

Eric Jeckelmann

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.

67
papers

1,874
citations

24
h-index

42
g-index

76
ext. papers

2,105
ext. citations

3.2
avg. IF

4.94
L-index

#	Paper	IF	Citations
67	Comparative study of state-of-the-art matrix-product-state methods for lattice models with large local Hilbert spaces without U(1) symmetry. <i>Computer Physics Communications</i> , 2021 , 269, 108106	4.2	3
66	Density-matrix renormalization group study of the linear conductance in quantum wires coupled to interacting leads or phonons. <i>Physical Review B</i> , 2019 , 100,	3.3	1
65	Anisotropic 2D metallicity: plasmons in Ge(1 0 0)-Au. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 175008		7
64	Correlations and confinement of excitations in an asymmetric Hubbard ladder. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	0
63	Scattering of an electronic wave packet by a one-dimensional electron-phonon-coupled structure. <i>Physical Review B</i> , 2017 , 95,	3.3	5
62	Correlated atomic wires on substrates. II. Application to Hubbard wires. <i>Physical Review B</i> , 2017 , 96,	3.3	3
61	Correlated atomic wires on substrates. I. Mapping to quasi-one-dimensional models. <i>Physical Review B</i> , 2017 , 96,	3.3	3
60	Density-matrix renormalization group method for the conductance of one-dimensional correlated systems using the Kubo formula. <i>Physical Review B</i> , 2017 , 96,	3.3	4
59	Grand canonical Peierls transition in In/Si(111). <i>Physical Review B</i> , 2016 , 93,	3.3	18
58	Ground-state and spectral properties of an asymmetric Hubbard ladder. <i>Physical Review B</i> , 2015 , 91,	3.3	4
57	Matrix-product-state method with a dynamical local basis optimization for bosonic systems out of equilibrium. <i>Physical Review B</i> , 2015 , 92,	3.3	23
56	Real-time decay of a highly excited charge carrier in the one-dimensional Holstein model. <i>Physical Review B</i> , 2015 , 91,	3.3	40
55	Blind deconvolution of density-matrix renormalization-group spectra. <i>Physical Review B</i> , 2014 , 89,	3.3	4
54	Local density of states of the one-dimensional spinless fermion model. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 014002	1.8	9
53	Finite wave vector pairing in doped two-leg ladders. <i>Physical Review B</i> , 2012 , 85,	3.3	14
52	Numerical method for nonlinear steady-state transport in one-dimensional correlated conductors. <i>Physical Review B</i> , 2012 , 85,	3.3	20
51	Circulating-current phase in the three-band model for two-leg CuO ladders. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S53-S54	1.3	1

50	Charge and spin Drude weight of the one-dimensional extended Hubbard model at quarter filling. <i>Physical Review B</i> , 2009 , 79,	3.3	12
49	Current-current correlations in the three-band model for two-leg CuO ladders: Density-matrix renormalization group study. <i>Physical Review B</i> , 2009 , 79,	3.3	17
48	Density-Matrix Renormalization Group Methods for Momentum- and Frequency-Resolved Dynamical Correlation Functions. <i>Progress of Theoretical Physics Supplement</i> , 2008 , 176, 143-164		18
47	Metallicity in the half-filled Holstein-Hubbard model. <i>Europhysics Letters</i> , 2008 , 84, 57001	1.6	61
46	Dynamical Density-Matrix Renormalization Group 2008 , 621-635		
45	Density-Matrix Renormalization Group Algorithms 2008 , 597-619		2
44	The spin-Peierls chain revisited. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 1380-1382	2.8	4
43	Spin and charge dynamics of the one-dimensional extended Hubbard model. <i>Physical Review B</i> , 2007 , 75,	3.3	27
42	Dynamical mean-field theory calculation with the dynamical density-matrix renormalization group. <i>Physica B: Condensed Matter</i> , 2006 , 378-380, 283-285	2.8	9
41	Hole-doped Hubbard ladders. <i>Physica B: Condensed Matter</i> , 2006 , 378-380, 319-320	2.8	2
40	Optical conductivity of the one-dimensional dimerized Hubbard model at quarter filling. <i>European Physical Journal B</i> , 2005 , 44, 287-297	1.2	6
39	Exact Numerical Treatment of Finite Quantum Systems Using Leading-Edge Supercomputers 2005 , 165-177		
38	Optical excitations of Peierls-Mott insulators with bond disorder. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 4093-4110	1.8	5
37	Stripe formation in doped Hubbard ladders. <i>Physical Review B</i> , 2005 , 71,	3.3	54
36	Electronic structure of the spin-12 quantum magnet TiOCl. <i>Physical Review B</i> , 2005 , 72,	3.3	31
35	Comment on "Accurate ground-state phase diagram of the one-dimensional extended Hubbard model at half filling" <i>Physical Review B</i> , 2005 , 71,	3.3	5
34	DMRG Investigation of Stripe Formation in Doped Hubbard Ladders 2005 , 339-347		
33	Density-matrix renormalization group approach to quantum impurity problems. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 613-625	1.8	40

32	Dynamical density-matrix renormalization group for the Mott-Hubbard insulator in high dimensions. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 7063-7081	1.8	49
31	Spectral function of the one-dimensional Hubbard model away from half filling. <i>Physical Review Letters</i> , 2004 , 92, 256401	7.4	107
30	Parallelization strategies for density matrix renormalization group algorithms on shared-memory systems. <i>Journal of Computational Physics</i> , 2004 , 194, 795-808	4.1	32
29	Resonant inelastic X-ray scattering of the holon-antiholon continuum in SrCuO ₂ . <i>Physical Review Letters</i> , 2004 , 92, 137402	7.4	65
28	DENSITY-MATRIX RENORMALISATION GROUP FOR DYNAMIC CORRELATION FUNCTIONS. <i>International Journal of Modern Physics B</i> , 2003 , 17, 5453-5457	1.1	1
27	On the Correlation Effect in Peierls-Hubbard Chains. <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 2277-2281	1.5	7
26	Fourth-order perturbation theory for the half-filled Hubbard model in infinite dimensions. <i>European Physical Journal B</i> , 2003 , 36, 491-509	1.2	34
25	Jeckelmann Replies:. <i>Physical Review Letters</i> , 2003 , 91,	7.4	14
24	Optical excitations in a one-dimensional Mott insulator. <i>Physical Review B</i> , 2003 , 67,	3.3	46
23	Application of the density matrix renormalization group in momentum space. <i>Physical Review B</i> , 2002 , 65,	3.3	29
22	Ground-state phase diagram of a half-filled one-dimensional extended hubbard model. <i>Physical Review Letters</i> , 2002 , 89, 236401	7.4	99
21	Differences between hole and electron doping of a two-leg CuO ladder. <i>Physical Review B</i> , 2002 , 66,	3.3	22
20	Dynamical density-matrix renormalization-group method. <i>Physical Review B</i> , 2002 , 66,	3.3	241
19	Excitons in one-dimensional Mott insulators. <i>Physical Review B</i> , 2001 , 64,	3.3	69
18	Stripes in a three-chain Hubbard ladder: A comparison of density-matrix renormalization group and constrained-path Monte Carlo results. <i>Physical Review B</i> , 2000 , 61, 3251-3254	3.3	24
17	Matrix-product approach to conjugated polymers. <i>Physical Review B</i> , 2000 , 61, 1841-1846	3.3	3
16	Optical conductivity of the half-filled hubbard chain. <i>Physical Review Letters</i> , 2000 , 85, 3910-3	7.4	81
15	Recurrent Variational Approach Applied to the Electronic Structure of Conjugated Polymers. <i>Progress in Theoretical Chemistry and Physics</i> , 2000 , 169-187	0.6	

14	Methods for electron-phonon systems 1999 , 337-344		
13	Dynamical properties of the one-dimensional Holstein model. <i>Physical Review B</i> , 1999 , 60, 14092-14104	3.3	43
12	Metal-insulator transition in the one-dimensional Holstein model at half filling. <i>Physical Review B</i> , 1999 , 60, 7950-7955	3.3	79
11	Mott-Peierls transition in the extended Peierls-Hubbard model. <i>Physical Review B</i> , 1998 , 57, 11838-11843	3.3	25
10	Density Matrix Approach to Local Hilbert Space Reduction. <i>Physical Review Letters</i> , 1998 , 80, 2661-2664	7.4	84
9	Density-matrix renormalization-group study of the polaron problem in the Holstein model. <i>Physical Review B</i> , 1998 , 57, 6376-6385	3.3	173
8	Comparison of different ladder models. <i>Physical Review B</i> , 1998 , 58, 9492-9497	3.3	43
7	Bond Alternation in EConjugated Materials. <i>Materials Science Forum</i> , 1995 , 191, 71-80	0.4	3
6	Solitons in the one-dimensional Peierls-Hubbard model. <i>Synthetic Metals</i> , 1995 , 69, 651-653	3.6	5
5	The Hubbard Model and Its Application to Conjugated EElectron Systems. <i>NATO ASI Series Series B: Physics</i> , 1995 , 393-400		5
4	Variational study of the metal-insulator transition in polyacetylene 1994 ,		1
3	The metal-insulator transition in polyacetylene: variational study of the Peierls-Hubbard model. <i>Synthetic Metals</i> , 1994 , 65, 211-224	3.6	35
2	Variational treatment of the one-dimensional Peierls-Hubbard model: Lattice dimerization and solitons. <i>Synthetic Metals</i> , 1993 , 57, 4249-4254	3.6	3
1	On the Semiconductor-Metal Transition in Conducting Polymers. <i>Springer Series in Solid-state Sciences</i> , 1992 , 16-20	0.4	