

# Eric Jeckelmann

## List of Publications by Citations

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67  
papers

1,874  
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24  
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42  
g-index

76  
ext. papers

2,105  
ext. citations

3.2  
avg. IF

4.94  
L-index

#	Paper	IF	Citations
67	Dynamical density-matrix renormalization-group method. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	241
66	Density-matrix renormalization-group study of the polaron problem in the Holstein model. <i>Physical Review B</i> , <b>1998</b> , 57, 6376-6385	3.3	173
65	Spectral function of the one-dimensional Hubbard model away from half filling. <i>Physical Review Letters</i> , <b>2004</b> , 92, 256401	7.4	107
64	Ground-state phase diagram of a half-filled one-dimensional extended hubbard model. <i>Physical Review Letters</i> , <b>2002</b> , 89, 236401	7.4	99
63	Density Matrix Approach to Local Hilbert Space Reduction. <i>Physical Review Letters</i> , <b>1998</b> , 80, 2661-2664	7.4	84
62	Optical conductivity of the half-filled hubbard chain. <i>Physical Review Letters</i> , <b>2000</b> , 85, 3910-3	7.4	81
61	Metal-insulator transition in the one-dimensional Holstein model at half filling. <i>Physical Review B</i> , <b>1999</b> , 60, 7950-7955	3.3	79
60	Excitons in one-dimensional Mott insulators. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	69
59	Resonant inelastic X-ray scattering of the holon-antiholon continuum in SrCuO <sub>2</sub> . <i>Physical Review Letters</i> , <b>2004</b> , 92, 137402	7.4	65
58	Metallicity in the half-filled Holstein-Hubbard model. <i>Europhysics Letters</i> , <b>2008</b> , 84, 57001	1.6	61
57	Stripe formation in doped Hubbard ladders. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	54
56	Dynamical density-matrix renormalization group for the Mott-Hubbard insulator in high dimensions. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 7063-7081	1.8	49
55	Optical excitations in a one-dimensional Mott insulator. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	46
54	Comparison of different ladder models. <i>Physical Review B</i> , <b>1998</b> , 58, 9492-9497	3.3	43
53	Dynamical properties of the one-dimensional Holstein model. <i>Physical Review B</i> , <b>1999</b> , 60, 14092-14104	3.3	43
52	Real-time decay of a highly excited charge carrier in the one-dimensional Holstein model. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	40
51	Density-matrix renormalization group approach to quantum impurity problems. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 613-625	1.8	40

50	The metal-insulator transition in polyacetylene: variational study of the Peierls-Hubbard model. <i>Synthetic Metals</i> , <b>1994</b> , 65, 211-224	3.6	35
49	Fourth-order perturbation theory for the half-filled Hubbard model in infinite dimensions. <i>European Physical Journal B</i> , <b>2003</b> , 36, 491-509	1.2	34
48	Parallelization strategies for density matrix renormalization group algorithms on shared-memory systems. <i>Journal of Computational Physics</i> , <b>2004</b> , 194, 795-808	4.1	32
47	Electronic structure of the spin-12 quantum magnet TiOCl. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	31
46	Application of the density matrix renormalization group in momentum space. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	29
45	Spin and charge dynamics of the one-dimensional extended Hubbard model. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	27
44	Mott-Peierls transition in the extended Peierls-Hubbard model. <i>Physical Review B</i> , <b>1998</b> , 57, 11838-11843,	3.3	25
43	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> , <b>2000</b> , 61, 3251-3254	3.3	24
42	Matrix-product-state method with a dynamical local basis optimization for bosonic systems out of equilibrium. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	23
41	Differences between hole and electron doping of a two-leg CuO ladder. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	22
40	Numerical method for nonlinear steady-state transport in one-dimensional correlated conductors. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	20
39	Grand canonical Peierls transition in In/Si(111). <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	18
38	Density-Matrix Renormalization Group Methods for Momentum- and Frequency-Resolved Dynamical Correlation Functions. <i>Progress of Theoretical Physics Supplement</i> , <b>2008</b> , 176, 143-164		18
37	Current-current correlations in the three-band model for two-leg CuO ladders: Density-matrix renormalization group study. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	17
36	Finite wave vector pairing in doped two-leg ladders. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	14
35	Jeckelmann Replies. <i>Physical Review Letters</i> , <b>2003</b> , 91,	7.4	14
34	Charge and spin Drude weight of the one-dimensional extended Hubbard model at quarter filling. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	12
33	Local density of states of the one-dimensional spinless fermion model. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 014002	1.8	9

32	Dynamical mean-field theory calculation with the dynamical density-matrix renormalization group. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 378-380, 283-285	2.8	9
31	On the Correlation Effect in Peierls-Hubbard Chains. <i>Journal of the Physical Society of Japan</i> , <b>2003</b> , 72, 2277-2281	1.5	7
30	Anisotropic 2D metallicity: plasmons in Ge(1 0 0)-Au. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 175008	3.8	7
29	Optical conductivity of the one-dimensional dimerized Hubbard model at quarter filling. <i>European Physical Journal B</i> , <b>2005</b> , 44, 287-297	1.2	6
28	Scattering of an electronic wave packet by a one-dimensional electron-phonon-coupled structure. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	5
27	Optical excitations of Peierls-Mott insulators with bond disorder. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, 4093-4110	1.8	5
26	Comment on Accurate ground-state phase diagram of the one-dimensional extended Hubbard model at half filling. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	5
25	Solitons in the one-dimensional Peierls-Hubbard model. <i>Synthetic Metals</i> , <b>1995</b> , 69, 651-653	3.6	5
24	The Hubbard Model and Its Application to Conjugated Electron Systems. <i>NATO ASI Series Series B: Physics</i> , <b>1995</b> , 393-400		5
23	Blind deconvolution of density-matrix renormalization-group spectra. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	4
22	Density-matrix renormalization group method for the conductance of one-dimensional correlated systems using the Kubo formula. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	4
21	Ground-state and spectral properties of an asymmetric Hubbard ladder. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	4
20	The spin-Peierls chain revisited. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 1380-1382	2.8	4
19	Correlated atomic wires on substrates. II. Application to Hubbard wires. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	3
18	Correlated atomic wires on substrates. I. Mapping to quasi-one-dimensional models. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	3
17	Matrix-product approach to conjugated polymers. <i>Physical Review B</i> , <b>2000</b> , 61, 1841-1846	3.3	3
16	Bond Alternation in Conjugated Materials. <i>Materials Science Forum</i> , <b>1995</b> , 191, 71-80	0.4	3
15	Variational treatment of the one-dimensional Peierls-Hubbard model: Lattice dimerization and solitons. <i>Synthetic Metals</i> , <b>1993</b> , 57, 4249-4254	3.6	3

14	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> , <b>2021</b> , 269, 108106	4.2	3
13	Hole-doped Hubbard ladders. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 378-380, 319-320	2.8	2
12	Density-Matrix Renormalization Group Algorithms <b>2008</b> , 597-619		2
11	Density-matrix renormalization group study of the linear conductance in quantum wires coupled to interacting leads or phonons. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	1
10	Circulating-current phase in the three-band model for two-leg CuO ladders. <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, S53-S54	1.3	1
9	DENSITY-MATRIX RENORMALISATION GROUP FOR DYNAMIC CORRELATION FUNCTIONS. <i>International Journal of Modern Physics B</i> , <b>2003</b> , 17, 5453-5457	1.1	1
8	Variational study of the metal-insulator transition in polyacetylene <b>1994</b> ,		1
7	Correlations and confinement of excitations in an asymmetric Hubbard ladder. <i>European Physical Journal B</i> , <b>2018</b> , 91, 1	1.2	0
6	Exact Numerical Treatment of Finite Quantum Systems Using Leading-Edge Supercomputers <b>2005</b> , 165-177		
5	Methods for electron-phonon systems <b>1999</b> , 337-344		
4	Dynamical Density-Matrix Renormalization Group <b>2008</b> , 621-635		
3	Recurrent Variational Approach Applied to the Electronic Structure of Conjugated Polymers. <i>Progress in Theoretical Chemistry and Physics</i> , <b>2000</b> , 169-187	0.6	
2	DMRG Investigation of Stripe Formation in Doped Hubbard Ladders <b>2005</b> , 339-347		
1	On the Semiconductor-Metal Transition in Conducting Polymers. <i>Springer Series in Solid-state Sciences</i> , <b>1992</b> , 16-20	0.4	