

# Erich J Mueller

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104  
papers

3,167  
citations

28  
h-index

53  
g-index

118  
ext. papers

3,451  
ext. citations

4.1  
avg, IF

5.8  
L-index

#	Paper	IF	Citations
104	Spin-imbalance in a one-dimensional Fermi gas. <i>Nature</i> , <b>2010</b> , 467, 567-9	50.4	399
103	Fragmentation of Bose-Einstein condensates. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	209
102	Artificial electromagnetism for neutral atoms: Escher staircase and Laughlin liquids. <i>Physical Review A</i> , <b>2004</b> , 70,	2.6	162
101	Two-component Bose-Einstein condensates with a large number of vortices. <i>Physical Review Letters</i> , <b>2002</b> , 88, 180403	7.4	154
100	High temperature expansion applied to fermions near Feshbach resonance. <i>Physical Review Letters</i> , <b>2004</b> , 92, 160404	7.4	125
99	Quasi-one-dimensional polarized fermi superfluids. <i>Physical Review Letters</i> , <b>2007</b> , 99, 250403	7.4	116
98	Profiles of near-resonant population-imbalanced trapped Fermi gases. <i>Physical Review A</i> , <b>2006</b> , 73,	2.6	101
97	Superfluidity and mean-field energy loops: Hysteretic behavior in Bose-Einstein condensates. <i>Physical Review A</i> , <b>2002</b> , 66,	2.6	98
96	Quantum Monte Carlo study of one-dimensional trapped fermions with attractive contact interactions. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	96
95	Exact parent Hamiltonian for the quantum Hall states in a lattice. <i>Physical Review Letters</i> , <b>2010</b> , 105, 215303	7.4	94
94	Detecting antiferromagnetism of atoms in an optical lattice via optical Bragg scattering. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	81
93	Surface tension in unitary fermi gases with population imbalance. <i>Physical Review Letters</i> , <b>2006</b> , 97, 070402	7.4	76
92	Spin textures in slowly rotating Bose-Einstein condensates. <i>Physical Review A</i> , <b>2004</b> , 69,	2.6	68
91	Optical-lattice Hamiltonians for relativistic quantum electrodynamics. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	58
90	Floquet edge states with ultracold atoms. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	54
89	Stability of a Floquet Bose-Einstein condensate in a one-dimensional optical lattice. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	51
88	Majorana fermions in one-dimensional spin-orbit-coupled Fermi gases. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	48

87	Theory of bosons in two-leg ladders with large magnetic fields. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	47
86	Local versus global equilibration near the bosonic Mott-insulator-superfluid transition. <i>Physical Review Letters</i> , <b>2011</b> , 106, 125301	7.4	45
85	Finite-temperature collapse of a Bose gas with attractive interactions. <i>Physical Review A</i> , <b>2000</b> , 62,	2.6	39
84	Review of pseudogaps in strongly interacting Fermi gases. <i>Reports on Progress in Physics</i> , <b>2017</b> , 80, 104401.	1.4	38
83	Non-Abelian braiding of lattice bosons. <i>Physical Review Letters</i> , <b>2012</b> , 108, 066802	7.4	36
82	Imaging of spinor gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2004</b> , 37, S115-S125	1.3	35
81	Techniques to measure quantum criticality in cold atoms. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	34
80	Dynamics of correlations in a dilute Bose gas following an interaction quench. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	33
79	Vortex lattices of bosons in deep rotating optical lattices. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	33
78	Transverse collisional instabilities of a Bose-Einstein condensate in a driven one-dimensional lattice. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	30
77	Multiply connected Bose-Einstein-condensed alkali-metal gases: Current-carrying states and their decay. <i>Physical Review A</i> , <b>1998</b> , 57, R1505-R1508	2.6	28
76	Absence of pressure-driven supersolid flow at low frequency. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	27
75	Evolution of the pseudogap in a polarized Fermi gas. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	27
74	Nonequilibrium fractional Hall response after a topological quench. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	26
73	Wigner crystallization in inhomogeneous one-dimensional wires. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	26
72	On-site correlations in optical lattices: Band mixing to coupled quantum Hall puddles. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	25
71	Final-state effects in the radio frequency spectrum of strongly interacting fermions. <i>Physical Review Letters</i> , <b>2008</b> , 101, 060405	7.4	25
70	Density profile of a harmonically trapped ideal fermi gas in arbitrary dimension. <i>Physical Review Letters</i> , <b>2004</b> , 93, 190404	7.4	25

69	Interpreting Torsional Oscillator Measurements: Effect of Shear Modulus and Supersolidity. <i>Journal of Low Temperature Physics</i> , <b>2012</b> , 168, 175-193	1.3	23
68	Observation of a new superfluid phase for He embedded in nematically ordered aerogel. <i>Nature Communications</i> , <b>2016</b> , 7, 12975	17.4	22
67	Lattice bosons with infinite-range checkerboard interactions. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	22
66	Anomalous spin segregation in a weakly interacting two-component Fermi gas. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	21
65	Vortex ring dynamics in trapped Bose-Einstein condensates. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	19
64	Fractional quantum Hall states in the vicinity of Mott plateaus. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	19
63	Theory of the normal-superfluid interface in population-imbalanced Fermi gases. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	18
62	Fulde-Ferrell-Larkin-Ovchinnikov versus Bose-Fermi mixture in a polarized one-dimensional Fermi gas at a Feshbach resonance: A three-body study. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	17
61	Anomalous charge pumping in a one-dimensional optical superlattice. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	16
60	Stability of bosonic atomic and molecular condensates near a Feshbach resonance. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	16
59	Collective oscillations of a Fermi gas near a Feshbach resonance. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	16
58	Evolution of condensate fraction during rapid lattice ramps. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	15
57	Hyperfine spectra of trapped bosons in optical lattices. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	15
56	Pairing, ferromagnetism, and condensation of a normal spin-1 Bose gas. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	14
55	Coherent generation of photonic fractional quantum Hall states in a cavity and the search for anyonic quasiparticles. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	13
54	Competing ground states of strongly correlated bosons in the Harper-Hofstadter-Mott model. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	13
53	Magnetic-field dependence of Raman coupling in alkali-metal atoms. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	13
52	Vortices near the Mott phase of a trapped Bose-Einstein condensate. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	13

51	Finite-size scaling and the role of the thermodynamic ensemble in the transition temperature of a dilute Bose gas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2001</b> , 34, 4561-4570	1.3	13
50	Realizing the Haldane Phase with Bosons in Optical Lattices. <i>Physical Review Letters</i> , <b>2018</b> , 120, 085301	7.4	12
49	Stability of a Bose-Einstein condensate in a driven optical lattice: Crossover between weak and tight transverse confinement. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	12
48	Optical-field-dependent electron-electron scattering effects and gain generation in the intersubband transitions of n-doped quantum wells. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, 2489-2503	1.8	12
47	Dimensional crossover in a spin-imbalanced Fermi gas. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	11
46	Superpositions of Chiral Molecules. <i>Physics Magazine</i> , <b>2013</b> , 6,	1.1	11
45	Commensurability and hysteretic evolution of vortex configurations in rotating optical lattices. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	11
44	Heating from continuous number density measurements in optical lattices. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	10
43	Two-body recombination in a quantum-mechanical lattice gas: Entropy generation and probing of short-range magnetic correlations. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	10
42	Stirring trapped atoms into fractional quantum Hall puddles. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	10
41	Many-body physics in the radio-frequency spectrum of lattice bosons. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	9
40	Spin waves in a spin-1 normal Bose gas. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	9
39	Stripe formation in Bose-Einstein condensates with large numbers of vortices. <i>Physical Review A</i> , <b>2003</b> , 67,	2.6	9
38	Dynamics of correlations in shallow optical lattices. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	8
37	Pair density waves and vortices in an elongated spin-1/2 Fermi gas. <i>Physical Review Letters</i> , <b>2012</b> , 108, 245301	7.4	8
36	Rewiring stabilizer codes. <i>New Journal of Physics</i> , <b>2018</b> , 20, 083030	2.9	8
35	Evolution of coherence during ramps across the Mott-insulator-superfluid phase boundary. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	7
34	Core filling and snaking instability of dark solitons in spin-imbalanced superfluid Fermi gases. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	7

33	Collective Modes of a Soliton Train in a Fermi Superfluid. <i>Physical Review Letters</i> , <b>2017</b> , 118, 260402	7.4	7
32	Vortex structures of a two-component Bose-Einstein condensate for large anisotropies. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	7
31	Quasiparticle dispersions and lifetimes in the normal state of the BCS-BEC crossover. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	6
30	Dynamics of pattern-loaded fermions in bichromatic optical lattices. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	6
29	Absence of the twisted superfluid state in a mean-field model of bosons on a honeycomb lattice. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	6
28	Even-odd correlation functions on an optical lattice. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	6
27	Domain-wall dynamics in a two-component Bose-Mott insulator. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	6
26	Kinetics of Bose-Einstein condensation in a dimple potential. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	5
25	Proposal to directly observe the Kondo effect through enhanced photoinduced scattering of cold fermionic and bosonic atoms. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	5
24	Role of interactions in time-of-flight expansion of atomic clouds from optical lattices. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	5
23	Collisionless spin dynamics in a magnetic field gradient. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	4
22	Variational study of polarons and bipolarons in a one-dimensional Bose lattice gas in both the superfluid and the Mott-insulator regimes. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	4
21	Protocol to engineer Fulde-Ferrell-Larkin-Ovchinnikov states in a cold Fermi gas. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	4
20	Universal quantum computation with Majorana fermion edge modes through microwave spectroscopy of quasi-one-dimensional cold gases in optical lattices. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	4
19	Unconventional valley-dependent optical selection rules and Landau level mixing in bilayer graphene. <i>Nature Communications</i> , <b>2020</b> , 11, 2941	17.4	3
18	Dynamics of Bose-Einstein recondensation in higher bands. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	3
17	Superpositions of Chiral Molecules. <i>Physics Magazine</i> , <b>2012</b> , 5,	1.1	3
16	Candidate theories to explain the anomalous spectroscopic signatures of atomic H in molecular H <sub>2</sub> crystals. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	3

15	Generic features of the spectrum of trapped polarized fermions. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	3
14	Influence of film-mediated interactions on the microwave and radio frequency spectrum of spin-polarized hydrogen on helium films. <i>Physical Review Letters</i> , <b>2008</b> , 101, 165301	7.4	3
13	Thermal transport of helium-3 in a strongly confining channel. <i>Nature Communications</i> , <b>2020</b> , 11, 4843	17.4	3
12	Quantum dimer models emerging from large-spin ultracold atoms. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	2
11	Corrections to the continuous time semiclassical coherent state path integral. <i>European Physical Journal: Special Topics</i> , <b>2015</b> , 224, 591-596	2.3	2
10	Radio-frequency spectrum of fermions near a narrow Feshbach resonance. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	2
9	Driven-dissipative control of cold atoms in tilted optical lattices. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	2
8	Path-Dependent Supercooling of the $^3\text{He}$ Superfluid A-B Transition. <i>Physical Review Letters</i> , <b>2021</b> , 126, 215301	7.4	2
7	Exact topological flat bands from continuum Landau levels. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	1
6	Collective dynamics and atom loss in bright-soliton matter waves. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	1
5	Cooling quantum gases with entropy localization. <i>New Journal of Physics</i> , <b>2017</b> , 19, 023045	2.9	1
4	Magnetic polarons in two-component hard-core bosons. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	1
3	A Hallmark of Topological Insulators is Measured in Atoms. <i>Physics Magazine</i> , <b>2011</b> , 4,	1.1	1
2	Dispersion and wave-function symmetry in cold atoms experiencing artificial gauge fields. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	1
1	Study of Supersolidity and Shear Modulus Anomaly of $^4\text{He}$ in a Triple Compound Oscillator. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 400, 012047	0.3	1