

Frithjof B Anders

List of Publications by Year in descending order

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74
papers

2,308
citations

279798

23
h-index

214800

47
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76
all docs

76
docs citations

76
times ranked

1165
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Dynamics in Quantum-Impurity Systems: A Time-Dependent Numerical Renormalization-Group Approach. <i>Physical Review Letters</i> , 2005, 95, 196801.	7.8	354
2	Spin precession and real-time dynamics in the Kondo model: Time-dependent numerical renormalization-group study. <i>Physical Review B</i> , 2006, 74, .	3.2	225
3	Numerical renormalization group approach to Green's functions for quantum impurity models. <i>Physical Review B</i> , 2006, 74, .	3.2	218
4	Steady-State Currents through Nanodevices: A Scattering-States Numerical Renormalization-Group Approach to Open Quantum Systems. <i>Physical Review Letters</i> , 2008, 101, 066804.	7.8	179
5	Equilibrium and Nonequilibrium Dynamics of the Sub-Ohmic Spin-Boson Model. <i>Physical Review Letters</i> , 2007, 98, 210402.	7.8	112
6	Transport properties of heavy-fermion systems. <i>Physical Review B</i> , 2006, 74, .	3.2	70
7	Zero-Bias Conductance in Carbon Nanotube Quantum Dots. <i>Physical Review Letters</i> , 2008, 100, 086809.	7.8	70
8	Influence of vibrational modes on quantum transport through a nanodevice. <i>Physical Review B</i> , 2013, 87, .	3.2	58
9	A chemically driven quantum phase transition in a two-molecule Kondo system. <i>Nature Physics</i> , 2016, 12, 867-873.	16.7	49
10	Inducing Kondo screening of vacancy magnetic moments in graphene with gating and local curvature. <i>Nature Communications</i> , 2018, 9, 2349.	12.8	44
11	Spin noise in the anisotropic central spin model. <i>Physical Review B</i> , 2014, 89, .	3.2	42
12	High-energy dynamics of the single-impurity Anderson model. <i>Physical Review B</i> , 2004, 69, .	3.2	38
13	Hybrid NRG-DMRG approach to real-time dynamics of quantum impurity systems. <i>Physical Review B</i> , 2013, 87, .	3.2	37
14	Interplay between Kondo physics and spin-orbit coupling in carbon nanotube quantum dots. <i>Physical Review B</i> , 2010, 81, .	3.2	36
15	A numerical renormalization group approach to non-equilibrium Green functions for quantum impurity models. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 195216.	1.8	34
16	Mixed-Valent Regime of the Two-Channel Anderson Impurity as a model for UBe13. <i>Physical Review Letters</i> , 1998, 81, 3235-3238.	7.8	33
17	Comparison between scattering-states numerical renormalization group and the Kadanoff-Baym-Keldysh approach to quantum transport: Crossover from weak to strong correlations. <i>Physical Review B</i> , 2010, 81, .	3.2	33
18	Spatial and temporal propagation of Kondo correlations. <i>Physical Review B</i> , 2014, 90, .	3.2	33

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19	Coulomb blockade in quantum boxes. <i>Physical Review B</i> , 2003, 68, .	3.2	29
20	Transferring spin into an extended π -orbital of a large molecule. <i>Physical Review B</i> , 2015, 91, .	3.2	24
21	Enhancement of the two-channel Kondo effect in single-electron boxes. <i>Physical Review B</i> , 2003, 68, .	3.2	23
22	Conserving approximations in direct perturbation theory: new semianalytical impurity solvers and their application to general lattice problems. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 365217.	1.8	23
23	Nonequilibrium Zeeman Splitting in Quantum Transport through Nanoscale Junctions. <i>Physical Review Letters</i> , 2011, 107, 056801.	7.8	23
24	Coherent control of correlated nanodevices: A hybrid time-dependent numerical renormalization-group approach to periodic switching. <i>Physical Review B</i> , 2012, 85, .	3.2	23
25	Conservation laws protect dynamic spin correlations from decay: Limited role of integrability in the central spin model. <i>Physical Review B</i> , 2014, 90, .	3.2	23
26	Renormalization-group approach to spectral properties of the two-channel Anderson impurity model. <i>Physical Review B</i> , 2005, 71, .	3.2	22
27	Influence of disorder on the transport properties of heavy-fermion systems. <i>Physical Review B</i> , 2008, 77, .	3.2	22
28	Can Competition between the Crystal Field and the Kondo Effect Cause Non-Fermi-Liquid-Like Behavior?. <i>Physical Review Letters</i> , 2006, 96, 086404.	7.8	20
29	Quantum model for mode locking in pulsed semiconductor quantum dots. <i>Physical Review B</i> , 2016, 94, .	3.2	20
30	Nonequilibrium nuclear spin distribution function in quantum dots subject to periodic pulses. <i>Physical Review B</i> , 2017, 96, .	3.2	20
31	Dissipative two-electron transfer: A numerical renormalization group study. <i>Physical Review B</i> , 2008, 78, .	3.2	19
32	Coulomb blockade and non-Fermi-liquid behavior in quantum dots. <i>Physical Review B</i> , 2004, 70, .	3.2	18
33	Influence of the nuclear Zeeman effect on mode locking in pulsed semiconductor quantum dots. <i>Physical Review B</i> , 2017, 96, .	3.2	18
34	Magnetic field dependence of the electron spin revival amplitude in periodically pulsed quantum dots. <i>Physical Review B</i> , 2018, 98, .	3.2	17
35	Spin noise in a quantum dot ensemble: From a quantum mechanical to a semi-classical description. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 1270-1275.	1.5	16
36	Two-channel pseudogap Kondo and Anderson models: Quantum phase transitions and non-Fermi liquids. <i>Physical Review B</i> , 2011, 84, .	3.2	15

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37	Composite spin and orbital triplet superconductivity formed out of a non-Fermi-liquid phase. Physical Review B, 2002, 66, .	3.2	14
38	Kinks in the electronic dispersion of the Hubbard model away from half filling. Physical Review B, 2011, 84, .	3.2	14
39	Modeling of the gate-controlled Kondo effect at carbon point defects in graphene. Physical Review B, 2018, 97, .	3.2	14
40	Interplay of Coulomb interaction and spin-orbit coupling. Physical Review B, 2016, 94, .	3.2	13
41	Decoherence of a single spin coupled to an interacting spin bath. Physical Review B, 2016, 93, .	3.2	13
42	Long-time coherence in fourth-order spin correlation functions. Physical Review B, 2017, 96, .	3.2	13
43	Gate-tunable Kondo resistivity and dephasing rate in graphene studied by numerical renormalization group calculations. Physical Review B, 2014, 89, .	3.2	12
44	Nuclear spin noise in the central spin model. Physical Review B, 2018, 97, .	3.2	12
45	From Ferromagnetism to Spin-Density Wave: Magnetism in the Two Channel Periodic Anderson Model. Physical Review Letters, 1999, 83, 4638-4641.	7.8	11
46	X-ray singularities in the electron spectral function of the Falicov-Kimball model. Physical Review B, 2005, 71, .	3.2	11
47	Effective low-energy description of the two-impurity Anderson model: RKKY interaction and quantum criticality. Physical Review B, 2018, 98, .	3.2	11
48	Strongly correlated multi-impurity models: The crossover from a single-impurity problem to lattice models. Physical Review B, 2020, 102, .	3.2	11
49	Lattice-driven femtosecond magnon dynamics in MnTe . Physical Review B, 2021, 104, .	3.2	11
50	From thermal equilibrium to nonequilibrium quench dynamics: A conserving approximation for the interacting resonant level. Physical Review B, 2014, 90, .	3.2	9
51	Realistic quantum critical point in one-dimensional two-impurity models. Physical Review B, 2017, 96, .	3.2	8
52	Inelastic electron tunneling spectroscopy for probing strongly correlated many-body systems by scanning tunneling microscopy. Physical Review B, 2020, 101, .	3.2	7
53	Coulomb blockade and quantum critical points in quantum dots. Physica B: Condensed Matter, 2005, 359-361, 1381-1383.	2.7	6
54	Signatures of long-range spin-spin interactions in an $(\text{In,Ga})\text{As}$ quantum dot ensemble. Physical Review B, 2018, 98, .	3.2	6

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55	Fourth-order spin correlation function in the extended central spin model. <i>Physical Review B</i> , 2019, 99, .	3.2	6
56	Analytical and numerical study of the out-of-equilibrium current through a helical edge coupled to a magnetic impurity. <i>Physical Review B</i> , 2020, 101, .	3.2	6
57	Beyond the NCA: new results for the spectral properties of the Anderson model. <i>Physica B: Condensed Matter</i> , 1995, 206-207, 177-179.	2.7	5
58	Quantum transport through a quantum dot: Combining the scattering-states numerical renormalization group with nonequilibrium Green functions. <i>Journal of Physics: Conference Series</i> , 2010, 220, 012021.	0.4	5
59	Electron spin noise under the conditions of nuclei-induced frequency focusing. <i>Physical Review B</i> , 2018, 98, .	3.2	5
60	Symmetric single-impurity Kondo model on a tight-binding chain: Comparison of analytical and numerical ground-state approaches. <i>Physical Review B</i> , 2020, 101, .	3.2	5
61	Magnetic blue shift of Mott gaps enhanced by double exchange. <i>Physical Review Research</i> , 2021, 3, .	3.6	5
62	Dynamics of large anisotropic spin in a sub-ohmic dissipative environment close to a quantum-phase transition. <i>New Journal of Physics</i> , 2008, 10, 115007.	2.9	4
63	Comment on "Scaling feature of magnetic field induced Kondo-peak splittings". <i>Physical Review B</i> , 2011, 83, .	3.2	4
64	Kinetic approach to nuclear-spin polaron formation. <i>Physical Review B</i> , 2020, 102, .	3.2	4
65	Cross-correlation spectra in interacting quantum dot systems. <i>Physical Review B</i> , 2022, 105, .	3.2	4
66	Multiple-charge transfer and trapping in DNA dimers. <i>Physical Review B</i> , 2010, 82, .	3.2	3
67	Real-time dynamics induced by quenches across the quantum critical points in gapless Fermi systems with a magnetic impurity. <i>Physical Review B</i> , 2014, 90, .	3.2	3
68	Equilibrium and real-time properties of the spin correlation function in the two-impurity Kondo model. <i>Physical Review B</i> , 2018, 98, .	3.2	3
69	Kondo holes in strongly correlated impurity arrays: RKKY-driven Kondo screening and hole-hole interactions. <i>Physical Review B</i> , 2021, 104, .	3.2	3
70	Quantum transport through a molecular level: a scattering states numerical renormalization group study. <i>Physica Scripta</i> , 2015, T165, 014007.	2.5	3
71	Restoring the continuum limit in the time-dependent numerical renormalization group approach. <i>Physical Review B</i> , 2020, 102, .	3.2	2
72	Spectral properties of strongly correlated multi-impurity models in the Kondo insulator regime: Emergent coherence, metallic surface states, and quantum phase transitions. <i>Physical Review B</i> , 2021, 104, .	3.2	1

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73	Nuclear-spin polaron formation: Anisotropy effects and quantum phase transition. Physical Review B, 2022, 105, .	3.2	0
74	Open Wilson chain numerical renormalization group approach to Green's functions. Physical Review B, 2022, 105, .	3.2	0