

Adrian E Feiguin

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.

63 papers	2,334 citations	21 h-index	48 g-index
69 ext. papers	2,750 ext. citations	4.3 avg, IF	5.23 L-index

#	Paper	IF	Citations
63	From deconfined spinons to coherent magnons in an antiferromagnetic Heisenberg chain with long range interactions. <i>SciPost Physics</i> , 2021 , 10,	6.1	2
62	Quantum Spin Torque Driven Transmutation of an Antiferromagnetic Mott Insulator. <i>Physical Review Letters</i> , 2021 , 126, 197202	7.4	2
61	Spintronics Meets Density Matrix Renormalization Group: Quantum Spin-Torque-Driven Nonclassical Magnetization Reversal and Dynamical Buildup of Long-Range Entanglement. <i>Physical Review X</i> , 2021 , 11,	9.1	1
60	A graphene edge-mediated quantum gate. <i>Applied Physics Letters</i> , 2021 , 119, 064001	3.4	
59	Many-Body Effects in FeN ₄ Center Embedded in Graphene. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2542.6		6
58	Qubit-photon corner states in all dimensions. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
57	Signatures of topological ground state degeneracy in Majorana islands. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
56	Spectral function of Mott-insulating Hubbard ladders: From fractionalized excitations to coherent quasiparticles. <i>Physical Review B</i> , 2019 , 99,	3.3	3
55	Spinon confinement and a sharp longitudinal mode in YbPtPb in magnetic fields. <i>Nature Communications</i> , 2019 , 10, 1123	17.4	16
54	A Numerically Exact Approach to Quantum Impurity Problems in Realistic Lattice Geometries. <i>Frontiers in Physics</i> , 2019 , 7,	3.9	4
53	Time- and momentum-resolved tunneling spectroscopy of pump-driven nonthermal excitations in Mott insulators. <i>Physical Review B</i> , 2019 , 100,	3.3	4
52	Quantum Liquid with Strong Orbital Fluctuations: The Case of a Pyroxene Family. <i>Physical Review Letters</i> , 2019 , 123, 237204	7.4	3
51	Machine learning approach to dynamical properties of quantum many-body systems. <i>Physical Review B</i> , 2019 , 100,	3.3	6
50	Unconventional field induced phases in a quantum magnet formed by free radical tetramers. <i>Physical Review B</i> , 2018 , 97,	3.3	3
49	Finite-temperature dynamics of the Mott insulating Hubbard chain. <i>Physical Review B</i> , 2018 , 97,	3.3	10
48	Spin-1 two-impurity Kondo problem on a lattice. <i>Physical Review B</i> , 2018 , 97,	3.3	2
47	Excitonic density waves, biexcitons, and orbital-selective pairing in two-orbital correlated chains. <i>Physical Review B</i> , 2018 , 98,	3.3	1

46	Photoinduced Hund excitons in the breakdown of a two-orbital Mott insulator. <i>Physical Review B</i> , 2018 , 97,	3.3	3
45	Unconventional fermionic pairing states in a monochromatically tilted optical lattice. <i>Physical Review A</i> , 2017 , 95,	2.6	6
44	Competition between Kondo effect and RKKY physics in graphene magnetism. <i>Physical Review B</i> , 2017 , 95,	3.3	21
43	Unveiling the internal entanglement structure of the Kondo singlet. <i>Physical Review B</i> , 2017 , 95,	3.3	11
42	Coupled spin-12 ladders as microscopic models for non-Abelian chiral spin liquids. <i>Physical Review B</i> , 2017 , 95,	3.3	7
41	Nonperturbative effects and indirect exchange interaction between quantum impurities on metallic (111) surfaces. <i>Physical Review B</i> , 2017 , 95,	3.3	5
40	Chiral liquid phase of simple quantum magnets. <i>Physical Review B</i> , 2017 , 96,	3.3	9
39	Spatial structure of correlations around a quantum impurity at the edge of a two-dimensional topological insulator. <i>Physical Review B</i> , 2017 , 96,	3.3	9
38	Efficiency of fermionic quantum distillation. <i>Physical Review A</i> , 2017 , 96,	2.6	5
37	Spectral function of the two-dimensional Hubbard model: A density matrix renormalization group plus cluster perturbation theory study. <i>Physical Review B</i> , 2016 , 93,	3.3	10
36	Suppressing Spectral Diffusion of Emitted Photons with Optical Pulses. <i>Physical Review Letters</i> , 2016 , 116, 033603	7.4	15
35	Crystallization of spin superlattices with pressure and field in the layered magnet SrCu ₂ (BO ₃) ₂ . <i>Nature Communications</i> , 2016 , 7, 11956	17.4	23
34	Kondo versus indirect exchange: Role of lattice and actual range of RKKY interactions in real materials. <i>Physical Review B</i> , 2015 , 91,	3.3	24
33	Spin filtering in a double quantum dot device: Numerical renormalization group study of the internal structure of the Kondo state. <i>Applied Physics Letters</i> , 2014 , 104, 132401	3.4	9
32	Photoexcitation of electronic instabilities in one-dimensional charge-transfer systems. <i>Physical Review B</i> , 2014 , 90,	3.3	10
31	Feiguin and Fisher reply. <i>Physical Review Letters</i> , 2014 , 113, 019602	7.4	1
30	Interplay of charge, spin, and lattice degrees of freedom in the spectral properties of the one-dimensional Hubbard-Holstein model. <i>Physical Review B</i> , 2014 , 90,	3.3	5
29	Anyonic liquids in nearly saturated spin chains. <i>Physical Review Letters</i> , 2014 , 113, 267201	7.4	5

28	Exact real-space renormalization method and applications. <i>Physical Review B</i> , 2013 , 88,	3.3	2
27	Lanczos transformation for quantum impurity problems in d-dimensional lattices: Application to graphene nanoribbons. <i>Physical Review B</i> , 2013 , 88,	3.3	22
26	One-dimensional itinerant interacting non-Abelian anyons. <i>Physical Review B</i> , 2013 , 87,	3.3	10
25	Relaxation towards negative temperatures in bosonic systems: Generalized Gibbs ensembles and beyond integrability. <i>Physical Review A</i> , 2013 , 88,	2.6	4
24	General method for calculating the universal conductance of strongly correlated junctions of multiple quantum wires. <i>Physical Review B</i> , 2012 , 85,	3.3	26
23	Electrostatic control over polarized currents through the spin-orbital Kondo effect. <i>Physical Review B</i> , 2012 , 85,	3.3	19
22	Junctions of multiple quantum wires with different Luttinger parameters. <i>Physical Review B</i> , 2012 , 86,	3.3	26
21	The Density Matrix Renormalization Group and its time-dependent variants 2011 ,		7
20	SU(N) magnetism in chains of ultracold alkaline-earth-metal atoms: Mott transitions and quantum correlations. <i>Physical Review A</i> , 2011 , 84,	2.6	58
19	Spin-incoherent behavior in the ground state of strongly correlated systems. <i>Physical Review Letters</i> , 2011 , 106, 146401	7.4	12
18	Transport in carbon nanotubes: Two-level SU(2) regime reveals subtle competition between Kondo and intermediate valence states. <i>Physical Review B</i> , 2011 , 83,	3.3	24
17	Real-time dynamics of particle-hole excitations in Mott insulator-metal junctions. <i>Physical Review B</i> , 2010 , 81,	3.3	16
16	BCS-BEC crossover and the disappearance of Fulde-Ferrell-Larkin-Ovchinnikov correlations in a spin-imbalanced one-dimensional Fermi gas. <i>Physical Review A</i> , 2010 , 81,	2.6	29
15	Nonequilibrium electronic transport in a one-dimensional Mott insulator. <i>Physical Review B</i> , 2010 , 82,	3.3	64
14	Phase separation of trapped spin-imbalanced Fermi gases in one-dimensional optical lattices. <i>Physical Review A</i> , 2010 , 81,	2.6	39
13	Real-time simulations of nonequilibrium transport in the single-impurity Anderson model. <i>Physical Review B</i> , 2009 , 79,	3.3	136
12	Quantum distillation: Dynamical generation of low-entropy states of strongly correlated fermions in an optical lattice. <i>Physical Review A</i> , 2009 , 80,	2.6	74
11	Spectral properties of a partially spin-polarized one-dimensional Hubbard/Luttinger superfluid. <i>Physical Review B</i> , 2009 , 79,	3.3	22

10	Spin polaron in the J1J2 Heisenberg model. <i>Physical Review B</i> , 2008 , 77,	3.3	6
9	Excitons in the one-dimensional Hubbard model: a real-time study. <i>Physical Review Letters</i> , 2008 , 100, 166403	7.4	40
8	Nonequilibrium transport through a point contact in the $\nu = 5/2$ non-Abelian quantum Hall state. <i>Physical Review Letters</i> , 2008 , 101, 236801	7.4	21
7	Transport properties and Kondo correlations in nanostructures: Time-dependent DMRG method applied to quantum dots coupled to Wilson chains. <i>Physical Review B</i> , 2008 , 78,	3.3	62
6	Pairing states of a polarized Fermi gas trapped in a one-dimensional optical lattice. <i>Physical Review B</i> , 2007 , 76,	3.3	131
5	Cooper-pair transport through a Hubbard chain sandwiched between two superconductors: Density matrix renormalization group calculations. <i>Physical Review B</i> , 2007 , 75,	3.3	9
4	Adaptive time-dependent density-matrix renormalization-group technique for calculating the conductance of strongly correlated nanostructures. <i>Physical Review B</i> , 2006 , 73,	3.3	69
3	Time-step targeting methods for real-time dynamics using the density matrix renormalization group. <i>Physical Review B</i> , 2005 , 72,	3.3	104
2	Finite-temperature density matrix renormalization using an enlarged Hilbert space. <i>Physical Review B</i> , 2005 , 72,	3.3	182
1	Real-time evolution using the density matrix renormalization group. <i>Physical Review Letters</i> , 2004 , 93, 076401	7.4	874