Vasiliy Makhalov

List of Publications by Year
in descending order

17	543	1040056 9	888059 17
papers	citations	h-index	g-index

17	17	17	530
all docs	docs citations	times ranked	citing authors

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