

Guy Cohen

List of Publications by Year in descending order

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38
papers

2,398
citations

279487

23
h-index

315357

38
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38
all docs

38
docs citations

38
times ranked

2659
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavily Doped Semiconductor Nanocrystal Quantum Dots. <i>Science</i> , 2011, 332, 77-81.	6.0	657
2	Absence of Diffusion in an Interacting System of Spinless Fermions on a One-Dimensional Disordered Lattice. <i>Physical Review Letters</i> , 2015, 114, 100601.	2.9	246
3	Taming the Dynamical Sign Problem in Real-Time Evolution of Quantum Many-Body Problems. <i>Physical Review Letters</i> , 2015, 115, 266802.	2.9	138
4	Electrostatic Force Microscopy Study of Single Au ⁺ CdSe Hybrid Nanodumbbells: Evidence for Light-Induced Charge Separation. <i>Nano Letters</i> , 2009, 9, 2031-2039.	4.5	132
5	Memory effects in nonequilibrium quantum impurity models. <i>Physical Review B</i> , 2011, 84, .	1.1	117
6	Numerically exact long-time magnetization dynamics at the nonequilibrium Kondo crossover of the Anderson impurity model. <i>Physical Review B</i> , 2013, 87, .	1.1	111
7	Decoherence and lead-induced interdot coupling in nonequilibrium electron transport through interacting quantum dots: A hierarchical quantum master equation approach. <i>Physical Review B</i> , 2013, 88, .	1.1	110
8	Bistability in a nonequilibrium quantum system with electron-phonon interactions. <i>Physical Review B</i> , 2013, 88, .	1.1	88
9	Green's Functions from Real-Time Bold-Line Monte Carlo Calculations: Spectral Properties of the Nonequilibrium Anderson Impurity Model. <i>Physical Review Letters</i> , 2014, 112, 146802.	2.9	80
10	Transport through an Anderson impurity: Current ringing, nonlinear magnetization, and a direct comparison of continuous-time quantum Monte Carlo and hierarchical quantum master equations. <i>Physical Review B</i> , 2015, 92, .	1.1	62
11	Constructing spin interference devices from nanometric rings. <i>Physical Review B</i> , 2007, 76, .	1.1	57
12	Green's functions from real-time bold-line Monte Carlo. <i>Physical Review B</i> , 2014, 89, .	1.1	51
13	Generalized projected dynamics for non-system observables of non-equilibrium quantum impurity models. <i>New Journal of Physics</i> , 2013, 15, 073018.	1.2	47
14	Inchworm Monte Carlo for exact non-adiabatic dynamics. I. Theory and algorithms. <i>Journal of Chemical Physics</i> , 2017, 146, 054105.	1.2	47
15	Numerically exact full counting statistics of the nonequilibrium Anderson impurity model. <i>Physical Review B</i> , 2018, 97, .	1.1	42
16	Application of a semiclassical model for the second-quantized many-electron Hamiltonian to nonequilibrium quantum transport: The resonant level model. <i>Journal of Chemical Physics</i> , 2011, 134, 164103.	1.2	40
17	Green's function methods for single molecule junctions. <i>Journal of Chemical Physics</i> , 2020, 152, 090901.	1.2	39
18	Currents and Green's functions of impurities out of equilibrium: Results from inchworm quantum Monte Carlo. <i>Physical Review B</i> , 2017, 95, .	1.1	36

#	ARTICLE	IF	CITATIONS
19	Anderson-Holstein model in two flavors of the noncrossing approximation. <i>Physical Review B</i> , 2016, 93, .	1.1	33
20	Inchworm Monte Carlo for exact non-adiabatic dynamics. II. Benchmarks and comparison with established methods. <i>Journal of Chemical Physics</i> , 2017, 146, 054106.	1.2	33
21	Dynamics of Kondo voltage splitting after a quantum quench. <i>Physical Review B</i> , 2019, 100, .	1.1	28
22	Quantum Monte Carlo solution of the dynamical mean field equations in real time. <i>Physical Review B</i> , 2017, 96, .	1.1	26
23	Inclusion-exclusion principle for many-body diagrammatics. <i>Physical Review B</i> , 2018, 98, .	1.1	24
24	Lead geometry and transport statistics in molecular junctions. <i>Journal of Chemical Physics</i> , 2019, 150, 244107.	1.2	20
25	Numerically exact full counting statistics of the energy current in the Kondo regime. <i>Physical Review B</i> , 2019, 100, .	1.1	19
26	Multiorbital Quantum Impurity Solver for General Interactions and Hybridizations. <i>Physical Review Letters</i> , 2020, 124, 206405.	2.9	19
27	Vacancy mediated ferromagnetic interaction in TiO ₂ doped with magnetic ions. <i>Journal of Applied Physics</i> , 2007, 101, 09H106.	1.1	16
28	Simulating Lattice Spin Models on Graphics Processing Units. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3293-3301.	2.3	14
29	A semiclassical model for the non-equilibrium quantum transport of a many-electron Hamiltonian coupled to phonons. <i>Molecular Physics</i> , 2012, 110, 743-750.	0.8	13
30	Auxiliary Master Equation for Nonequilibrium Dual-Fermion Approach. <i>Physical Review Letters</i> , 2019, 122, 186803.	2.9	12
31	Revealing strong correlations in higher-order transport statistics: A noncrossing approximation approach. <i>Physical Review B</i> , 2021, 103, .	1.1	11
32	Dynamic control of nonequilibrium metal-insulator transitions. <i>Physical Review B</i> , 2020, 102, .	1.1	6
33	Resolving the nonequilibrium Kondo singlet in energy- and position-space using quantum measurements. <i>SciPost Physics</i> , 2021, 10, .	1.5	6
34	Interaction-expansion inchworm Monte Carlo solver for lattice and impurity models. <i>Physical Review B</i> , 2022, 105, .	1.1	5
35	Numerical operator method for the real-time dynamics of strongly correlated quantum impurity systems far from equilibrium. <i>Physical Review B</i> , 2015, 91, .	1.1	4
36	Kondo cloud in a one-dimensional nanowire. <i>Physical Review B</i> , 2022, 105, .	1.1	4

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37	Correlated nonequilibrium steady states without energy flux. <i>Physical Review B</i> , 2020, 101, .	1.1	3
38	Negative differential spin conductance by population switching. <i>Molecular Physics</i> , 2008, 106, 341-347.	0.8	2