

Vasiliy Makhhalov

List of Publications by Year in descending order

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papers

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citations

1040056

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docs citations

17
times ranked

530
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing chiral edge dynamics and bulk topology of a synthetic Hall system. <i>Nature Physics</i> , 2020, 16, 1017-1021.	16.7	59
2	Probing Quantum Criticality and Symmetry Breaking at the Microscopic Level. <i>Physical Review Letters</i> , 2019, 123, 120601.	7.8	19
3	Enhanced Magnetic Sensitivity with Non-Gaussian Quantum Fluctuations. <i>Physical Review Letters</i> , 2019, 122, 173601.	7.8	27
4	Order in the Interference of a Long Chain of Bose Condensates with Unrestricted Phases. <i>Physical Review Letters</i> , 2019, 122, 090403.	7.8	3
5	Quantum-enhanced sensing using non-classical spin states of a highly magnetic atom. <i>Nature Communications</i> , 2018, 9, 4955.	12.8	48
6	Anisotropic light shift and magic polarization of the intercombination line of dysprosium atoms in a far-detuned dipole trap. <i>Physical Review A</i> , 2018, 98, .	2.5	11
7	Crossover from an atomic Fermi gas to a molecular Bose gas in a 2D system. <i>Quantum Electronics</i> , 2018, 48, 401B-404.	1.0	2
8	Spatial order in interference of a chain of Bose condensates with random phases. <i>Quantum Electronics</i> , 2017, 47, 803-805.	1.0	1
9	A vacuum gauge based on an ultracold gas. <i>Quantum Electronics</i> , 2017, 47, 431-437.	1.0	8
10	Primary vacuum gauge based on an ultracold gas in a shallow optical dipole trap. <i>Metrologia</i> , 2016, 53, 1287-1294.	1.2	29
11	Fermi liquid-to-Bose condensate crossover in a two-dimensional ultracold gas experiment. <i>Physics-Uspexhi</i> , 2016, 59, 174-183.	2.2	9
12	Pressure profiles of nonuniform two-dimensional atomic Fermi gases. <i>Physical Review A</i> , 2016, 93, .	2.5	14
13	Precision measurement of a trapping potential for an ultracold gas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 327-332.	2.1	6
14	Ground-State Pressure of Quasi-2D Fermi and Bose Gases. <i>Physical Review Letters</i> , 2014, 112, 045301.	7.8	116
15	Observation of a Two-Dimensional Fermi Gas of Atoms. <i>Physical Review Letters</i> , 2010, 105, 030404.	7.8	175
16	Observation of a degenerate Fermi gas confined by a standing electromagnetic wave. <i>JETP Letters</i> , 2010, 91, 369-372.	1.4	9
17	Visible radiation-induced connection of single-mode IR fibres in a photopolymerising composition. <i>Quantum Electronics</i> , 2008, 38, 1142-1146.	1.0	7