

# Dmitri A Ivanov

## List of Publications by Year in descending order

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59  
papers

3,303  
citations

257101

24  
h-index

149479

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.	2.9	1,529
2	Topologically protected quantum bits using Josephson junction arrays. Nature, 2002, 415, 503-506.	13.7	177
3	Fractional excitations in the square-lattice quantum antiferromagnet. Nature Physics, 2015, 11, 62-68.	6.5	162
4	Coherent states of alternating current. Physical Review B, 1997, 56, 6839-6850.	1.1	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.	8.1	135
6	Staggered-Vorticity Correlations in a Lightly Doped $t$ - $J$ Model: A Variational Approach. Physical Review Letters, 2000, 84, 3958-3961.	2.9	114
7	Landau-Zener interferometry for qubits. European Physical Journal B, 2003, 36, 263-269.	0.6	73
8	Zero-temperature properties of the quantum dimer model on the triangular lattice. Physical Review B, 2005, 71, .	1.1	68
9	Minigap in superconductor-ferromagnet junctions with inhomogeneous magnetization. Physical Review B, 2006, 73, .	1.1	53
10	The supersymmetric technique for random-matrix ensembles with zero eigenvalues. Journal of Mathematical Physics, 2002, 43, 126-153.	0.5	48
11	Allowed Charge Transfers between Coherent Conductors Driven by a Time-Dependent Scatterer. Physical Review Letters, 2008, 100, 086602.	2.9	46
12	Characterizing correlations with full counting statistics: Classical Ising and quantum $X$ $Y$ spin chains. Physical Review E, 2013, 87, 022114.	0.8	43
13	Josephson current in a superconductor-ferromagnet junction with two noncollinear magnetic domains. Physical Review B, 2007, 75, .	1.1	42
14	Antiferromagnetism and phase separation in the $t$ - $J$ model at low doping: A variational study. Physical Review B, 2004, 70, .	1.1	41
15	Factorization of quantum charge transport for noninteracting fermions. Physical Review B, 2009, 79, .	1.1	38
16	Vortexlike elementary excitations in the Rokhsar-Kivelson dimer model on the triangular lattice. Physical Review B, 2004, 70, .	1.1	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.	0.7	35
18	Josephson current in a superconductor-ferromagnet-superconductor junction with in-plane ferromagnetic domains. Physical Review B, 2007, 76, .	1.1	33

#	ARTICLE	IF	CITATIONS
19	Dynamics of the quantum dimer model on the triangular lattice: Soft modes and local resonating valence-bond correlations. <i>Physical Review B</i> , 2006, 74, .	1.1	30
20	Free fermions on a line: Asymptotics of the entanglement entropy and entanglement spectrum from full counting statistics. <i>Europhysics Letters</i> , 2012, 100, 60009.	0.7	28
21	Projected wave functions for fractionalized phases of quantum spin systems. <i>Physical Review B</i> , 2002, 66, .	1.1	27
22	Variational Monte Carlo study of the current carried by a quasiparticle. <i>Physical Review B</i> , 2006, 73, .	1.1	26
23	Dimer phases in quantum antiferromagnets with orbital degeneracy. <i>Physical Review B</i> , 2007, 76, .	1.1	26
24	Staggered-flux normal state in the weakly doped $t$ - $J$ model. <i>Physical Review B</i> , 2003, 68, .	1.1	24
25	Phase transitions in full counting statistics for periodic pumping. <i>Europhysics Letters</i> , 2010, 92, 37008.	0.7	24
26	Interference effects in isolated Josephson junction arrays with geometric symmetries. <i>Physical Review B</i> , 2001, 65, .	1.1	22
27	Minigap in a long disordered SNS junction: Analytical results. <i>Physical Review B</i> , 2002, 66, .	1.1	20
28	Crystallization of the resonating valence bond liquid as vortex condensation. <i>Physical Review B</i> , 2007, 76, .	1.1	20
29	Two-level Hamiltonian of a superconducting quantum point contact. <i>Physical Review B</i> , 1999, 59, 8444-8446.	1.1	19
30	Counting free fermions on a line: a Fisher-Hartwig asymptotic expansion for the Toeplitz determinant in the double-scaling limit. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 085003.	0.7	19
31	Quasiparticle spectral weights of Gutzwiller-projected high- $T_c$ superconductors. <i>Physical Review B</i> , 2007, 75, .	1.1	15
32	Effective spin-flip scattering in diffusive superconducting proximity systems with magnetic disorder. <i>Physical Review B</i> , 2009, 80, .	1.1	15
33	Hybridization of wave functions in one-dimensional localization. <i>Physical Review B</i> , 2012, 85, .	1.1	15
34	KNIZHNIK-ZAMOLODCHIKOV-BERNARD EQUATIONS ON RIEMANN SURFACES. <i>International Journal of Modern Physics A</i> , 1995, 10, 2507-2536.	0.5	12
35	Phonon relaxation of subgap levels in superconducting quantum point contacts. <i>JETP Letters</i> , 1998, 68, 890-894.	0.4	12
36	Minigap in a superconductor-normal metal junction with paramagnetic impurities. <i>Physical Review B</i> , 2005, 72, .	1.1	12

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37	Photon-number measurements with cold atoms. <i>Physical Review A</i> , 1993, 47, 566-570.	1.0	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.	1.1	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.	0.7	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, .	1.1	10
41	Bipolaronic charge excitations in two-leg ladders. <i>Physical Review B</i> , 1998, 57, 2118-2126.	1.1	9
42	Statistics of quantum transfer of noninteracting fermions in multiterminal junctions. <i>Physical Review B</i> , 2009, 80, .	1.1	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, .	1.1	6
44	Correlations of the local density of states in quasi-one-dimensional wires. <i>Physical Review B</i> , 2009, 79, .	1.1	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.	0.9	5
46	Resonating-valence-bond structure of Gutzwiller-projected superconducting wave functions. <i>Physical Review B</i> , 2006, 74, .	1.1	5
47	Magnetic interference patterns in long disordered Josephson junctions. <i>Physical Review B</i> , 2013, 87, .	1.1	5
48	Dyson's Maleev representation of nonlinear sigma models. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 215003.	0.7	4
49	Complexity of full counting statistics of free quantum particles in product states. <i>Physical Review A</i> , 2020, 101, .	1.0	4
50	SU(2) approach to the pseudogap phase of high-temperature superconductors: Electronic spectral functions. <i>Physical Review B</i> , 2009, 79, .	1.1	3
51	Superconducting proximity effect in quantum wires without time-reversal symmetry. <i>Physical Review B</i> , 2013, 87, .	1.1	3
52	Fermionic full counting statistics with smooth boundaries: From discrete particles to bosonization. <i>Europhysics Letters</i> , 2016, 113, 17009.	0.7	3
53	Vibron excitations in near-critical quantum dimer models. <i>Europhysics Letters</i> , 2011, 94, 57003.	0.7	2
54	Computational complexity of exterior products and multiparticle amplitudes of noninteracting fermions in entangled states. <i>Physical Review A</i> , 2017, 96, .	1.0	2

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55	Continuous interpolation between the fully frustrated Ising and quantum dimer models. Physical Review B, 2011, 83, .	1.1	1
56	Anderson localization of a Majorana fermion. Europhysics Letters, 2014, 106, 37006.	0.7	1
57	Coherent spectral weights of Gutzwiller-projected superconductors. AIP Conference Proceedings, 2007, , .	0.3	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.	0.7	0