

Dmitri A Ivanov

List of Publications by Year in descending order

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59
papers

3,303
citations

257450
24
h-index

149698
56
g-index

59
all docs

59
docs citations

59
times ranked

2706
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Abelian Statistics of Half-Quantum Vortices in p-Wave Superconductors. Physical Review Letters, 2001, 86, 268-271.	7.8	1,529
2	Topologically protected quantum bits using Josephson junction arrays. Nature, 2002, 415, 503-506.	27.8	177
3	Fractional excitations in the square-lattice quantum antiferromagnet. Nature Physics, 2015, 11, 62-68.	16.7	162
4	Coherent states of alternating current. Physical Review B, 1997, 56, 6839-6850.	3.2	156
5	Universal many-body response of heavy impurities coupled to a Fermi sea: a review of recent progress. Reports on Progress in Physics, 2018, 81, 024401.	20.1	135
6	Staggered-Vorticity Correlations in a Lightly Doped t - J Model: A Variational Approach. Physical Review Letters, 2000, 84, 3958-3961.	7.8	114
7	Landau-Zener interferometry for qubits. European Physical Journal B, 2003, 36, 263-269.	1.5	73
8	Zero-temperature properties of the quantum dimer model on the triangular lattice. Physical Review B, 2005, 71, .	3.2	68
9	Minigap in superconductor-ferromagnet junctions with inhomogeneous magnetization. Physical Review B, 2006, 73, .	3.2	53
10	The supersymmetric technique for random-matrix ensembles with zero eigenvalues. Journal of Mathematical Physics, 2002, 43, 126-153.	1.1	48
11	Allowed Charge Transfers between Coherent Conductors Driven by a Time-Dependent Scatterer. Physical Review Letters, 2008, 100, 086602.	7.8	46
12	Characterizing correlations with full counting statistics: Classical Ising and quantum $\langle X \rangle \langle Y \rangle$ spin chains. Physical Review E, 2013, 87, 022114.	2.1	43
13	Josephson current in a superconductor-ferromagnet junction with two noncollinear magnetic domains. Physical Review B, 2007, 75, .	3.2	42
14	Antiferromagnetism and phase separation in the t - J model at low doping: A variational study. Physical Review B, 2004, 70, .	3.2	41
15	Factorization of quantum charge transport for noninteracting fermions. Physical Review B, 2009, 79, .	3.2	38
16	Vortexlike elementary excitations in the Rokhsar-Kivelson dimer model on the triangular lattice. Physical Review B, 2004, 70, .	3.2	36
17	Quantum fluctuations of one-dimensional free fermions and Fisher's Hartwig formula for Toeplitz determinants. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 485001.	2.1	35
18	Josephson current in a superconductor-ferromagnet-superconductor junction with in-plane ferromagnetic domains. Physical Review B, 2007, 76, .	3.2	33

#	ARTICLE	IF	CITATIONS
19	Dynamics of the quantum dimer model on the triangular lattice: Soft modes and local resonating valence-bond correlations. Physical Review B, 2006, 74, .	3.2	30
20	Free fermions on a line: Asymptotics of the entanglement entropy and entanglement spectrum from full counting statistics. Europhysics Letters, 2012, 100, 60009.	2.0	28
21	Projected wave functions for fractionalized phases of quantum spin systems. Physical Review B, 2002, 66, .	3.2	27
22	Variational Monte Carlo study of the current carried by a quasiparticle. Physical Review B, 2006, 73, .	3.2	26
23	Dimer phases in quantum antiferromagnets with orbital degeneracy. Physical Review B, 2007, 76, .	3.2	26
24	Staggered-flux normal state in the weakly doped t-J model. Physical Review B, 2003, 68, .	3.2	24
25	Phase transitions in full counting statistics for periodic pumping. Europhysics Letters, 2010, 92, 37008.	2.0	24
26	Interference effects in isolated Josephson junction arrays with geometric symmetries. Physical Review B, 2001, 65, .	3.2	22
27	Minigap in a long disordered SNS junction: Analytical results. Physical Review B, 2002, 66, .	3.2	20
28	Crystallization of the resonating valence bond liquid as vortex condensation. Physical Review B, 2007, 76, .	3.2	20
29	Two-level Hamiltonian of a superconducting quantum point contact. Physical Review B, 1999, 59, 8444-8446.	3.2	19
30	Counting free fermions on a line: a Fisher-Hartwig asymptotic expansion for the Toeplitz determinant in the double-scaling limit. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 085003.	2.1	19
31	Quasiparticle spectral weights of Gutzwiller-projected high-T _c superconductors. Physical Review B, 2007, 75, .	3.2	15
32	Effective spin-flip scattering in diffusive superconducting proximity systems with magnetic disorder. Physical Review B, 2009, 80, .	3.2	15
33	Hybridization of wave functions in one-dimensional localization. Physical Review B, 2012, 85, .	3.2	15
34	KNIZHNIK-ZAMOLODCHIKOV-BERNARD EQUATIONS ON RIEMANN SURFACES. International Journal of Modern Physics A, 1995, 10, 2507-2536.	1.5	12
35	Phonon relaxation of subgap levels in superconducting quantum point contacts. JETP Letters, 1998, 68, 890-894.	1.4	12
36	Minigap in a superconductor-normal metal junction with paramagnetic impurities. Physical Review B, 2005, 72, .	3.2	12

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37	Photon-number measurements with cold atoms. <i>Physical Review A</i> , 1993, 47, 566-570.	2.5	11
38	Staggered-spin contribution to nuclear spin-lattice relaxation in two-leg antiferromagnetic spin-1 ladders. <i>Physical Review B</i> , 1999, 59, 4803-4806.	3.2	11
39	Fisher's Hartwig expansion for Toeplitz determinants and the spectrum of a single-particle reduced density matrix for one-dimensional free fermions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 375005.	2.1	10
40	Atomtronics with a spin: Statistics of spin transport and nonequilibrium orthogonality catastrophe in cold quantum gases. <i>Physical Review B</i> , 2019, 99, .	3.2	10
41	Bipolaronic charge excitations in two-leg ladders. <i>Physical Review B</i> , 1998, 57, 2118-2126.	3.2	9
42	Statistics of quantum transfer of noninteracting fermions in multiterminal junctions. <i>Physical Review B</i> , 2009, 80, .	3.2	7
43	Single hole and vortex excitations in the doped Rokhsar-Kivelson quantum dimer model on the triangular lattice. <i>Physical Review B</i> , 2007, 76, .	3.2	6
44	Correlations of the local density of states in quasi-one-dimensional wires. <i>Physical Review B</i> , 2009, 79, .	3.2	6
45	Quantum mechanics with a time-dependent random unitary Hamiltonian: A perturbative study of the non-linear Keldysh sigma-model. <i>Nuclear Physics B</i> , 2006, 737, 304-336.	2.5	5
46	Resonating-valence-bond structure of Gutzwiller-projected superconducting wave functions. <i>Physical Review B</i> , 2006, 74, .	3.2	5
47	Magnetic interference patterns in long disordered Josephson junctions. <i>Physical Review B</i> , 2013, 87, .	3.2	5
48	Dyson's Maleev representation of nonlinear sigma models. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 215003.	2.1	4
49	Complexity of full counting statistics of free quantum particles in product states. <i>Physical Review A</i> , 2020, 101, .	2.5	4
50	SU(2) approach to the pseudogap phase of high-temperature superconductors: Electronic spectral functions. <i>Physical Review B</i> , 2009, 79, .	3.2	3
51	Superconducting proximity effect in quantum wires without time-reversal symmetry. <i>Physical Review B</i> , 2013, 87, .	3.2	3
52	Fermionic full counting statistics with smooth boundaries: From discrete particles to bosonization. <i>Europhysics Letters</i> , 2016, 113, 17009.	2.0	3
53	Vibron excitations in near-critical quantum dimer models. <i>Europhysics Letters</i> , 2011, 94, 57003.	2.0	2
54	Computational complexity of exterior products and multiparticle amplitudes of noninteracting fermions in entangled states. <i>Physical Review A</i> , 2017, 96, .	2.5	2

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55	Continuous interpolation between the fully frustrated Ising and quantum dimer models. Physical Review B, 2011, 83, .	3.2	1
56	Anderson localization of a Majorana fermion. Europhysics Letters, 2014, 106, 37006.	2.0	1
57	Coherent spectral weights of Gutzwiller-projected superconductors. AIP Conference Proceedings, 2007, , .	0.4	0
58	Resonating-valence-bond physics and topological order in two dimensions: from dimer models to high-temperature superconductivity. , 2009, , .		0
59	Fisherâ€Hartwig expansion for the transverse correlation function in the XX spin-1/2 chain. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 015001.	2.1	0