Mark Jarrell

List of Publications by Year
in descending order

52 papers	3,439 citations	361413 20 h-index	197818 49 g-index
52 all docs	52 docs citations	52 times ranked	2154 citing authors

#	Article	IF	Citations
1	Deep learning on the 2-dimensional Ising model to extract the crossover region with a variational autoencoder. Scientific Reports, 2020, 10, 13047.	3.3	21
2	Locally self-consistent embedding approach for disordered electronic systems. Physical Review B, 2019, 100, .	3.2	1
3	Periodic Anderson model with Holstein phonons for the description of the cerium volume collapse. Physical Review B, 2019, 99, .	3.2	0
4	Systematic Quantum Cluster Typical Medium Method for the Study of Localization in Strongly Disordered Electronic Systems. Applied Sciences (Switzerland), 2018, 8, 2401.	2.5	20
5	Emergence of non-Fermi liquid dynamics through nonlocal correlations in an interacting disordered system. Physical Review B, 2018, 98, .	3.2	8
6	Quantum critical local spin dynamics near the Mott metal-insulator transition in infinite dimensions. Physical Review B, 2017, 95, .	3.2	9
7	GeauxDock: Accelerating Structure-Based Virtual Screening with Heterogeneous Computing. PLoS ONE, 2016, 11, e0158898.	2.5	22
8	Local theory for Mott-Anderson localization. Physical Review B, 2016, 94, .	3.2	10
9	Sign Learning Kink-based (SiLK) Quantum Monte Carlo for molecular systems. Journal of Chemical Physics, 2016, 144, 014101.	3.0	0
10	First-principles investigation of cubicBaRuO3: A Hund's metal. Physical Review B, 2016, 94, .	3.2	9
11	Assessing the similarity of ligand binding conformations with the Contact Mode Score. Computational Biology and Chemistry, 2016, 64, 403-413.	2.3	45
12	A multi-orbital iterated perturbation theory for model Hamiltonians and real material-specific calculations of correlated systems. European Physical Journal B, 2016, 89, 1.	1.5	16
13	Study of multiband disordered systems using the typical medium dynamical cluster approximation. Physical Review B, 2015, 92, .	3.2	16
14	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><mm mathvariant="normal">N</mml:mi></mml:mrow></mml:math>?. Physical Review Letters, 2015, 115, 197203.	7.8	14
15	Cooling Atomic Gases With Disorder. Physical Review Letters, 2015, 115, 240402.	7.8	19
16	GeauxDock: A novel approach for mixedâ€resolution ligand docking using a descriptorâ€based force field. Journal of Computational Chemistry, 2015, 36, 2013-2026.	3.3	10
17	Equation of motion coupled cluster methods for electron attachment and ionization potential in fullerenes C60and C70. Journal of Chemical Physics, 2014, 141, 074304.	3.0	16
18	Effective cluster typical medium theory for the diagonal Anderson disorder model in one- and two-dimensions. Journal of Physics Condensed Matter, 2014, 26, 274209.	1.8	13

#	Article	IF	Citations
19	Unconventional Superconductivity from Local Spin Fluctuations in the Kondo Lattice. Physical Review Letters, 2013, 110, 146406.	7.8	40
20	Unconventional superconductivity on the triangular lattice Hubbard model. Physical Review B, 2013, 88, .	3.2	40
21	Electronic, transport, optical, and structural properties of rocksalt CdO. Journal of Applied Physics, 2013, 114, 153705.	2.5	5
22	Imaginary-time quantum many-body theory out of equilibrium. II. Analytic continuation of dynamic observables and transport properties. Physical Review B, 2013, 87, .	3.2	3
23	Periodic Anderson model with electron-phonon correlated conduction band. Physical Review B, 2013, 87, .	3.2	5
24	Phase diagram of the Bose-Hubbard model on a ring-shaped lattice with tunable weak links. Physical Review A, 2013, 87, .	2.5	9
25	Complex phases in the doped two-species bosonic Hubbard model. Physical Review B, 2013, 88, .	3.2	6
26	Electronic, structural, and elastic properties of metal nitrides XN (X = Sc, Y): A first principle study. AIP Advances, 2012, 2, 032163.	1.3	11
27	First principle electronic, structural, elastic, and optical properties of strontium titanate. AIP Advances, 2012, 2, .	1.3	43
28	CT-QMC and Maximum Entropy Approach to a Scattering-States Formulation of Strongly Correlated Steady-State Transport. Journal of Physics: Conference Series, 2011, 273, 012150.	0.4	1
29	Spectral properties of the three-dimensional Hubbard model. Physical Review B, 2011, 83, .	3.2	39
30	Response to dynamical modulation of the optical lattice for fermions in the Hubbard model. Physical Review A, 2011, 84, .	2.5	12
31	Dynamical cluster quantum Monte Carlo study of the single-particle spectra of strongly interacting fermion gases. Physical Review A, 2010, 81, .	2.5	28
32	Nonlocal Effects on Magnetism in the Diluted Magnetic Semiconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ga</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi> Physical Review Letters, 2010, 104, 037201.	7.8	7
33	Analytic continuation of quantum Monte Carlo data by stochastic analytical inference. Physical Review E, 2010, 81, 056701.	2.1	61
34	Continuous-time quantum Monte Carlo and maximum entropy approach to an imaginary-time formulation of strongly correlated steady-state transport. Physical Review E, 2010, 82, 026701.	2.1	24
35	Thermodynamic consistency of the dynamical mean-field theory of the double-exchange model. Physical Review B, 2005, 71, .	3.2	6
36	Quantum cluster theories. Reviews of Modern Physics, 2005, 77, 1027-1080.	45.6	1,047

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37	Fluctuation-exchange supplemented quantum Monte Carlo approach to the Hubbard model. Physical Review B, 2004, 69, .	3.2	11
38	Maximum entropy method of obtaining thermodynamic properties from quantum Monte Carlo simulations. Physical Review B, 2000, 61, 9300-9306.	3.2	16
39	Phase Diagram of the Two-Channel Kondo Lattice. Physical Review Letters, 1997, 78, 1996-1999.	7.8	53
40	Magnetoresistance in the Two-Channel Anderson Lattice. Physical Review Letters, 1997, 78, 2000-2003.	7.8	36
41	Bayesian inference and the analytic continuation of imaginary-time quantum Monte Carlo data. Physics Reports, 1996, 269, 133-195.	25.6	1,053
42	Two-Channel Kondo Lattice: An Incoherent Metal. Physical Review Letters, 1996, 77, 1612-1615.	7.8	54
43	Gap States in Dilute Magnetic Alloy Superconductors. Physical Review Letters, 1996, 77, 3621-3624.	7.8	16
44	The Anharmonic Electron-Phonon Problem. Physical Review Letters, 1996, 77, 4588-4591.	7.8	45
45	CLUSTER MONTE CARLO STUDY OF THE QUANTUM XY MODEL IN TWO DIMENSIONS. International Journal of Modern Physics C, 1996, 07, 433-440.	1.7	1
46	Bayesian Inference and the Analytic Continuation of Imaginary-Time Quantum Monte Carlo Data. , 1996, , 163-170.		1
47	Magnetic Phase Diagram of the Hubbard Model. Physical Review Letters, 1995, 74, 186-189.	7.8	53
48	Competition between Electron-Phonon Attraction and Weak Coulomb Repulsion. Physical Review Letters, 1995, 75, 2570-2573.	7.8	62
49	Transport properties of the infinite-dimensional Hubbard model. Physica B: Condensed Matter, 1994, 199-200, 217-218.	2.7	2
50	Low-temperature dynamics of the 2D spin-1/2 Heisenberg antiferromagnet: A quantum Monte Carlo study. Physical Review Letters, 1992, 68, 1770-1773.	7.8	48
51	Quantum Monte Carlo simulations and maximum entropy: Dynamics from imaginary-time data. Physical Review B, 1991, 44, 6011-6029.	3.2	313
52	Dynamical approach to analytic continuation of quantum Monte Carlo data. Physical Review Letters, 1989, 63, 2504-2507.	7.8	39