Rodrigo G Pereira

List of Publications by Year in descending order

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Version: 2024-02-01

52 papers 1,724 citations

393982 19 h-index 276539 41 g-index

52 all docs 52 docs citations

52 times ranked 1209 citing authors

#	Article	IF	CITATIONS
1	Diffusion and Ballistic Transport in One-Dimensional Quantum Systems. Physical Review Letters, 2009, 103, 216602.	2.9	196
2	Exotic phases induced by strong spin-orbit coupling in ordered double perovskites. Physical Review B, 2010, 82, .	1.1	192
3	Conservation laws, integrability, and transport in one-dimensional quantum systems. Physical Review B, 2011, 83, .	1.1	167
4	Dynamical Spin Structure Factor for the Anisotropic Spin-1/2Heisenberg Chain. Physical Review Letters, 2006, 96, 257202.	2.9	138
5	Exact Edge Singularities and Dynamical Correlations in Spin- <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:math> Chains. Physical Review Letters, 2008, 100, 027206.	2.9	105
6	Spectral function of spinless fermions on a one-dimensional lattice. Physical Review B, 2009, 79, .	1.1	90
7	Exactly conserved quasilocal operators for the XXZ spin chain. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P09037.	0.9	83
8	Dynamical structure factor at smallqfor the XXZ spin-1/2 chain. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P08022-P08022.	0.9	74
9	Chiral spin liquids in arrays of spin chains. Physical Review B, 2015, 91, .	1.1	62
10	Kondo effect in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> -symmetric non-Hermitian Hamiltonian. Physical Review B, 2018, 98, .	1.1	52
11	Unveiling phase transitions with machine learning. Physical Review B, 2019, 100, .	1.1	50
12	Dimerization Induced by the RKKY Interaction. Physical Review Letters, 2003, 90, 247204.	2.9	47
13	Chiral Spin-Orbital Liquids with Nodal Lines. Physical Review Letters, 2016, 117, 017204.	2.9	32
14	SU(4) Heisenberg model on the honeycomb lattice with exchange-frustrated perturbations: Implications for twistronics and Mott insulators. Physical Review B, 2019, 100, .	1.1	32
15	Spin-charge coupling in quantum wires at zero magnetic field. Physical Review B, 2010, 82, .	1.1	30
16	Charge dynamics in half-filled Hubbard chains with finite on-site interaction. Physical Review B, 2012, 85, .	1.1	27
17	Kondo screening cloud and charge staircase in one-dimensional mesoscopic devices. Physical Review B, 2008, 77, .	1.1	26
18	SU(4)-symmetric spin-orbital liquids on the hyperhoneycomb lattice. Physical Review B, 2018, 98, .	1.1	23

#	Article	IF	CITATIONS
19	Low temperature dynamics of nonlinear Luttinger liquids. New Journal of Physics, 2015, 17, 103003.	1.2	22
20	Electrical Access to Ising Anyons in Kitaev Spin Liquids. Physical Review Letters, 2020, 125, 227202.	2.9	20
21	Spinon and bound-state excitation light cones in Heisenberg XXZ chains. Physical Review B, 2017, 95, .	1.1	19
22	Magnetically controlled impurities in quantum wires with strong Rashba coupling. Physical Review B, 2005, 71, .	1.1	18
23	Dynamics of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>j</mml:mi><mml:mo>=<td>o><mml:m</td><td>frac8<mml:m< td=""></mml:m<></td></mml:mo></mml:mrow></mml:math>	o>< mm l:m	fra c 8 <mml:m< td=""></mml:m<>
24	LONG TIME CORRELATIONS OF NONLINEAR LUTTINGER LIQUIDS. International Journal of Modern Physics B, 2012, 26, 1244008.	1.0	17
25	Edge magnetization and spin transport in an SU(2)-symmetric Kitaev spin liquid. Physical Review B, 2018, 98, .	1.1	16
26	Gapless chiral spin liquid from coupled chains on the kagome lattice. SciPost Physics, 2018, 4, .	1.5	15
27	Domain-wall scattering in an interacting one-dimensional electron gas. Physical Review B, 2004, 69, .	1.1	13
28	Orbital multicriticality in spin-gapped quasi-one-dimensional antiferromagnets. Physical Review B, 2011, 84, .	1.1	12
29	Spin-charge-separated quasiparticles in one-dimensional quantum fluids. Physical Review B, 2015, 91, .	1.1	12
30	Nonuniversality of entanglement convertibility. Physical Review B, 2014, 89, .	1.1	10
31	Quantum spin circulator in Y junctions of Heisenberg chains. Physical Review B, 2018, 97, .	1.1	10
32	Chiral Y junction of quantum spin chains. Nuclear Physics B, 2019, 941, 794-837.	0.9	10
33	Spin Chain Network Construction of Chiral Spin Liquids. Physical Review Letters, 2019, 123, 137202.	2.9	9
34	Confinement and bound states of bound states in a transverse-field two-leg Ising ladder. Physical Review B, 2020, 102, .	1.1	9
35	Quadrupolar spin liquid, octupolar Kondo coupling, and odd-frequency superconductivity in an exactly solvable model. Physical Review B, 2020, 102, .	1.1	9
36	Quench dynamics and relaxation of a spin coupled to interacting leads. Physical Review B, 2021, 103, .	1.1	8

#	Article	IF	Citations
37	Tkachenko Polarons in Vortex Lattices. Physical Review Letters, 2013, 111, 115304.	2.9	7
38	Phonon-limited transport and Fermi arc lifetime in Weyl semimetals. Physical Review B, 2022, 105, .	1.1	6
39	Boson decay and the dynamical structure factor for the XXZ chain at finite magnetic field. Physica B: Condensed Matter, 2008, 403, 1520-1522.	1.3	5
40	Boundary versus bulk behavior of time-dependent correlation functions in one-dimensional quantum systems. Physical Review B, 2016, 93, .	1.1	5
41	Superconductivity from piezoelectric interactions in Weyl semimetals. Physical Review B, 2019, 100, .	1.1	4
42	Fractons from a liquid of singlet pairs. Physical Review B, 2021, 103, .	1.1	4
43	Dynamical structure factors in the nematic phase of frustrated ferromagnetic spin chains. Physical Review B, 2018, 98, .	1.1	3
44	Gapless excitations in non-Abelian Kitaev spin liquids with line defects. Physical Review B, 2022, 105, .	1.1	3
45	Coexistence of spontaneous dimerization and magnetic order in a transverse-field Ising ladder with four-spin interactions. Physical Review B, 2022, 105, .	1.1	3
46	The case of SU(3) criticality in spin-2 chains. Physical Review B, 2022, 105, .	1.1	3
47	Mobile impurities and orthogonality catastrophe in two-dimensional vortex lattices. Physical Review A, 2015, 91, .	1.0	2
48	Tunable breakdown of the polaron picture for mobile impurities in a topological semimetal. Physical Review B, 2016, 94, .	1.1	2
49	Continuous phase transition from a chiral spin state to collinear magnetic order in a zigzag chain with Kitaev interactions. Physical Review B, 2022, 105, .	1.1	2
50	Kondo dynamics in one-dimensional doped ferromagnetic insulators. Physical Review B, 2015, 91, .	1.1	1
51	Bound states in two-dimensional Fermi systems with quadratic band touching. Physical Review B, 2020, 101, .	1.1	1
52	From Quantum Spin Chains to Chiral Spin Liquids. Springer Proceedings in Physics, 2020, , 309-323.	0.1	O