Henning Moritz

List of Publications by Year
in descending order

33 papers	5,031 citations	279798 23 h-index	414414 32 g-index
33 all docs	33 docs citations	33 times ranked	2636 citing authors

#	Article	IF	Citations
1	Transition from a Strongly Interacting 1D Superfluid to a Mott Insulator. Physical Review Letters, 2004, 92, 130403.	7.8	898
2	A Mott insulator of fermionic atoms in an optical lattice. Nature, 2008, 455, 204-207.	27.8	830
3	Fermionic Atoms in a Three Dimensional Optical Lattice: Observing Fermi Surfaces, Dynamics, and Interactions. Physical Review Letters, 2005, 94, 080403.	7.8	564
4	Exciting Collective Oscillations in a Trapped 1D Gas. Physical Review Letters, 2003, 91, 250402.	7.8	445
5	Confinement Induced Molecules in a 1D Fermi Gas. Physical Review Letters, 2005, 94, 210401.	7.8	333
6	Bose-Fermi Mixtures in a Three-Dimensional Optical Lattice. Physical Review Letters, 2006, 96, 180402.	7.8	263
7	Molecules of Fermionic Atoms in an Optical Lattice. Physical Review Letters, 2006, 96, 030401.	7.8	231
8	Observation of Elastic Doublon Decay in the Fermi-Hubbard Model. Physical Review Letters, 2010, 104, 080401.	7.8	215
9	p-Wave Interactions in Low-Dimensional Fermionic Gases. Physical Review Letters, 2005, 95, 230401.	7.8	190
10	Quantitative Determination of Temperature in the Approach to Magnetic Order of Ultracold Fermions in an Optical Lattice. Physical Review Letters, 2010, 104, 180401.	7.8	136
11	Excitations of a Superfluid in a Three-Dimensional Optical Lattice. Physical Review Letters, 2004, 93, 240402.	7.8	111
12	Two-Dimensional Homogeneous Fermi Gases. Physical Review Letters, 2018, 120, 060402.	7.8	107
13	Interaction-Controlled Transport of an Ultracold Fermi Gas. Physical Review Letters, 2007, 99, 220601.	7.8	102
14	Lifetime of double occupancies in the Fermi-Hubbard model. Physical Review B, 2010, 82, .	3.2	95
15	Local Observation of Antibunching in a Trapped Fermi Gas. Physical Review Letters, 2010, 105, 040401.	7.8	84
16	High-resolution imaging of ultracold fermions in microscopically tailored optical potentials. New Journal of Physics, 2011, 13, 043007.	2.9	77
17	Critical Velocity in the BEC-BCS Crossover. Physical Review Letters, 2015, 114, 095301.	7.8	75
18	An ideal Josephson junction in an ultracold two-dimensional Fermi gas. Science, 2020, 369, 89-91.	12.6	44

#	Article	IF	Citations
19	Interferometric measurement of local spin fluctuations in a quantum gas. Nature Physics, 2012, 8, 454-458.	16.7	37
20	Probing superfluidity of Bose-Einstein condensates via laser stirring. Physical Review A, 2016, 93, .	2.5	34
21	Sound Propagation and Quantum-Limited Damping in a Two-Dimensional Fermi Gas. Physical Review Letters, 2020, 124, 240403.	7.8	33
22	Observation of superfluidity in a strongly correlated two-dimensional Fermi gas. Science, 2021, 372, 844-846.	12.6	29
23	Excitation Spectrum and Superfluid Gap of an Ultracold Fermi Gas. Physical Review Letters, 2022, 128, 100401.	7.8	26
24	Calibrating high intensity absorption imaging of ultracold atoms. Optics Express, 2017, 25, 8670.	3.4	23
25	Note: Suppression of kHz-frequency switching noise in digital micro-mirror devices. Review of Scientific Instruments, 2017, 88, 016103.	1.3	14
26	Strongly interacting atoms and molecules in a 3D optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S47-S56.	1.5	13
27	Detecting multiatomic composite states in optical lattices. Physical Review A, 2007, 75, .	2.5	9
28	Detecting Friedel oscillations in ultracold Fermi gases. European Physical Journal D, 2017, 71, 1.	1.3	6
29	A new phase for ytterbium atoms. Physics Magazine, 2009, 2, .	0.1	2
30	Atomic superfluids see the light. Nature Physics, 2010, 6, 10-11.	16.7	2
31	Single-atom counting in a two-color magneto-optical trap. Physical Review A, 2021, 103, .	2.5	2
32	Sudden and Slow Quenches into the Antiferromagnetic Phase of Ultracold Fermions. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 1143-1150.	1.5	1
33	SYNTHETIC QUANTUM MANY-BODY SYSTEMS. , 2010, , .		0