Vladimir Gritsev

List of Publications by Year
in descending order

34	1,662	331670 21	395702 33
papers	citations	h-index	g-index

34	34	34	1282
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Breakdown of the adiabatic limit in low-dimensional gapless systems. Nature Physics, 2008, 4, 477-481.	16.7	195
2	Relaxation of Antiferromagnetic Order in Spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:math>Chains Following a Quantum Quench. Physical Review Letters, 2009, 102, 130603.	7.8	170
3	Full quantum distribution of contrast in interference experiments between interacting one-dimensional Bose liquids. Nature Physics, 2006, 2, 705-709.	16.7	115
4	Quantum quenches in the anisotropic spin-rac{1}{2} Heisenberg chain: different approaches to many-body dynamics far from equilibrium. New Journal of Physics, 2010, 12, 055017.	2.9	109
5	Quantum Spin Dynamics of Mode-Squeezed Luttinger Liquids in Two-Component Atomic Gases. Physical Review Letters, 2008, 100, 140401.	7.8	108
6	Classifying and measuring geometry of a quantum ground state manifold. Physical Review B, 2013, 88, .	3.2	100
7	Linear response theory for a pair of coupled one-dimensional condensates of interacting atoms. Physical Review B, 2007, 75, .	3.2	92
8	Spectroscopy of Collective Excitations in Interacting Low-Dimensional Many-Body Systems Using Quench Dynamics. Physical Review Letters, 2007, 99, 200404.	7.8	74
9	Scaling approach to quantum non-equilibrium dynamics of many-body systems. New Journal of Physics, 2010, 12, 113005.	2.9	73
10	Gaudin models solver based on the correspondence between Bethe ansatz and ordinary differential equations. Physical Review B, 2011, 83, .	3.2	73
11	Exact methods in the analysis of the non-equilibrium dynamics of integrable models: application to the study of correlation functions for non-equilibrium 1D Bose gas. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P05012.	2.3	60
12	Quantum many-body dynamics of coupled double-well superlattices. Physical Review A, 2008, 78, .	2.5	56
13	Ramsey Interference in One-Dimensional Systems: The Full Distribution Function of Fringe Contrast as a Probe of Many-Body Dynamics. Physical Review Letters, 2010, 104, 255302.	7.8	56
14	Bethe ansatz and ordinary differential equation correspondence for degenerate Gaudin models. Physical Review B, 2012, 85, .	3.2	49
15	Quantum transport of strongly interacting photons in a one-dimensional nonlinear waveguide. Physical Review A, 2012, 85, .	2.5	43
16	Random Matrix Ensemble for the Level Statistics of Many-Body Localization. Physical Review Letters, 2019, 122, 180601.	7.8	40
17	Exceptional and regular spectra of a generalized Rabi model. Physical Review A, 2014, 90, .	2.5	32
18	Nonergodicity in the Anisotropic Dicke Model. Physical Review Letters, 2017, 118, 080601.	7.8	32

#	Article	IF	Citations
19	Supersymmetry in quantum optics and in spin-orbit coupled systems. Scientific Reports, 2015, 5, 13097.	3.3	29
20	Symmetry-protected coherent relaxation of open quantum systems. Physical Review A, 2018, 97, .	2.5	24
21	Mapping of Coulomb gases and sine-Gordon models to statistics of random surfaces. Physical Review A, 2008, 77, .	2.5	21
22	Dynamical symmetry approach to path integrals of quantum spin systems. Physical Review A, 2013, 88, .	2.5	21
23	Quantum theory of light scattering in a one-dimensional channel: Interaction effect on photon statistics and entanglement entropy. Physical Review A, 2015, 91, .	2.5	21
24	Nonadiabatic effects in periodically driven dissipative open quantum systems. Physical Review A, 2018, 97, .	2.5	13
25	Non-equilibrium dynamics of Gaudin models. Europhysics Letters, 2013, 104, 10004.	2.0	12
26	Exact out-of-equilibrium central spin dynamics from integrability. New Journal of Physics, 2014, 16, 043024.	2.9	11
27	Quasiconserved quantities in the perturbed spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml XXX model. Physical Review B, 2022, 105, .	3.2	10
28	Gumbel statistics for entanglement spectra of many-body localized eigenstates. Physical Review B, 2019, 100, .	3.2	7
29	Integrable spin chains with random interactions. Physical Review B, 2018, 98, .	3.2	5
30	Integrability and duality in spin chains. Physical Review B, 2019, 99, .	3.2	5
31	Dynamically generated reduction of the mean photon number in the Dicke model. Physical Review A, 2013, 88, .	2.5	2
32	Control over few-photon pulses by a time-periodic modulation of the photon emitter coupling. Physical Review A, 2017, 95, .	2.5	2
33	Sensitivity of the spectral form factor to short-range level statistics. Physical Review E, 2020, 102, 042216.	2.1	2
34	Photonic Kondo-like model. Physical Review A, 2017, 95, .	2.5	0