

Tomasz A Zaleski

List of Publications by Year in descending order

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41
papers

198
citations

1039880

9
h-index

1058333

14
g-index

41
all docs

41
docs citations

41
times ranked

149
citing authors

#	ARTICLE	IF	CITATIONS
1	Atom-atom correlations in time-of-flight imaging of ultracold bosons in optical lattices. Physical Review A, 2011, 84, .	1.0	21
2	Dependence of the superconducting critical temperature on the number of layers in a homologous series of high-Tccuprates. Physical Review B, 2005, 71, .	1.1	19
3		1.1	16
4	Time-of-flight patterns of ultracold bosons in optical lattices in various Abelian artificial magnetic field gauges. Physical Review A, 2013, 87, .	1.0	16
5	Phase diagrams in the SO(5) quantum rotor theory of high-Tc superconductivity. Physical Review B, 2000, 62, 9059-9076.	1.1	15
6	NÃel order in the Hubbard model within a spin-charge rotating reference frame approach: Crossover from weak to strong coupling. Physical Review B, 2008, 77, .	1.1	14
7	Synthetic magnetic field effects on neutral bosonic condensates in quasi-three-dimensional anisotropic layered structures. Physical Review A, 2011, 83, .	1.0	14
8	Superfluid-to-Mott transition in optical lattices with restricted geometry. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 425303.	0.7	11
9	Momentum-resolved spectral function of ultracold bosons in two-dimensional optical lattices. Physical Review A, 2012, 85, .	1.0	11
10	Possible origin of $60\pi^2$ plateau in the YBa ₂ Cu ₃ O _{6+y} phase diagram. Physical Review B, 2006, 74, .	1.1	8
11	Effect of next-nearest-neighbour hopping on Bose-Einstein condensation in optical lattices. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 085303.	0.6	8
12	Scaling near the Quantum-Critical Point in the SO(5) Theory of the High-Tc Superconductivity. Physical Review Letters, 2001, 87, 097002.	2.9	7
13	Optical weight transfer in excitation spectra of ultra-cold bosons in two- and three-dimensional optical lattices. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 145303.	0.6	5
14	Temperature-dependent excitation spectra of ultra-cold bosons in optical lattices. Physica B: Condensed Matter, 2014, 433, 37-42.	1.3	5
15	Coherence of interacting bosons in optical lattices in synthetic magnetic fields with a large number of subbands. Physical Review A, 2016, 93, .	1.0	4
16	Multicriticality and interaction-induced first-order phase transitions in mixtures of ultracold bosons in an optical lattice. Physical Review A, 2016, 94, .	1.0	4
17	Magnetic correlation functions in SO(5) theory of high-Tc superconductivity. Physical Review B, 2001, 64, .	1.1	3
18	Hall effect for interacting bosons in a lattice. Physical Review B, 2018, 97, .	1.1	3

#	ARTICLE	IF	CITATIONS
19	Scaling of the density profiles of cold atoms near the quantum critical point in two- and three-dimensional optical lattices. <i>Physical Review A</i> , 2012, 85, .	1.0	2
20	Intraband and interband conductivity in systems of strongly interacting bosons. <i>Physical Review B</i> , 2017, 96, .	1.1	2
21	Neutral Bosonic Condensates in Layered 2D Structures under Artificial Magnetic Field. <i>Acta Physica Polonica A</i> , 2012, 121, 1312-1314.	0.2	2
22	Quantum criticality in the SO(5) theory of antiferromagnetism and superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 387, 65-68.	0.6	1
23	Néel order and the destruction of localized magnetic moments in the crossover from the Mott-Heisenberg to the Slater limit. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 542-546.	0.7	1
24	Finite temperature superfluid transition of strongly correlated lattice bosons in various geometries. <i>Physica B: Condensed Matter</i> , 2015, 456, 244-249.	1.3	1
25	Berezinskii-Kosterlitz-Thouless transition of ultracold atoms in optical lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 085006.	0.6	1
26	Coherence and spectral weight transfer in the dynamic structure factor of cold lattice bosons. <i>Physica B: Condensed Matter</i> , 2017, 504, 74-79.	1.3	1
27	Optical Conductivity of Ultra-Cold Bosons in Optical Lattices. <i>Acta Physica Polonica A</i> , 2016, 130, 633-636.	0.2	1
28	Superconducting Critical Temperature of Homologous Series of High-Tc Cuprates as a Function of Number of Layers. <i>Acta Physica Polonica A</i> , 2004, 106, 561-567.	0.2	1
29	Antiferromagnetic Order in the Hubbard Model: Spin-Charge Rotating Reference Frame Approach. <i>Acta Physica Polonica A</i> , 2008, 114, 247-251.	0.2	1
30	SO(5) superconductor in a Zeeman magnetic field: Phase diagram and thermodynamic properties. <i>Physical Review B</i> , 2002, 66, .	1.1	0
31	SO(5) superconductor in a Zeeman magnetic field. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 387, 93-96.	0.6	0
32	Spectral functions in the two-dimensional Hubbard model within a spin-charge rotating frame approach. <i>European Physical Journal B</i> , 2010, 76, 405-419.	0.6	0
33	Quasi-particle peak due to magnetic order in strongly correlated electron systems. <i>Annalen Der Physik</i> , 2010, 522, 584-593.	0.9	0
34	Unconventional quantum critical points in systems of strongly interacting bosons. <i>Physica B: Condensed Matter</i> , 2014, 449, 204-208.	1.3	0
35	Momentum-resolved conductivity of strongly interacting bosons in an optical lattice. <i>Physical Review B</i> , 2021, 104, .	1.1	0
36	The Existence of the 60 K Plateau in the $\text{YBaCu}_3\text{O}_{6+y}$ Phase Diagram: the Role of Oxygen Ordering and Charge Imbalance. <i>Acta Physica Polonica A</i> , 2007, 111, 705-711.	0.2	0

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37	Electron Spectral Functions in the Presence of the Antiferromagnetic Order in the Two-Dimensional Hubbard Model. Acta Physica Polonica A, 2010, 118, 267-272.	0.2	0
38	Ultra-Cold Bosons in Optical Lattice: Time-of-Flight Imaging of Atom-Atom Correlations. Acta Physica Polonica A, 2012, 121, 796-800.	0.2	0
39	Phase Diagram of Mixtures of Ultracold Bosons in Optical Lattice. Acta Physica Polonica A, 2016, 130, 629-632.	0.2	0
40	Dynamic Structure Factor of Ultracold Bosons in Optical Lattice. Acta Physica Polonica A, 2016, 130, 564-568.	0.2	0
41	Role of Bandwidths and Energy Gap in Formation of Ground State of Ultra-Cold Bosons in Artificial Magnetic Fields. Acta Physica Polonica A, 2016, 130, 637-640.	0.2	0