

Simon FÄjlling

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

4,631
citations

567144

15
h-index

839398

18
g-index

19
all docs

19
docs citations

19
times ranked

2948
citing authors

#	ARTICLE	IF	CITATIONS
1	Tonksâ€™Girardeau gas of ultracold atoms in an optical lattice. Nature, 2004, 429, 277-281.	13.7	1,385
2	A quantum gas microscope for detecting single atoms in a Hubbard-regime optical lattice. Nature, 2009, 462, 74-77.	13.7	1,161
3	Spatial quantum noise interferometry in expanding ultracold atom clouds. Nature, 2005, 434, 481-484.	13.7	470
4	Resonant control of spin dynamics in ultracold quantum gases by microwave dressing. Physical Review A, 2006, 73, .	1.0	200
5	State Preparation and Dynamics of Ultracold Atoms in Higher Lattice Orbitals. Physical Review Letters, 2007, 99, 200405.	2.9	180
6	Formation of Spatial Shell Structure in the Superfluid to Mott Insulator Transition. Physical Review Letters, 2006, 97, 060403.	2.9	179
7	Precision measurement of spin-dependent interaction strengths for spin-1 and spin-287Rb atoms. New Journal of Physics, 2006, 8, 152-152.	1.2	168
8	Phase Coherence of an Atomic Mott Insulator. Physical Review Letters, 2005, 95, 050404.	2.9	153
9	Coherent Collisional Spin Dynamics in Optical Lattices. Physical Review Letters, 2005, 95, 190405.	2.9	138
10	Direct Probing of the Mott Crossover in the $SU(N)$ Mott Insulator. Physical Review Letters, 2005, 95, 190405.	2.8	125
11	Interference pattern and visibility of a Mott insulator. Physical Review A, 2005, 72, .	1.0	123
12	Quantum Spin Dynamics of Mode-Squeezed Luttinger Liquids in Two-Component Atomic Gases. Physical Review Letters, 2008, 100, 140401.	2.9	108
13	Optical lattices. Nature, 2008, 453, 736-738.	13.7	104
14	Probing Number Squeezing of Ultracold Atoms across the Superfluid-Mott Insulator Transition. Physical Review Letters, 2006, 96, 090401.	2.9	94
15	Spectroscopy of an ultracold Rydberg gas and signatures of Rydbergâ€™Rydberg interactions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S321-S332.	0.6	27
16	Initial Studies of a New VLSI Field Programmable Transistor Array. Lecture Notes in Computer Science, 2001, , 62-73.	1.0	7
17	Towards a Silicon Primordial Soup: A Fast Approach to Hardware Evolution with a VLSI Transistor Array. Lecture Notes in Computer Science, 2000, , 123-132.	1.0	7
18	Quantum Noise Correlation Experiments with Ultracold Atoms. Cold Atoms, 2014, , 145-177.	0.3	2

#	ARTICLE	IF	CITATIONS
19	COHERENT SPIN OSCILLATIONS DRIVEN BY COLLISIONS IN AN OPTICAL LATTICE. , 2005, , .		0