

Theo A Costi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Magnetic-Field Universality of the Kondo Effect Revealed by Thermocurrent Spectroscopy.. <i>Physical Review Letters</i> , 2022 , 128, 147701	7.4	2
71	Magnetic field dependence of the thermopower of Kondo-correlated quantum dots: Comparison with experiment. <i>Physical Review B</i> , 2019 , 100,	3.3	2
70	Magnetic field dependence of the thermopower of Kondo-correlated quantum dots. <i>Physical Review B</i> , 2019 , 100,	3.3	8
69	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
68	Nonequilibrium thermoelectric transport through vibrating molecular quantum dots. <i>Physical Review B</i> , 2018 , 98,	3.3	9
67	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
66	Time Evolution of the Kondo Resonance in Response to a Quench. <i>Physical Review Letters</i> , 2017 , 119, 156601	7.4	17
65	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
64	Exponential and power-law renormalization in phonon-assisted tunneling. <i>Physical Review B</i> , 2017 , 96,	3.3	9
63	Influence of phonon-assisted tunneling on the linear thermoelectric transport through molecular quantum dots. <i>Physical Review B</i> , 2017 , 96,	3.3	9
62	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
61	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
60	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
59	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
58	Conductance scaling in Kondo-correlated quantum dots: Role of level asymmetry and charging energy. <i>Physical Review B</i> , 2013 , 87,	3.3	24
57	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
56	Charge Kondo Effect in Thermoelectric Properties of Lead Telluride Doped with Thallium Impurities. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2013 , 67-80	0.2	

55	Charge Kondo anomalies in PbTe doped with Tl impurities. <i>Physical Review Letters</i> , 2012 , 108, 036402	7.4	25
54	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
53	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
52	Thermoelectric effects in correlated quantum dots and molecules. <i>Journal of Physics: Conference Series</i> , 2011 , 273, 012155	0.3	1
51	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
50	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
49	Thermoelectric transport through strongly correlated quantum dots. <i>Physical Review B</i> , 2010 , 81,	3.3	147
48	Mechanical control of spin states in spin-1 molecules and the underscreened Kondo effect. <i>Science</i> , 2010 , 328, 1370-3	33.3	343
47	Observation of the underscreened Kondo effect in a molecular transistor. <i>Physical Review Letters</i> , 2009 , 103, 197202	7.4	84
46	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
45	Numerical renormalization group method for quantum impurity systems. <i>Reviews of Modern Physics</i> , 2008 , 80, 395-450	40.5	1010
44	Kondo proximity effect: how does a metal penetrate into a Mott insulator?. <i>Physical Review Letters</i> , 2008 , 101, 066802	7.4	56
43	Metallic and insulating phases of repulsively interacting fermions in a 3D optical lattice. <i>Science</i> , 2008 , 322, 1520-5	33.3	560
42	Mott transition of fermionic atoms in a three-dimensional optical trap. <i>Physical Review Letters</i> , 2008 , 100, 056403	7.4	92
41	Quantum phase transition in the two-band Hubbard model. <i>Physical Review Letters</i> , 2007 , 99, 236404	7.4	31
40	Magnetic field dependence of dephasing rate due to diluted Kondo impurities. <i>Physical Review B</i> , 2007 , 75,	3.3	24
39	Universal dephasing rate due to diluted Kondo impurities. <i>Physical Review Letters</i> , 2006 , 96, 226601	7.4	41
38	Scaling of the low-temperature dephasing rate in Kondo systems. <i>Physical Review Letters</i> , 2006 , 97, 226804	7.4	40

37	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
36	The Mott transition: Unconventional transport, spectral weight transfers, and critical behaviour. <i>European Physical Journal Special Topics</i> , 2004 , 114, 165-173		22
35	Entanglement between a qubit and the environment in the spin-boson model. <i>Physical Review A</i> , 2003 , 68,	2.6	78
34	Spectral function of the Kondo model in high magnetic fields. <i>Physical Review B</i> , 2003 , 68,	3.3	47
33	Mott transition and transport crossovers in the organic compound κ -(BEDT-TTF) ₂ Cu[N(CN) ₂]Cl. <i>Physical Review Letters</i> , 2003 , 91, 016401	7.4	211
32	Quantum Fluctuations and Electronic Transport Through Strongly Interacting Quantum Dots 2003 , 247-256		1
31	Low-Energy Scales and Temperature-Dependent Photoemission of Heavy Fermions. <i>Journal of Low Temperature Physics</i> , 2002 , 126, 835-866	1.3	32
30	Magnetic correlations and the anisotropic Kondo effect in Ce _{1-x} La _x Al ₃ . <i>Physical Review Letters</i> , 2002 , 89, 147201	7.4	12
29	Magnetotransport through a strongly interacting quantum dot. <i>Physical Review B</i> , 2001 , 64,	3.3	76
28	Finite-temperature numerical renormalization group study of the Mott transition. <i>Physical Review B</i> , 2001 , 64,	3.3	226
27	Kondo effect in a magnetic field and the magnetoresistivity of kondo alloys. <i>Physical Review Letters</i> , 2000 , 85, 1504-7	7.4	243
26	Transmission phase shift of a quantum dot with kondo correlations. <i>Physical Review Letters</i> , 2000 , 84, 3710-3	7.4	120
25	Wilson's numerical renormalization group 1999 , 3-25		
24	Thermodynamics of the dissipative two-state system: A Bethe-ansatz study. <i>Physical Review B</i> , 1999 , 59, 12398-12418	3.3	38
23	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
22	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
21	Spectral density of the local Cu-O model. <i>Physical Review B</i> , 1997 , 55, 6670-6673	3.3	2
20	Renormalization-group approach to nonequilibrium Green functions in correlated impurity systems. <i>Physical Review B</i> , 1997 , 55, 3003-3009	3.3	54

19	Conserving slave boson approximations for the anderson model beyond NCA. <i>European Physical Journal D</i> , 1996 , 46, 1897-1898		
18	Equilibrium dynamics of the dissipative two-state system. <i>Physical Review Letters</i> , 1996 , 76, 1683-1686	7.4	94
17	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
16	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
15	Thermoelectric power of heavy fermions by renormalization group calculations. <i>Physica B: Condensed Matter</i> , 1994 , 199-200, 81-84	2.8	2
14	Infrared divergences in the kondo problem. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 2287-2288	1.3	6
13	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
12	Thermoelectric power of concentrated Kondo systems. <i>Physical Review B</i> , 1993 , 48, 16152-16155	3.3	27
11	Transport coefficients of the Anderson model. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, L361-L368	1.8	21
10	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
9	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
8	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
7	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
6	Pairing correlations and susceptibilities of the one-dimensional Hubbard model. <i>Solid State Communications</i> , 1989 , 69, 837-841	1.6	2
5	Quantum Monte Carlo simulations of dilute and concentrated heavy-fermion systems. <i>Solid State Communications</i> , 1988 , 66, 343-346	1.6	8
4	The static susceptibility of the periodic Anderson hamiltonian. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 5683-5688		2
3	Theory of the electronic properties of mixed valent compounds. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 5665-5682		19
2	The electrical resistivity of mixed valence materials due to nonmagnetic impurities. <i>European Physical Journal B</i> , 1985 , 60, 189-194	1.2	12

- 1 A self-consistent green's function method for the periodic Anderson Hamiltonian. *Journal of Magnetism and Magnetic Materials*, **1985**, 47-48, 384-387

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