Anna Kauch

List of Publications by Year
in descending order

27	429	840776 11	713466 21
papers	citations	h-index	g-index

27	27	27	250
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tracking the Footprints of Spin Fluctuations: A MultiMethod, MultiMessenger Study of the Two-Dimensional Hubbard Model. Physical Review X, 2021, 11, .	8.9	87
2	Quantitative functional renormalization group description of the two-dimensional Hubbard model. Physical Review Research, 2020, 2, .	3.6	39
3	Generic Optical Excitations of Correlated Systems: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi></mml:math> -tons. Physical Review Letters, 2020, 124, 047401.	7.8	38
4	Truncated unity parquet solver. Physical Review B, 2020, 101, .	3.2	31
5	Thermodynamically consistent description of criticality in models of correlated electrons. Physical Review B, 2017, 95, .	3.2	28
6	Spectral properties and phase diagram of correlated lattice bosons in an optical cavity within bosonic dynamical mean-field theory. Physical Review B, 2017, 95, .	3.2	22
7	The victory project v1.0: An efficient parquet equations solver. Computer Physics Communications, 2019, 241, 146-154.	7.5	22
8	Self-consistent ladder dynamical vertex approximation. Physical Review B, 2021, 103, .	3.2	19
9	Tiling with triangles: parquet and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi><mml:mi>Î³</mml:mi> methods unified. Physical Review Research, 2021, 3, .	3.6	19
10	Parquet approximation for molecules: Spectrum and optical conductivity of the Pariser-Parr-Pople model. Physical Review B, 2019, 99, .	3.2	18
11	Parquet dual fermion approach for the Falicov-Kimball model. Physical Review B, 2020, 101, .	3.2	13
12	Mean-field approximation for thermodynamic and spectral functions of correlated electrons: Strong coupling and arbitrary band filling. Physical Review B, 2017, 95, .	3.2	11
13	Solving the Bethe-Salpeter equation with exponential convergence. Physical Review Research, 2021, 3, .	3.6	11
14	Numerical calculation of spectral functions of the Bose-Hubbard model using bosonic dynamical mean-field theory. Physical Review B, 2015, 92, .	3.2	10
15	Competition between antiferromagnetic and charge density wave fluctuations in the extended Hubbard model. Physical Review B, 2019, 100, .	3.2	10
16	Variational local moment approach: From Kondo effect to Mott transition in correlated electron systems. Physica B: Condensed Matter, 2012, 407, 209-217.	2.7	7
17	Electron-light interaction in nonequilibrium: exact diagonalization for time-dependent Hubbard Hamiltonians. European Physical Journal Plus, 2020, 135, 922.	2.6	7
18	Enhancement of impact ionization in Hubbard clusters by disorder and next-nearest-neighbor hopping. Physical Review B, 2020, 102, .	3.2	7

#	Article	IF	Citations
19	Strong-coupling solution of the bosonic dynamical mean-field theory. Physical Review B, 2012, 85, .	3.2	6
20	Broadening and sharpening of the Drude peak through antiferromagnetic fluctuations. Physical Review B, 2021, 104, .	3.2	6
21	Free energy of mean-field spin-glass models: Evolution operator and perturbation expansion. Physical Review B, 2013, 87, .	3.2	5
22	The plain and simple parquet approximation: single-and multi-boson exchange in the two-dimensional Hubbard model. European Physical Journal B, 2022, 95, 69.	1.5	5
23	Local moment approach to multi-orbital single impurity Anderson model: Application to dynamical mean-field theory. Physica B: Condensed Matter, 2006, 378-380, 297-298.	2.7	4
24	Ergodicity breaking in frustrated disordered systems: replicas in mean-field spin-glass models. Phase Transitions, 2015, 88, 245-263.	1.3	2
25	Local Moment Approach to Multi-Orbital Anderson and Hubbard Models. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 85-95.	0.3	1
26	Efficient Magnus-type integrators for solar energy conversion in Hubbard models. Journal of Computational Mathematics and Data Science, 2022, 2, 100018.	2.3	1
27	Simplified Parquet Equations for the Anderson Impurity Model: Comparison with Numerically Exact Solutions. Acta Physica Polonica A, 2017, 131, 1042-1044.	0.5	0