

Sebastian Eggert

List of Publications by Year in descending order

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96
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96
docs citations

96
times ranked

2161
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic impurities in half-integer-spin Heisenberg antiferromagnetic chains. Physical Review B, 1992, 46, 10866-10883.	1.1	377
2	Susceptibility of the spin 1/2 Heisenberg antiferromagnetic chain. Physical Review Letters, 1994, 73, 332-335.	2.9	368
3	Numerical evidence for multiplicative logarithmic corrections from marginal operators. Physical Review B, 1996, 54, R9612-R9615.	1.1	223
4	Impurities in $S=1/2$ Heisenberg Antiferromagnetic Chains: Consequences for Neutron Scattering and Knight Shift. Physical Review Letters, 1995, 75, 934-937.	2.9	146
5	Band gaps of primary metallic carbon nanotubes. Physical Review B, 2001, 63, .	1.1	114
6	Curvature, hybridization, and STM images of carbon nanotubes. Physical Review B, 2001, 64, .	1.1	97
7	Real Space Imaging of One-Dimensional Standing Waves: Direct Evidence for a Luttinger Liquid. Physical Review Letters, 2004, 93, 166403.	2.9	90
8	Boundary Effects on Spectral Properties of Interacting Electrons in One Dimension. Physical Review Letters, 1996, 76, 1505-1508.	2.9	84
9	Dirac Spin Liquid on the Spin- 1 Triangular Heisenberg Antiferromagnet. Physical Review Letters, 2019, 123, 207203.	2.9	78
10	Properties of a Luttinger liquid with boundaries at finite temperature and size. Physical Review B, 1997, 56, 15615-15628.	1.1	73
11	Scanning Tunneling Microscopy of a Luttinger Liquid. Physical Review Letters, 2000, 84, 4413-4416.	2.9	59
12	Rydberg Polaritons in a Cavity: A Superradiant Solid. Physical Review Letters, 2013, 110, 090402.	2.9	58
13	Phase diagram of the antiferromagnetic XXZ model on the triangular lattice. Physical Review B, 2015, 91, .	1.1	54
14	Spin- and charge-density oscillations in spin chains and quantum wires. Physical Review B, 2000, 62, 4370-4382.	1.1	53
15	Wigner crystal versus Friedel oscillations in the one-dimensional Hubbard model. Physical Review B, 2009, 79, .	1.1	53
16	Chain Breaks and the Susceptibility of $\text{Sr}_2\text{Cu}_1-x\text{PdxO}_3$ and Other Doped Quasi-One-Dimensional Antiferromagnets. Physical Review Letters, 2007, 98, 137205.	2.9	49
17	Néel Order in Doped Quasi-One-Dimensional Antiferromagnets. Physical Review Letters, 2002, 89, 047202.	2.9	48
18	Dynamics and decoherence in the central spin model using exact methods. Physical Review B, 2010, 82, .	1.1	45

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19	Boundary Susceptibility in the Spin-1/2 Chain: Curie-Like Behavior without Magnetic Impurities. Physical Review Letters, 2004, 92, 037206.	2.9	44
20	Integrable versus non-integrable spin chain impurity models. Journal of Physics A, 1993, 26, 6757-6776.	1.6	40
21	Accurate determination of the exchange constant in Sr ₂ CuO ₃ from recent theoretical results. Physical Review B, 1996, 53, 5116-5118.	1.1	38
22	Supersolid phase transitions for hard-core bosons on a triangular lattice. Physical Review B, 2011, 84, .	1.1	38
23	Continuous Easy-Plane Deconfined Phase Transition on the Kagome Lattice. Physical Review Letters, 2018, 120, 115702.	2.9	35
24	Universal Crossover Behavior of a Magnetic Impurity and Consequences for Doping in Spin-1/2 Chains. Physical Review Letters, 1998, 81, 1690-1693.	2.9	34
25	Ground-state properties of anyons in a one-dimensional lattice. New Journal of Physics, 2015, 17, 123016.	1.2	32
26	Limits of topological protection under local periodic driving. Light: Science and Applications, 2019, 8, 63.	7.7	32
27	Thermodynamics of impurities in the anisotropic Heisenberg spin-1/2 chain. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P02015.	0.9	31
28	Even-odd effect in short antiferromagnetic Heisenberg chains. Physical Review B, 2013, 87, .	1.1	31
29	Spin-liquid versus dimer phases in an anisotropic J_1 square antiferromagnet. Physical Review B, 2014, 89, .	1.1	31
30	Phase Diagram of the Triangular Extended Hubbard Model. Physical Review Letters, 2014, 113, 246405.	2.9	27
31	Impurity corrections to the thermodynamics in spin chains using a transfer-matrix DMRG method. Physical Review B, 1999, 59, 6301-6308.	1.1	26
32	Universal Alternating Order around Impurities in Antiferromagnets. Physical Review Letters, 2007, 99, 097204.	2.9	25
33	Tunable space-time crystal in room-temperature magnetodielectrics. Physical Review B, 2019, 100, .	1.1	25
34	Luttinger liquid in a finite one-dimensional wire with box-like boundary conditions. Physical Review B, 2003, 68, .	1.1	23
35	Local spectral weight of a Luttinger liquid: Effects from edges and impurities. Physical Review B, 2006, 74, .	1.1	23
36	Tuning the quantum phase transition of bosons in optical lattices via periodic modulation of the wave scattering length. Physical Review A, 2014, 90, .	1.0	23

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37	Dimensional Phase Transition from an Array of 1D Luttinger Liquids to a 3D Bose-Einstein Condensate. Physical Review Letters, 2014, 113, 215301.	2.9	23
38	Correlation functions of interacting fermions at finite temperature and size. Physical Review B, 1997, 56, R15537-R15540.	1.1	21
39	Local Density of States for Individual Energy Levels in Finite Quantum Wires. Physical Review Letters, 2008, 101, 206401.	2.9	21
40	Knight Shifts around Vacancies in the 2D Heisenberg Model. Physical Review Letters, 2006, 96, 017204.	2.9	20
41	Attractively bound pairs of atoms in the Bose-Hubbard model and antiferromagnetism. Physical Review A, 2009, 79, .	1.0	20
42	Spectrum and screening cloud in the central spin model. Physical Review B, 2010, 81, .	1.1	20
43	Transport and scattering in inhomogeneous quantum wires. Physical Review B, 2012, 86, .	1.1	20
44	Quantum resonance catastrophe for conductance through a periodically driven barrier. Physical Review B, 2016, 93, .	1.1	20
45	Transport through an AC-driven impurity: Fano interference and bound states in the continuum. New Journal of Physics, 2017, 19, 043029.	1.2	20
46	Interplay of Coulomb blockade and Aharonov-Bohm resonances in a Luttinger liquid. Physical Review B, 1998, 57, 3777-3780.	1.1	19
47	Density profile of interacting fermions in a one-dimensional optical trap. Physical Review A, 2011, 84, .	1.0	19
48	Electron-Phonon Interactions on a Single-Branch Quantum Hall Edge. Physical Review Letters, 1996, 77, 358-361.	2.9	18
49	Local Magnetic Susceptibility of the Positive Muon in the Quasi-One-Dimensional $S=1/2$ Antiferromagnet Dichlorobis (Pyridine) Copper (II). Physical Review Letters, 2003, 91, 027202.	2.9	18
50	Phase Diagram of an Impurity in the Spin-1/2 Chain: Two-Channel Kondo Effect versus Curie Law. Physical Review Letters, 2001, 86, 516-519.	2.9	17
51	Perfect Spin Filter by Periodic Drive of a Ferromagnetic Quantum Barrier. Physical Review Letters, 2017, 119, 267701.	2.9	17
52	Bosonic Continuum Theory of One-Dimensional Lattice Anyons. Physical Review Letters, 2021, 126, 163201.	2.9	16
53	Quantum Domain Walls Induce Incommensurate Supersolid Phase on the Anisotropic Triangular Lattice. Physical Review Letters, 2016, 117, 193201.	2.9	15
54	Interaction effects between impurities in low-dimensional spin-(1/2) antiferromagnets. Europhysics Letters, 2006, 73, 271-277.	0.7	13

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55	Recursive Method for the Density of States in One Dimension. Physical Review Letters, 2010, 104, 036402.	2.9	13
56	Chiral Edge States and Fractional Charge Separation in a System of Interacting Bosons on a Kagome Lattice. Physical Review Letters, 2013, 111, 147201.	2.9	13
57	Conducting fixed points for inhomogeneous quantum wires: A conformally invariant boundary theory. Physical Review B, 2014, 89, .	1.1	13
58	Magnetocaloric effects, quantum critical points, and the Berezinsky-Kosterlitz-Thouless transition in two-dimensional coupled spin-dimer systems. Physical Review B, 2015, 91, .	1.1	13
59	Competing phases in spin ladders with ring exchange and frustration. Physical Review B, 2017, 95, .	1.1	13
60	Electron scattering from domain walls in ferromagnetic Luttinger liquids. Physical Review B, 2011, 84, .	1.1	12
61	Static impurities in a supersolid of interacting hard-core bosons on a triangular lattice. Physical Review B, 2010, 82, .	1.1	11
62	Tunable anisotropic superfluidity in an optical kagome superlattice. Physical Review B, 2015, 92, .	1.1	11
63	Nonequilibrium Floquet Steady States of Time-Periodic Driven Luttinger Liquids. Physical Review Letters, 2021, 126, 243401.	2.9	11
64	Lattice versus continuum theory of the periodic Heisenberg chain. Physical Review B, 2009, 79, .	1.1	10
65	Low-energy local density of states of the 1D Hubbard model. Europhysics Letters, 2013, 101, 56006.	0.7	10
66	Generalized effective-potential Landau theory for bosonic quadratic superlattices. Physical Review A, 2013, 87, .	1.0	10
67	Conductance in inhomogeneous quantum wires: Luttinger liquid predictions and quantum Monte Carlo results. Physical Review B, 2016, 94, .	1.1	10
68	Ground-state phase diagram of the frustrated spin- $\frac{1}{2}$ two-leg honeycomb ladder. Physical Review B, 2018, 97, .	1.1	10
69	Lattice defects and boundaries in conducting carbon nanotubes. Physical Review B, 2009, 80, .	1.1	9
70	Floquet-induced superfluidity with periodically modulated interactions of two-species hardcore bosons in a one-dimensional optical lattice. Physical Review Research, 2020, 2, .	1.3	9
71	Local magnetic susceptibility of the positive muon in the quasi-1D $S=1/2$ antiferromagnet KCuF_3 . Physical Review B: Condensed Matter, 2003, 326, 422-426.	1.3	8
72	Spin-wave calculation of the field-dependent magnetization pattern around an impurity in Heisenberg antiferromagnets. Physical Review B, 2011, 83, .	1.1	7

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73	High-order symbolic strong-coupling expansion for the Bose-Hubbard model. <i>Physical Review B</i> , 2018, 98, .	1.1	7
74	Dynamic structure factor in impurity-doped spin chains. <i>Physical Review B</i> , 2018, 98, .	1.1	7
75	Scaling of intrinsic domain wall magnetoresistance with confinement in electromigrated nanocontacts. <i>Physical Review B</i> , 2019, 99, .	1.1	7
76	A two-channel Kondo impurity in the spin-1/2 chain: consequences for Knight shift experiments. <i>Physica B: Condensed Matter</i> , 1999, 259-261, 200-201.	1.3	6
77	Magnetic order and moment distribution in doped spin-chain systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E647-E648.	1.0	6
78	Doping effects in low dimensional antiferromagnets. <i>Physica B: Condensed Matter</i> , 2006, 384, 192-195.	1.3	6
79	Impurity entanglement through electron scattering in a magnetic field. <i>Physical Review B</i> , 2014, 89, .	1.1	6
80	Dipole oscillations of fermionic quantum gases along the BEC-BCS crossover in disordered potentials. <i>Physical Review A</i> , 2020, 101, .	1.0	5
81	Eggert, Affleck, and Horton Reply:. <i>Physical Review Letters</i> , 2003, 90, .	2.9	4
82	Impurity effects in quasi-one-dimensional $S=$ antiferromagnetic chain $KCuF_3$ studied by muon spin rotation. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 979-980.	1.0	3
83	Highest weight state description of the isotropic spin-1 chain. <i>Physical Review B</i> , 2008, 77, .	1.1	3
84	Thermodynamics and renormalized quasiparticles in the vicinity of the dilute Bose gas quantum critical point in two dimensions. <i>Physical Review B</i> , 2017, 95, .	1.1	3
85	Dissipation engineered directional filter for quantum ratchets. <i>Physical Review Research</i> , 2021, 3, .	1.3	3
86	Eggert, Gustafsson, and Rommer Reply:. <i>Physical Review Letters</i> , 2001, 87, .	2.9	2
87	Interference and interactions in mesoscopic rings. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1997, 1, 265-267.	1.3	1
88	Local spin transfer torque and magnetoresistance in domain walls with variable width. <i>Physical Review B</i> , 2020, 102, .	1.1	1
89	Impurities in spin chains. , 1999, , 311-320.		0
90	Non-collinear ferromagnetic Luttinger liquids. <i>Journal of Physics: Conference Series</i> , 2011, 303, 012107.	0.3	0

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91	Publisher's Note: Spin-liquid versus dimer phases in an anisotropic J_1 - J_2 frustrated square antiferromagnet [Phys. Rev. B 89, 241104(R) (2014)]. Physical Review B, 2014, 90, .	1.1	0
92	Entanglement of Hard-Core Bosons on the Honeycomb Lattice. Physica Status Solidi (B): Basic Research, 2019, 256, 1800639.	0.7	0
93	Impurities in One Dimension. , 2002, , 279-288.		0
94	Mean-Field Theory for Extended Bose-Hubbard Model with Hard-Core Bosons. Understanding Complex Systems, 2016, , 289-296.	0.3	0
95	Depopulation of Edge States under Local Periodic Driving despite Topological Protection. , 2019, , .		0