

Bogdan Damski

List of Publications by Year in descending order

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45
papers

3,858
citations

257450

24
h-index

265206

42
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45
all docs

45
docs citations

45
times ranked

2430
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of gauge fixing on angular momentum operators of the covariantly quantized electromagnetic field. <i>Physical Review D</i> , 2021, 104, .	4.7	2
2	Evidence from on-site atom number fluctuations for a quantum Berezinskii-Kosterlitz-Thouless transition in the one-dimensional Bose-Hubbard model. <i>Physical Review B</i> , 2021, 104, .	3.2	0
3	Locating quantum critical points with Kibble-Zurek quenches. <i>Physical Review B</i> , 2020, 102, .	3.2	11
4	Angular momentum of the electron: One-loop studies. <i>Nuclear Physics B</i> , 2020, 955, 115042.	2.5	1
5	Dynamics of longitudinal magnetization in transverse-field quantum Ising model: from symmetry-breaking gap to Kibble-Zurek mechanism. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 013108.	2.3	13
6	Critical points of the three-dimensional Bose-Hubbard model from on-site atom number fluctuations. <i>Scientific Reports</i> , 2019, 9, 8687.	3.3	8
7	Electromagnetic angular momentum of the electron: One-loop studies. <i>Nuclear Physics B</i> , 2019, 949, 114828.	2.5	3
8	One-half of the Kibble-Zurek quench followed by free evolution. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 073105.	2.3	14
9	Spatial Kibble-Zurek mechanism through susceptibilities: the inhomogeneous quantum Ising model case. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 103105.	2.3	6
10	Locating the quantum critical point of the Bose-Hubbard model through singularities of simple observables. <i>Scientific Reports</i> , 2016, 6, 38340.	3.3	9
11	Properties of the one-dimensional Bose-Hubbard model from a high-order perturbative expansion. <i>New Journal of Physics</i> , 2015, 17, 125010.	2.9	4
12	The quantum Ising model: finite sums and hyperbolic functions. <i>Scientific Reports</i> , 2015, 5, 15779.	3.3	5
13	Fidelity Approach to Quantum Phase Transitions in Quantum Ising Model. , 2015, , .		4
14	Numerical studies of ground-state fidelity of the Bose-Hubbard model. <i>Physical Review A</i> , 2014, 89, .	2.5	21
15	Exact results for fidelity susceptibility of the quantum Ising model: the interplay between parity, system size, and magnetic field. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 025303.	2.1	53
16	Counterdiabatic driving of the quantum Ising model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P12019.	2.3	32
17	Fidelity susceptibility of the quantum Ising model in a transverse field: The exact solution. <i>Physical Review E</i> , 2013, 87, 052131.	2.1	43
18	Title is missing!. <i>Acta Physica Polonica B</i> , 2012, 43, 381.	0.8	0

#	ARTICLE	IF	CITATIONS
19	A quantum phase transition in a quantum external field: Superposing two magnetic phases. Scientific Reports, 2012, 2, 655.	3.3	11
20	Critical dynamics of decoherence. Physical Review A, 2011, 83, .	2.5	79
21	Scaling of ground-state fidelity in the thermodynamic limit: XY model and beyond. Physical Review A, 2011, 84, .	2.5	41
22	Quantum Fidelity in the Thermodynamic Limit. Physical Review Letters, 2011, 106, 055701.	7.8	97
23	Dynamics of a quantum quench in an ultracold atomic BCS superfluid. Physical Review A, 2010, 82, .	2.5	4
24	Soliton Creation During a Bose-Einstein Condensation. Physical Review Letters, 2010, 104, 160404.	7.8	122
25	Quantum phase transition in space in a ferromagnetic spin-1 Bose-Einstein condensate. New Journal of Physics, 2009, 11, 063014.	2.9	30
26	How to fix a broken symmetry: quantum dynamics of symmetry restoration in a ferromagnetic Bose-Einstein condensate. New Journal of Physics, 2008, 10, 045023.	2.9	20
27	Mott-Insulator States of Ultracold Atoms in Optical Resonators. Physical Review Letters, 2008, 100, 050401.	7.8	136
28	Dynamics of a Quantum Phase Transition in a Ferromagnetic Bose-Einstein Condensate. Physical Review Letters, 2007, 99, 130402.	7.8	98
29	Ultracold atomic gases in optical lattices: mimicking condensed matter physics and beyond. Advances in Physics, 2007, 56, 243-379.	14.4	1,712
30	Dynamics of the Bose-Hubbard model: Transition from a Mott insulator to a superfluid. Physical Review A, 2007, 75, .	2.5	99
31	Adiabatic-impulse approximation for avoided level crossings: From phase-transition dynamics to Landau-Zener evolutions and back again. Physical Review A, 2006, 73, .	2.5	134
32	Shock waves in a one-dimensional Bose gas: From a Bose-Einstein condensate to a Tonks gas. Physical Review A, 2006, 73, .	2.5	33
33	Mott-insulator phase of the one-dimensional Bose-Hubbard model: A high-order perturbative study. Physical Review A, 2006, 74, .	2.5	32
34	Quantum gases in trimerized kagomé lattices. Physical Review A, 2005, 72, .	2.5	55
35	Atomic Fermi Gas in the Trimerized Kagomé Lattice at $2/3$ Filling. Physical Review Letters, 2005, 95, 060403.	7.8	27
36	The Simplest Quantum Model Supporting the Kibble-Zurek Mechanism of Topological Defect Production: Landau-Zener Transitions from a New Perspective. Physical Review Letters, 2005, 95, 035701.	7.8	280

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37	Shock waves in ultracold Fermi (Tonks) gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, L85-L91.	1.5	26
38	Formation of shock waves in a Bose-Einstein condensate. Physical Review A, 2004, 69, .	2.5	85
39	Mean-field theory of Bose-Fermi mixtures in optical lattices. Optics Communications, 2004, 243, 23-31.	2.1	25
40	Changes of the topological charge of vortices. Journal of Physics A, 2003, 36, 2339-2345.	1.6	15
41	Atomic Bose and Anderson Glasses in Optical Lattices. Physical Review Letters, 2003, 91, 080403.	7.8	280
42	Creation of a Dipolar Superfluid in Optical Lattices. Physical Review Letters, 2003, 90, 110401.	7.8	147
43	Stirring a Bose-Einstein condensate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 4051-4057.	1.5	8
44	Collective excitation of trapped degenerate Fermi gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, L153-L159.	1.5	9
45	Simple method for excitation of a Bose-Einstein condensate. Physical Review A, 2001, 65, .	2.5	24