

# Tomasz A Zaleski

## List of Publications by Year in descending order

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41  
papers

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citations

1039880

9  
h-index

1058333

14  
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docs citations

41  
times ranked

149  
citing authors

#	ARTICLE	IF	CITATIONS
1	Momentum-resolved conductivity of strongly interacting bosons in an optical lattice. <i>Physical Review B</i> , 2021, 104, .	1.1	0
2	Hall effect for interacting bosons in a lattice. <i>Physical Review B</i> , 2018, 97, .	1.1	3
3	Berezinskiiâ€“Kosterlitzâ€“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
4	Intraband and interband conductivity in systems of strongly interacting bosons. <i>Physical Review B</i> , 2017, 96, .	1.1	2
5	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
6	Coherence of interacting bosons in optical lattices in synthetic magnetic fields with a large number of subbands. <i>Physical Review A</i> , 2016, 93, .	1.0	4
7	Multicriticality and interaction-induced first-order phase transitions in mixtures of ultracold bosons in an optical lattice. <i>Physical Review A</i> , 2016, 94, .	1.0	4
8	Optical Conductivity of Ultra-Cold Bosons in Optical Lattices. <i>Acta Physica Polonica A</i> , 2016, 130, 633-636.	0.2	1
9	Phase Diagram of Mixtures of Ultracold Bosons in Optical Lattice. <i>Acta Physica Polonica A</i> , 2016, 130, 629-632.	0.2	0
10	Dynamic Structure Factor of Ultracold Bosons in Optical Lattice. <i>Acta Physica Polonica A</i> , 2016, 130, 564-568.	0.2	0
11	Role of Bandwidths and Energy Gap in Formation of Ground State of Ultra-Cold Bosons in Artificial Magnetic Fields. <i>Acta Physica Polonica A</i> , 2016, 130, 637-640.	0.2	0
12	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
13	Temperature-dependent excitation spectra of ultra-cold bosons in optical lattices. <i>Physica B: Condensed Matter</i> , 2014, 433, 37-42.	1.3	5
14	Unconventional quantum critical points in systems of strongly interacting bosons. <i>Physica B: Condensed Matter</i> , 2014, 449, 204-208.	1.3	0
15	Time-of-flight patterns of ultracold bosons in optical lattices in various Abelian artificial magnetic field gauges. <i>Physical Review A</i> , 2013, 87, .	1.0	16
16	NÃ©el order and the destruction of localized magnetic moments in the crossover from the Mottâ€“Heisenberg to the Slater limit. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 542-546.	0.7	1
17	Optical weight transfer in excitation spectra of ultra-cold bosons in two- and three-dimensional optical lattices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 145303.	0.6	5
18	Tuning superconductivity in $\text{Eu}(\text{FeAsO})_2$ . <i>Physical Review Letters</i> , 2012, 108, 077201.	1.1	16

#	ARTICLE	IF	CITATIONS
19	Momentum-resolved spectral function of ultracold bosons in two-dimensional optical lattices. <i>Physical Review A</i> , 2012, 85, .	1.0	11
20	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
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	Ultra-Cold Bosons in Optical Lattice: Time-of-Flight Imaging of Atom-Atom Correlations. <i>Acta Physica Polonica A</i> , 2012, 121, 796-800.	0.2	0
23	Atom-atom correlations in time-of-flight imaging of ultracold bosons in optical lattices. <i>Physical Review A</i> , 2011, 84, .	1.0	21
24	Synthetic magnetic field effects on neutral bosonic condensates in quasi-three-dimensional anisotropic layered structures. <i>Physical Review A</i> , 2011, 83, .	1.0	14
25	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
26	Quasi-particle peak due to magnetic order in strongly correlated electron systems. <i>Annalen Der Physik</i> , 2010, 522, 584-593.	0.9	0
27	Effect of next-nearest-neighbour hopping on Bose-Einstein condensation in optical lattices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 085303.	0.6	8
28	Superfluid-to-Mott transition in optical lattices with restricted geometry. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 425303.	0.7	11
29	Electron Spectral Functions in the Presence of the Antiferromagnetic Order in the Two-Dimensional Hubbard Model. <i>Acta Physica Polonica A</i> , 2010, 118, 267-272.	0.2	0
30	Néel order in the Hubbard model within a spin-charge rotating reference frame approach: Crossover from weak to strong coupling. <i>Physical Review B</i> , 2008, 77, .	1.1	14
31	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
32	The Existence of the 60 K Plateau in the $\text{YBa}_2\text{Cu}_3\text{O}_{6+y}$ Phase Diagram: the Role of Oxygen Ordering and Charge Imbalance. <i>Acta Physica Polonica A</i> , 2007, 111, 705-711.	0.2	0
33	Possible origin of 60 K plateau in the $\text{YBa}_2\text{Cu}_3\text{O}_{6+y}$ phase diagram. <i>Physical Review B</i> , 2006, 74, .	1.1	8
34	Dependence of the superconducting critical temperature on the number of layers in a homologous series of high-Tc cuprates. <i>Physical Review B</i> , 2005, 71, .	1.1	19
35	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
36	Quantum criticality in the $\text{SO}(5)$ theory of antiferromagnetism and superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 387, 65-68.	0.6	1

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37	SO(5) superconductor in a Zeeman magnetic field. Physica C: Superconductivity and Its Applications, 2003, 387, 93-96.	0.6	0
38	SO(5) superconductor in a Zeeman magnetic field: Phase diagram and thermodynamic properties. Physical Review B, 2002, 66, .	1.1	0
39	Magnetic correlation functions in SO(5) theory of high-Tc superconductivity. Physical Review B, 2001, 64, .	1.1	3
40	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
41	Phase diagrams in the SO(5) quantum rotor theory of high-Tc superconductivity. Physical Review B, 2000, 62, 9059-9076.	1.1	15