>Physical Review Letters</i> , <b>2015</b> , 114, 097401	7-4	52
145	Nickelate superconductors@ renaissance of the one-band Hubbard model. <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	52
144	Topotactic Hydrogen in Nickelate Superconductors and Akin Infinite-Layer Oxides ABO_{2}. <i>Physical Review Letters</i> , <b>2020</b> , 124, 166402	7-4	52
143	w2dynamics: Local one- and two-particle quantities from dynamical mean field theory. <i>Computer Physics Communications</i> , <b>2019</b> , 235, 388-399	4-2	51

142	Mott-Hubbard transition in V <sub>2</sub> O <sub>3</sub> revisited. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 1251-1264.	1.3	50
141	Doped Mott insulator as the origin of heavy-fermion behavior in LiV <sub>2</sub> O <sub>4</sub> . <i>Physical Review Letters</i> , <b>2007</b> , 98, 166402	7.4	50
140	Similarities between the hubbard and periodic anderson models at finite temperatures. <i>Physical Review Letters</i> , <b>2000</b> , 85, 373-6	7.4	48
139	Ab initio dynamical vertex approximation. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	47
138	Electronic reconstruction at the isopolar LaTiO(3)/LaFeO(3) interface: an X-ray photoemission and density-functional theory study. <i>Physical Review Letters</i> , <b>2014</b> , 113, 237402	7.4	47
137	Effective on-site interaction for dynamical mean-field theory. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	47
136	Comparing quasiparticle GW+DMFT and LDA+DMFT for the test bed material SrVO <sub>3</sub> . <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	46
135	Dynamical vertex approximation for nanoscopic systems. <i>Physical Review Letters</i> , <b>2010</b> , 104, 246402	7.4	46
134	Thickness Dependent Properties in Oxide Heterostructures Driven by Structurally Induced Metal-Oxygen Hybridization Variations. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606717	15.6	43
133	Quantum Anomalous Hall State in Ferromagnetic SrRuO <sub>3</sub> (111) Bilayers. <i>Physical Review Letters</i> , <b>2017</b> , 119, 026402	7.4	43
132	Role of impact ionization in the thermalization of photoexcited Mott insulators. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	42
131	Pseudogap of metallic layered nickelate R(2-x)Sr(x)NiO <sub>4</sub> (R = Nd, Eu) crystals measured using angle-resolved photoemission spectroscopy. <i>Physical Review Letters</i> , <b>2011</b> , 106, 027001	7.4	42
130	Cluster-size dependence in cellular dynamical mean-field theory. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	42
129	Origin of large thermopower in LiRh <sub>2</sub> O <sub>4</sub> : Calculation of the Seebeck coefficient by the combination of local density approximation and dynamical mean-field theory. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	42
128	Chebyshev expansion for impurity models using matrix product states. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	40
127	Size control of charge-orbital order in half-doped manganite La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2011</b> , 107, 197202	7.4	38
126	Quantum Monte Carlo study for multiorbital systems with preserved spin and orbital rotational symmetries. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	37
125	Signature of antiferromagnetic long-range order in the optical spectrum of strongly correlated electron systems. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	36

124	Ultrafast and Gigantic Spin Injection in Semiconductors. <i>Physical Review Letters</i> , <b>2016</b> , 116, 196601	7.4	35
123	Continuous-time quantum Monte Carlo using worm sampling. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	35
122	Orbital state and magnetic properties of LiV <sub>2</sub> O <sub>4</sub> . <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	35
121	Efficient DMFT impurity solver using real-time dynamics with matrix product states. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	34
120	Importance of d <sub>xy</sub> -Coulomb interaction for high T <sub>c</sub> cuprates and other oxides. <i>New Journal of Physics</i> , <b>2014</b> , 16, 033009	2.9	34
119	Divergences of the irreducible vertex functions in correlated metallic systems: Insights from the Anderson impurity model. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	34
118	Subpicosecond spin dynamics of excited states in the topological insulator Bi <sub>2</sub> Te <sub>3</sub> . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	33
117	Double quantum dot as a minimal thermoelectric generator. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	33
116	Route to room-temperature ferromagnetic ultrathin SrRuO <sub>3</sub> films. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	33
115	Nonlocal correlations and spectral properties of the Falicov-Kimball model. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	32
114	Correlated-electron theory of strongly anisotropic metamagnets. <i>Physical Review B</i> , <b>1997</b> , 56, 14469-14480	4.9	32
113	Magnetic Behavior of Volborthite Cu <sub>3</sub> V <sub>2</sub> O <sub>7</sub> (OH) <sub>2</sub> H <sub>2</sub> O Determined by Coupled Trimers Rather than Frustrated Chains. <i>Physical Review Letters</i> , <b>2016</b> , 117, 037206	7.4	31
112	Merging GW with DMFT and non-local correlations beyond. <i>European Physical Journal: Special Topics</i> , <b>2017</b> , 226, 2565-2590	2.3	30
111	Pressure and alloying effects on the metal to insulator transition in NiS <sub>2-x</sub> Se <sub>x</sub> studied by infrared spectroscopy. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	30
110	Filling of the mott-hubbard gap in the high temperature photoemission spectrum of (V <sub>0.972</sub> Cr <sub>0.028</sub> ) <sub>2</sub> O <sub>3</sub> . <i>Physical Review Letters</i> , <b>2004</b> , 93, 076404	7.4	30
109	Worm-improved estimators in continuous-time quantum Monte Carlo. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	30
108	Effective crystal field and Fermi surface topology: A comparison of d- and dp-orbital models. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	29
107	Why the critical temperature of high-T <sub>c</sub> cuprate superconductors is so low: The importance of the dynamical vertex structure. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	28

106	Screened moments and absence of ferromagnetism in FeAl. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	28
105	Poor many understanding of kinks originating from strong electronic correlations. <i>Physical Review Letters</i> , <b>2013</b> , 110, 246402	7.4	28
104	Ab initio calculations with the dynamical vertex approximation. <i>Annalen Der Physik</i> , <b>2011</b> , 523, 698-705	2.6	28
103	Continuous-time quantum Monte Carlo calculation of multiorbital vertex asymptotics. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	27
102	Projective quantum monte carlo method for the anderson impurity model and its application to dynamical mean field theory. <i>Physical Review Letters</i> , <b>2004</b> , 93, 136405	7.4	27
101	Interplay of Correlations and Kohn Anomalies in Three Dimensions: Quantum Criticality with a Twist. <i>Physical Review Letters</i> , <b>2017</b> , 119, 046402	7.4	26
100	Unified Picture for the Colossal Thermopower Compound FeSb <sub>2</sub> . <i>Physical Review Letters</i> , <b>2015</b> , 114, 236603	3.3	26
99	Quantum confinement in perovskite oxide heterostructures: Tight binding instead of a nearly free electron picture. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	26
98	Kinks in the electronic specific heat. <i>Physical Review Letters</i> , <b>2009</b> , 102, 076402	7.4	26
97	High-frequency asymptotics of the vertex function: Diagrammatic parametrization and algorithmic implementation. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	26
96	Bandstructure meets many-body theory: the LDA+DMFT method. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 064202	1.8	25
95	Sr <sub>2</sub> VO <sub>4</sub> and Ba <sub>2</sub> VO <sub>4</sub> under pressure: An orbital switch and potential d <sub>1</sub> superconductor. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	25
94	Giant Switchable Rashba Effect in Oxide Heterostructures. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1400445	4.5	23
93	Enhancement of the Na <sub>x</sub> CoO <sub>2</sub> thermopower due to electronic correlations. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	23
92	Mott transition of the f-electron system in the periodic Anderson model with nearest neighbor hybridization. <i>European Physical Journal B</i> , <b>2000</b> , 17, 7-10	1.2	23
91	Truncated unity parquet solver. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	22
90	Generic Optical Excitations of Correlated Systems: Fasons. <i>Physical Review Letters</i> , <b>2020</b> , 124, 047401	7.4	22
89	Charge self-consistency in density functional theory combined with dynamical mean field theory: k-space reoccupation and orbital order. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	22

88	Anisotropic optical conductivity of the putative Kondo insulator CeRu <sub>4</sub> Sn <sub>6</sub> . <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	22
87	Dephasing times in closed quantum dots. <i>Physical Review Letters</i> , <b>2002</b> , 88, 136801	7.4	22
86	Dynamical vertex approximation for the two-dimensional Hubbard model. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 400, 107-111	2.8	22
85	Topological Dirac semimetal phase in Pd and Pt oxides. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	20
84	Magnetism in Sr <sub>2</sub> CrMoO <sub>6</sub> : A combined ab initio and model study. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	19
83	Microscopic understanding of the orbital splitting and its tuning at oxide interfaces. <i>Europhysics Letters</i> , <b>2012</b> , 99, 37011	1.6	19
82	Correlation effects in transport properties of interacting nanostructures. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	19
81	Quantum Boltzmann equation for strongly correlated systems: Comparison to dynamical mean field theory. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	19
80	Evolution of the electronic structure of a Mott system across its phase diagram: X-ray absorption spectroscopy study of (V <sub>1-x</sub> Cr <sub>x</sub> ) <sub>2</sub> O <sub>3</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	18
79	High-temperature optical spectral weight and fermi-liquid renormalization in bi-based cuprate superconductors. <i>Physical Review Letters</i> , <b>2010</b> , 105, 077002	7.4	18
78	The victory project v1.0: An efficient parquet equations solver. <i>Computer Physics Communications</i> , <b>2019</b> , 241, 146-154	4.2	17
77	Role of three-particle vertex within dual fermion calculations. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	17
76	Effects of electronic correlations and disorder on the thermopower of Na <sub>x</sub> CoO <sub>2</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	17
75	Dynamical Mean-Field Theory and Its Applications to Real Materials. <i>Journal of the Physical Society of Japan</i> , <b>2005</b> , 74, 136-146	1.5	16
74	Effective magnetic correlations in hole-doped graphene nanoflakes. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	16
73	Momentum structure of the self-energy and its parametrization for the two-dimensional Hubbard model. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	15
72	Cubic interaction parameters for t <sub>2g</sub> Wannier orbitals. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	14
71	Dipole matrix element approach versus Peierls approximation for optical conductivity. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	14



70	Localization of strongly correlated electrons as Jahn-Teller polarons in manganites. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	14
69	Terahertz Excitons in Carbon Nanotubes: Exciton Autoionization and Multiplication. <i>Nano Letters</i> , <b>2020</b> , 20, 3098-3105	11.5	13
68	Impact ionization processes in the steady state of a driven Mott-insulating layer coupled to metallic leads. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	13
67	Symmetric improved estimators for continuous-time quantum Monte Carlo. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	13
66	Tunable site- and orbital-selective Mott transition and quantum confinement effects in La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> nanoclusters. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	13
65	Parquet approximation for molecules: Spectrum and optical conductivity of the Pariser-Parr-Pople model. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	12
64	Electric field controllable high-spin SrRuO <sub>3</sub> driven by a solid ionic junction. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	12
63	Local correlation functions of arbitrary order for the Falicov-Kimball model. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	11
62	Surface Effects on the Mott-Hubbard Transition in Archetypal V <sub>2</sub> O <sub>3</sub> . <i>Physical Review Letters</i> , <b>2015</b> , 115, 236802	7.4	11
61	Atomic and itinerant effects at the transition-metal x-ray absorption K pre-edge exemplified in the case of V <sub>2</sub> O <sub>3</sub> . <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	11
60	CORRELATED-ELECTRON THEORY OF METAMAGNETISM IN STRONGLY ANISOTROPIC ANTIFERROMAGNETS. <i>Modern Physics Letters B</i> , <b>1996</b> , 10, 203-210	1.6	11
59	Robust skyrmion-bubble textures in SrRuO <sub>3</sub> thin films stabilized by magnetic anisotropy. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	11
58	Electronic structure of CeRu <sub>4</sub> Sn <sub>6</sub> : a density functional plus dynamical mean field theory study. <i>European Physical Journal B</i> , <b>2016</b> , 89, 1	1.2	11
57	Defect-Engineered Dzyaloshinskii-Moriya Interaction and Electric-Field-Switchable Topological Spin Texture in SrRuO. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102525	24	11
56	Quantum Criticality in the Two-Dimensional Periodic Anderson Model. <i>Physical Review Letters</i> , <b>2019</b> , 122, 227201	7.4	10
55	Parquet dual fermion approach for the Falicov-Kimball model. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	10
54	woptic: Optical conductivity with Wannier functions and adaptive k-mesh refinement. <i>Computer Physics Communications</i> , <b>2016</b> , 202, 1-11	4.2	10
53	Random matrix theory for closed quantum dots with weak spin-orbit coupling. <i>Physical Review Letters</i> , <b>2003</b> , 90, 106802	7.4	10

52	Towards ab initio Calculations with the Dynamical Vertex Approximation. <i>Journal of the Physical Society of Japan</i> , <b>2018</b> , 87, 041004	1.5	9
51	Orbital characters of three-dimensional Fermi surfaces in $\text{Eu}_2\text{Sr}_x\text{NiO}_4$ as probed by soft-x-ray angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	9
50	Real-space mapping of electronic orbitals. <i>Ultramicroscopy</i> , <b>2017</b> , 177, 26-29	3.1	8
49	Competition between antiferromagnetic and charge density wave fluctuations in the extended Hubbard model. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	8
48	The AbinitioD $\Gamma$ Project v1.0: Non-local correlations beyond and susceptibilities within dynamical mean-field theory. <i>Computer Physics Communications</i> , <b>2019</b> , 245, 106847	4.2	8
47	Mott-Hubbard transition in the mass-imbalanced Hubbard model. <i>European Physical Journal B</i> , <b>2017</b> , 90, 1	1.2	7
46	Crossover from d-wave to p-wave pairing in the $t\tilde{t}$ Hubbard model at zero temperature. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	7
45	Self-consistent ladder dynamical vertex approximation. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	7
44	Tiling with triangles: parquet and GW methods unified. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	7
43	The LDA+DMFT Route to Identify Good Thermoelectrics. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2009</b> , 141-157	0.2	6
42	Enhancement of the effective disorder potential and thermopower in $\text{Na}_x\text{CoO}_2$ through electron-phonon coupling. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	6
41	Kinks in the periodic Anderson model. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	6
40	Feldbacher, Held, and Assad Reply:. <i>Physical Review Letters</i> , <b>2006</b> , 96,	7.4	6
39	Effect of spectral fluctuations on conductance-peak height statistics in quantum dots. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	6
38	Electronic and magnetic state of $\text{LaMnO}_3$ epitaxially strained on $\text{SrTiO}_3$ : Effect of local correlation and nonlocal exchange. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	6
37	Impact of self-consistency in dual fermion calculations. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	6
36	Metallic Ferromagnetism – An Electronic Correlation Phenomenon. <i>Lecture Notes in Physics</i> , <b>2001</b> , 191-207.8		6
35	Finite-temperature phase diagram of (111) nickelate bilayers. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	5

34	Numerical solver for the time-dependent far-from-equilibrium Boltzmann equation. <i>Computer Physics Communications</i> , <b>2021</b> , 264, 107877	4.2	5
33	Zero Field Splitting of Heavy-Hole States in Quantum Dots. <i>Nano Letters</i> , <b>2020</b> , 20, 5201-5206	11.5	4
32	Boltzmann approach to high-order transport: The nonlinear and nonlocal responses. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	4
31	Double exchange model for nanoscopic clusters. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	4
30	Kinks: Fingerprints of strong electronic correlations. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 012207	0.3	4
29	Design of a d(1)-analogue of cuprates: Sr(2)VO(4) and Ba(2)VO(4) under pressure. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 365204	1.8	4
28	Two aspects of the MottHubbard transition in Cr-doped. <i>Physica B: Condensed Matter</i> , <b>2005</b> , 359-361, 642-644	2.8	4
27	Phase Diagram of Nickelate Superconductors Calculated by Dynamical Vertex Approximation. <i>Frontiers in Physics</i> , <b>2022</b> , 9,	3.9	4
26	Das et al. Reply:. <i>Physical Review Letters</i> , <b>2012</b> , 108,	7.4	3
25	Dynamical mean field theory for manganites. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	3
24	Nonequilibrium transport through parallel double quantum dots in the Kondo regime. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	3
23	Zoology of spin and orbital fluctuations in ultrathin oxide films. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	3
22	Physics behind the minimum of relative entropy measures for correlations. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	2
21	Spectral properties of the Mott Hubbard insulator (Cr <sub>0.011</sub> V <sub>0.989</sub> ) <sub>2</sub> O <sub>3</sub> calculated by LDA+DMFT. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 012208	0.3	2
20	Phase relaxation of one-particle states in closed quantum dots. <i>Chaos, Solitons and Fractals</i> , <b>2003</b> , 16, 417-429	9.3	2
19	How correlations change the magnetic structure factor of the kagome Hubbard model. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2
18	Statistical error estimates in dynamical mean-field theory and extensions thereof. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
17	Comparing scattering rates from Boltzmann and dynamical mean-field theory. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	2

16	Real-space mapping of electronic orbitals <b>2016</b> , 839-840		1
15	Electronic correlations in V <sub>2</sub> O <sub>3</sub> studied with K-edge X-ray absorption spectroscopy. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 190, 012092	0.3	1
14	Enhancement of impact ionization in Hubbard clusters by disorder and next-nearest-neighbor hopping. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
13	Importance of Schottky barriers for wide-bandgap thermoelectric devices. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	1
12	Asymmetric interfaces and high-TC ferromagnetic phase in La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> /SrRuO <sub>3</sub> superlattices. <i>Nano Research</i> , <b>2021</b> , 14, 3621-3628	10	1
11	Pitfalls and solutions for perovskite transparent conductors. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
10	Broadening and sharpening of the Drude peak through antiferromagnetic fluctuations. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
9	Efficient Magnus-type integrators for solar energy conversion in Hubbard models. <i>Journal of Computational Mathematics and Data Science</i> , <b>2022</b> , 2, 100018		0
8	Origin of the background absorption in carbon nanotubes: Phonon-assisted excitonic continuum. <i>Carbon</i> , <b>2022</b> , 186, 465-474	10.4	0
7	Toward Functionalized Ultrathin Oxide Films: The Impact of Surface Apical Oxygen. <i>Advanced Electronic Materials</i> , 2101006	6.4	0
6	Fingerprints of Topotactic Hydrogen in Nickelate Superconductors. <i>Crystals</i> , <b>2022</b> , 12, 656	2.3	0
5	Dynamical Mean Field Theory for Oxide Heterostructures. <i>Springer Series in Materials Science</i> , <b>2018</b> , 215-243		0
4	Dynamical cluster approximation study of d- and p-wave pairing in the Hubbard model at. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 645-647	2.8	
3	Mott-Hubbard transition in d=1 revisited by projective quantum Monte Carlo simulations. <i>Physica B: Condensed Matter</i> , <b>2005</b> , 359-361, 654-656	2.8	
2	Metal-Insulator Transitions and Realistic Modelling of Correlated Electron Systems <b>2003</b> , 217-226		
1	Nanosession: 2D Electron Systems - Atomic Configurations 69-80		