

Theo A Costi

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72
papers

5,002
citations

30
h-index

70
g-index

75
ext. papers

5,473
ext. citations

5.5
avg, IF

5.65
L-index

#	Paper	IF	Citations
72	Numerical renormalization group method for quantum impurity systems. <i>Reviews of Modern Physics</i> , 2008 , 80, 395-450	40.5	1010
71	Metallic and insulating phases of repulsively interacting fermions in a 3D optical lattice. <i>Science</i> , 2008 , 322, 1520-5	33.3	560
70	Transport coefficients of the Anderson model via the numerical renormalization group. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 2519-2558	1.8	381
69	Mechanical control of spin states in spin-1 molecules and the underscreened Kondo effect. <i>Science</i> , 2010 , 328, 1370-3	33.3	343
68	Kondo effect in a magnetic field and the magnetoresistivity of kondo alloys. <i>Physical Review Letters</i> , 2000 , 85, 1504-7	7.4	243
67	Finite-temperature numerical renormalization group study of the Mott transition. <i>Physical Review B</i> , 2001 , 64,	3.3	226
66	Mott transition and transport crossovers in the organic compound kappa-(BEDT-TTF)2Cu[N(CN)2]Cl. <i>Physical Review Letters</i> , 2003 , 91, 016401	7.4	211
65	Thermoelectric transport through strongly correlated quantum dots. <i>Physical Review B</i> , 2010 , 81,	3.3	147
64	Transmission phase shift of a quantum dot with kondo correlations. <i>Physical Review Letters</i> , 2000 , 84, 3710-3	7.4	120
63	Spectral properties of the Anderson impurity model: Comparison of numerical-renormalization-group and noncrossing-approximation results. <i>Physical Review B</i> , 1996 , 53, 1850-1865	3.3	107
62	Equilibrium dynamics of the dissipative two-state system. <i>Physical Review Letters</i> , 1996 , 76, 1683-1686	7.4	94
61	Spin-1/2 Kondo effect in an InAs nanowire quantum dot: Unitary limit, conductance scaling, and Zeeman splitting. <i>Physical Review B</i> , 2011 , 84,	3.3	93
60	Mott transition of fermionic atoms in a three-dimensional optical trap. <i>Physical Review Letters</i> , 2008 , 100, 056403	7.4	92
59	Observation of the underscreened Kondo effect in a molecular transistor. <i>Physical Review Letters</i> , 2009 , 103, 197202	7.4	84
58	Entanglement between a qubit and the environment in the spin-boson model. <i>Physical Review A</i> , 2003 , 68,	2.6	78
57	Magnetotransport through a strongly interacting quantum dot. <i>Physical Review B</i> , 2001 , 64,	3.3	76
56	Kondo decoherence: finding the right spin model for iron impurities in gold and silver. <i>Physical Review Letters</i> , 2009 , 102, 056802	7.4	68

55	Scaling and Universality in the Anisotropic Kondo Model and the Dissipative Two-State System. <i>Physical Review Letters</i> , 1998 , 80, 1038-1041	7.4	64
54	Mechanism for large thermoelectric power in molecular quantum dots described by the negative-U Anderson model. <i>Physical Review B</i> , 2011 , 84,	3.3	57
53	Kondo proximity effect: how does a metal penetrate into a Mott insulator?. <i>Physical Review Letters</i> , 2008 , 101, 066802	7.4	56
52	Renormalization-group approach to nonequilibrium Green functions in correlated impurity systems. <i>Physical Review B</i> , 1997 , 55, 3003-3009	3.3	54
51	Spectral function of the Kondo model in high magnetic fields. <i>Physical Review B</i> , 2003 , 68,	3.3	47
50	Numerical renormalization group study of pseudo-fermion and slave-boson spectral functions in the single impurity Anderson model. <i>Physical Review Letters</i> , 1994 , 73, 1275-1278	7.4	44
49	Resistivity cross-over for the non-degenerate Anderson model. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1992 , 65, 1165-1170		43
48	Unified Description of Fermi and Non-Fermi Liquid Behavior in a Conserving Slave Boson Approximation for Strongly Correlated Impurity Models. <i>Physical Review Letters</i> , 1997 , 79, 261-264	7.4	42
47	Universal dephasing rate due to diluted Kondo impurities. <i>Physical Review Letters</i> , 2006 , 96, 226601	7.4	41
46	Scaling of the low-temperature dephasing rate in Kondo systems. <i>Physical Review Letters</i> , 2006 , 97, 226804	7.4	40
45	Thermodynamics of the dissipative two-state system: A Bethe-ansatz study. <i>Physical Review B</i> , 1999 , 59, 12398-12418	3.3	38
44	Low-Energy Scales and Temperature-Dependent Photoemission of Heavy Fermions. <i>Journal of Low Temperature Physics</i> , 2002 , 126, 835-866	1.3	32
43	Quantum phase transition in the two-band Hubbard model. <i>Physical Review Letters</i> , 2007 , 99, 236404	7.4	31
42	Thermoelectric power of concentrated Kondo systems. <i>Physical Review B</i> , 1993 , 48, 16152-16155	3.3	27
41	Charge Kondo anomalies in PbTe doped with Tl impurities. <i>Physical Review Letters</i> , 2012 , 108, 036402	7.4	25
40	Conductance scaling in Kondo-correlated quantum dots: Role of level asymmetry and charging energy. <i>Physical Review B</i> , 2013 , 87,	3.3	24
39	Magnetic field dependence of dephasing rate due to diluted Kondo impurities. <i>Physical Review B</i> , 2007 , 75,	3.3	24
38	A new approach to the calculation of spectra for strongly correlated systems. <i>Physica B: Condensed Matter</i> , 1990 , 163, 179-181	2.8	24

37	Direct Probe of the Seebeck Coefficient in a Kondo-Correlated Single-Quantum-Dot Transistor. <i>Nano Letters</i> , 2019 , 19, 506-511	11.5	24
36	Full density-matrix numerical renormalization group calculation of impurity susceptibility and specific heat of the Anderson impurity model. <i>Physical Review B</i> , 2012 , 86,	3.3	23
35	The Mott transition: Unconventional transport, spectral weight transfers, and critical behaviour. <i>European Physical Journal Special Topics</i> , 2004 , 114, 165-173		22
34	Non-Fermi-liquid phases in the two-band Hubbard model: finite-temperature exact diagonalization study of Hund's rule coupling. <i>European Physical Journal B</i> , 2006 , 51, 523-536	1.2	21
33	Transport coefficients of the Anderson model. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, L361-L368	1.8	21
32	Generalization of the time-dependent numerical renormalization group method to finite temperatures and general pulses. <i>Physical Review B</i> , 2014 , 89,	3.3	20
31	Time-dependent numerical renormalization group method for multiple quenches: Application to general pulses and periodic driving. <i>Physical Review B</i> , 2014 , 90,	3.3	20
30	Iron impurities in gold and silver: Comparison of transport measurements to numerical renormalization group calculations exploiting non-Abelian symmetries. <i>Physical Review B</i> , 2013 , 88,	3.3	20
29	Theory of the electronic properties of mixed valent compounds. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 5665-5682		19
28	Time Evolution of the Kondo Resonance in Response to a Quench. <i>Physical Review Letters</i> , 2017 , 119, 156601	7.4	17
27	Photoemission spectrum of the Anderson model with conduction electron screening. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 108, 129-130	2.8	14
26	Static and dynamic properties of the Anderson model with conduction electron screening. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 2649-2650	1.3	13
25	Magnetic correlations and the anisotropic Kondo effect in Ce _{1-x} LaxAl ₃ . <i>Physical Review Letters</i> , 2002 , 89, 147201	7.4	12
24	The electrical resistivity of mixed valence materials due to nonmagnetic impurities. <i>European Physical Journal B</i> , 1985 , 60, 189-194	1.2	12
23	Ohmic two-state system from the perspective of the interacting resonant level model: Thermodynamics and transient dynamics. <i>Physical Review B</i> , 2016 , 93,	3.3	10
22	A self-consistent green's function method for the periodic Anderson Hamiltonian. <i>Journal of Magnetism and Magnetic Materials</i> , 1985 , 47-48, 384-387	2.8	10
21	Exponential and power-law renormalization in phonon-assisted tunneling. <i>Physical Review B</i> , 2017 , 96,	3.3	9
20	Influence of phonon-assisted tunneling on the linear thermoelectric transport through molecular quantum dots. <i>Physical Review B</i> , 2017 , 96,	3.3	9

19	Numerical renormalization group calculation of impurity internal energy and specific heat of quantum impurity models. <i>Physical Review B</i> , 2012 , 86,	3.3	9
18	Nonequilibrium thermoelectric transport through vibrating molecular quantum dots. <i>Physical Review B</i> , 2018 , 98,	3.3	9
17	Magnetic field dependence of the thermopower of Kondo-correlated quantum dots. <i>Physical Review B</i> , 2019 , 100,	3.3	8
16	Quantum Monte Carlo simulations of dilute and concentrated heavy-fermion systems. <i>Solid State Communications</i> , 1988 , 66, 343-346	1.6	8
15	Infrared divergences in the kondo problem. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 2287-2288	1.3	6
14	Time-dependent numerical renormalization group method for multiple quenches: Towards exact results for the long-time limit of thermodynamic observables and spectral functions. <i>Physical Review B</i> , 2018 , 98,	3.3	3
13	Magnetic field dependence of the thermopower of Kondo-correlated quantum dots: Comparison with experiment. <i>Physical Review B</i> , 2019 , 100,	3.3	2
12	Reply to "Comment on "Conductance scaling in Kondo-correlated quantum dots: Role of level asymmetry and charging energy" <i>Physical Review B</i> , 2014 , 90,	3.3	2
11	Spectral density of the local Cu-O model. <i>Physical Review B</i> , 1997 , 55, 6670-6673	3.3	2
10	Thermoelectric power of heavy fermions by renormalization group calculations. <i>Physica B: Condensed Matter</i> , 1994 , 199-200, 81-84	2.8	2
9	Pairing correlations and susceptibilities of the one-dimensional Hubbard model. <i>Solid State Communications</i> , 1989 , 69, 837-841	1.6	2
8	The static susceptibility of the periodic Anderson hamiltonian. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 5683-5688		2
7	Magnetic-Field Universality of the Kondo Effect Revealed by Thermocurrent Spectroscopy.. <i>Physical Review Letters</i> , 2022 , 128, 147701	7.4	2
6	The renormalized superperturbation theory (rSPT) approach to the Anderson model in and out of equilibrium. <i>Journal of Physics: Conference Series</i> , 2017 , 807, 092001	0.3	1
5	Thermoelectric effects in correlated quantum dots and molecules. <i>Journal of Physics: Conference Series</i> , 2011 , 273, 012155	0.3	1
4	Quantum Fluctuations and Electronic Transport Through Strongly Interacting Quantum Dots 2003 , 247-256		1
3	Wilson's numerical renormalization group 1999 , 3-25		
2	Conserving slave boson approximations for the anderson model beyond NCA. <i>European Physical Journal D</i> , 1996 , 46, 1897-1898		

1 Charge Kondo Effect in Thermoelectric Properties of Lead Telluride Doped with Thallium Impurities. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2013**, 67-80

0.2