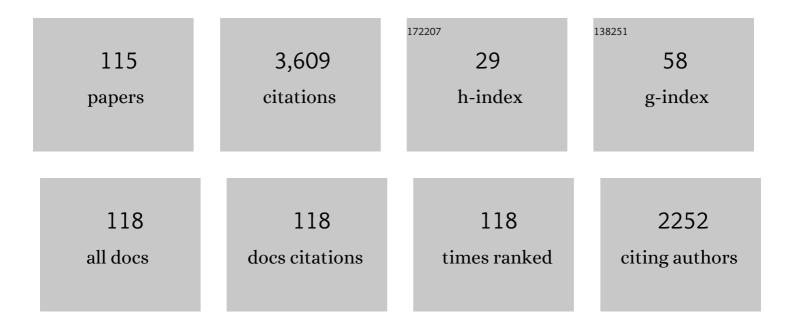
## Erich J Mueller

List of Publications by Year in descending order

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FRICH | MUELLER

#	Article	IF	CITATIONS
1	Rotating Bose gas dynamically entering the lowest Landau level. Physical Review A, 2022, 105, .	1.0	1
2	Superfluidity in the one-dimensional Bose-Hubbard model. Physical Review B, 2022, 105, .	1.1	7
3	Density Matrix Renormalization Group for Continuous Quantum Systems. Physical Review Letters, 2022, 128, .	2.9	2
4	Drag in Bose-Fermi mixtures. Physical Review A, 2021, 103, .	1.0	1
5	Correlated insulators in twisted bilayer graphene. Physical Review B, 2021, 103, .	1.1	6
6	Driven-dissipative control of cold atoms in tilted optical lattices. Physical Review A, 2021, 103, . Path-Dependent Supercooling of the <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>1.0</td><td>6</td></mml:math>	1.0	6
7	display="inline"> <mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mpr /&gt;<mml:none /&gt;<mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:none </mml:mpr </mml:mmultiscripts></mml:mrow> Superfluid <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>2.9</td><td>5</td></mml:math>	2.9	5
8	display="lifting"> <mmtmrow><mmtmrsyle mathvariant="italic"&gt;<mmtmrow><mmtmi>A</mmtmi>Influence of sublattice bias on superfluid to Mott insulator transitions. Physical Review A, 2021, 103, .</mmtmrow></mmtmrsyle </mmtmrow>	1.0	1
9	Emission of particles from a parametrically driven condensate in a one-dimensional lattice. Physical Review A, 2021, 104, .	1.0	2
10	Transport in the two-dimensional Fermi-Hubbard model: Lessons from weak coupling. Physical Review B, 2021, 104, .	1.1	4
11	Thermal transport of helium-3 in a strongly confining channel. Nature Communications, 2020, 11, 4843.	5.8	9
12	Unconventional valley-dependent optical selection rules and landau level mixing in bilayer graphene. Nature Communications, 2020, 11, 2941.	5.8	9
13	Dynamics of Bose-Einstein recondensation in higher bands. Physical Review A, 2020, 101, .	1.0	6
14	Exact topological flat bands from continuum Landau levels. Physical Review A, 2020, 101, .	1.0	4
15	Collective dynamics and atom loss in bright-soliton matter waves. Physical Review A, 2019, 99, .	1.0	2
16	Quantum dimer models emerging from large-spin ultracold atoms. Physical Review A, 2019, 99, .	1.0	4
17	Realizing the Haldane Phase with Bosons in Optical Lattices. Physical Review Letters, 2018, 120, 085301.	2.9	18
18	Coherent generation of photonic fractional quantum Hall states in a cavity and the search for anyonic quasiparticles. Physical Review A, 2018, 97, .	1.0	18

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19	Rewiring stabilizer codes. New Journal of Physics, 2018, 20, 083030.	1.2	11
20	Protocol to engineer Fulde-Ferrell-Larkin-Ovchinnikov states in a cold Fermi gas. Physical Review A, 2017, 96, .	1.0	6
21	Core filling and snaking instability of dark solitons in spin-imbalanced superfluid Fermi gases. Physical Review A, 2017, 95, .	1.0	9
22	Review of pseudogaps in strongly interacting Fermi gases. Reports on Progress in Physics, 2017, 80, 104401.	8.1	49
23	Cooling quantum gases with entropy localization. New Journal of Physics, 2017, 19, 023045.	1.2	1
24	Collective Modes of a Soliton Train in a Fermi Superfluid. Physical Review Letters, 2017, 118, 260402.	2.9	10
25	Lattice bosons with infinite-range checkerboard interactions. Physical Review A, 2016, 94, .	1.0	27
26	Disappearance of quasiparticles in a Bose lattice gas. Physical Review A, 2016, 94, .	1.0	1
27	Evolution of coherence during ramps across the Mott-insulator–superfluid phase boundary. Physical Review A, 2016, 93, .	1.0	9
28	Proposal to directly observe the Kondo effect through enhanced photoinduced scattering of cold fermionic and bosonic atoms. Physical Review A, 2016, 93, .	1.0	5
29	Dynamics of pattern-loaded fermions in bichromatic optical lattices. Physical Review A, 2016, 93, .	1.0	7
30	Competing ground states of strongly correlated bosons in the Harper-Hofstadter-Mott model. Physical Review A, 2016, 93, .	1.0	16
31	Nonequilibrium fractional Hall response after a topological quench. Physical Review A, 2016, 94, .	1.0	27
32	Observation of a new superfluid phase for 3He embedded in nematically ordered aerogel. Nature Communications, 2016, 7, 12975.	5.8	27
33	Dimensional crossover in a spin-imbalanced Fermi gas. Physical Review A, 2016, 94, .	1.0	12
34	Anomalous charge pumping in a one-dimensional optical superlattice. Physical Review A, 2015, 92, .	1.0	19
35	Stability of a Bose-Einstein condensate in a driven optical lattice: Crossover between weak and tight transverse confinement. Physical Review A, 2015, 92, .	1.0	14
36	Corrections to the continuous time semiclassical coherent state path integral. European Physical Journal: Special Topics, 2015, 224, 591-596.	1.2	2

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37	Transverse collisional instabilities of a Bose-Einstein condensate in a driven one-dimensional lattice. Physical Review A, 2015, 91, .	1.0	34
38	Quasiparticle dispersions and lifetimes in the normal state of the BCS-BEC crossover. Physical Review A, 2015, 91, .	1.0	6
39	Collisionless spin dynamics in a magnetic field gradient. Physical Review A, 2015, 91, .	1.0	6
40	Kinetics of Bose-Einstein condensation in a dimple potential. Physical Review A, 2015, 91, .	1.0	8
41	Stability of a Floquet Bose-Einstein condensate in a one-dimensional optical lattice. Physical Review A, 2014, 90, .	1.0	57
42	Route to observing topological edge modes in ultracold fermions. Physical Review A, 2014, 89, .	1.0	0
43	Heating from continuous number density measurements in optical lattices. Physical Review A, 2014, 90,	1.0	10
44	Theory of bosons in two-leg ladders with large magnetic fields. Physical Review A, 2014, 89, .	1.0	61
45	On the ladder. Nature Physics, 2014, 10, 554-555.	6.5	1
46	Floquet edge states with ultracold atoms. Physical Review A, 2014, 89, .	1.0	66
47	Variational study of polarons and bipolarons in a one-dimensional Bose lattice gas in both the superfluid and the Mott-insulator regimes. Physical Review A, 2013, 88, .	1.0	7
48	Vortex ring dynamics in trapped Bose-Einstein condensates. Physical Review A, 2013, 88, .	1.0	23
49	Magnetic-field dependence of Raman coupling in alkali-metal atoms. Physical Review A, 2013, 87, .	1.0	20
50	Magnetic polarons in two-component hard-core bosons. Physical Review A, 2013, 87, .	1.0	2
51	Dynamics of correlations in a dilute Bose gas following an interaction quench. Physical Review A, 2013, 87, .	1.0	36
52	Dynamics of correlations in shallow optical lattices. Physical Review A, 2013, 87, .	1.0	10
53	Absence of the twisted superfluid state in a mean-field model of bosons on a honeycomb lattice. Physical Review A, 2013, 87, .	1.0	7
54	Universal quantum computation with Majorana fermion edge modes through microwave spectroscopy of quasi-one-dimensional cold gases in optical lattices. Physical Review A, 2013, 88, .	1.0	5

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55	Radio-frequency spectrum of fermions near a narrow Feshbach resonance. Physical Review A, 2013, 88,	1.0	2
56	Looking for Hofstadterâ $\in$ Ms Butterfly in Cold Atoms. Physics Magazine, 2013, 6, .	0.1	12
57	Non-Abelian Braiding of Lattice Bosons. Physical Review Letters, 2012, 108, 066802.	2.9	47
58	Pair Density Waves and Vortices in an Elongated Spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn>Fermi Gas. Physical Review Letters, 2012, 108, 245301.</mml:math 	2.9	8
59	Majorana fermions in one-dimensional spin-orbit-coupled Fermi gases. Physical Review A, 2012, 86, .	1.0	52
60	Evolution of condensate fraction during rapid lattice ramps. Physical Review A, 2012, 85, .	1.0	16
61	Dispersion and wave-function symmetry in cold atoms experiencing artificial gauge fields. Physical Review A, 2012, 85, .	1.0	2
62	Study of Supersolidity and Shear Modulus Anomaly of4He in a Triple Compound Oscillator. Journal of Physics: Conference Series, 2012, 400, 012047.	0.3	2
63	Spin-Orbit Coupling Comes in From the Cold. Physics Magazine, 2012, 5, .	0.1	5
64	Interpreting Torsional Oscillator Measurements: Effect of Shear Modulus and Supersolidity. Journal of Low Temperature Physics, 2012, 168, 175-193.	0.6	24
65	Vortex structures of a two-component Bose-Einstein condensate for large anisotropies. Physical Review A, 2011, 84, .	1.0	8
66	Strong Staggered Flux Lattices for Cold Atoms. Physics Magazine, 2011, 4, .	0.1	1
67	Pairing, ferromagnetism, and condensation of a normal spin-1 Bose gas. Physical Review A, 2011, 84, .	1.0	17
68	Local Versus Global Equilibration near the Bosonic Mott-Insulator–Superfluid Transition. Physical Review Letters, 2011, 106, 125301.	2.9	47
69	Techniques to measure quantum criticality in cold atoms. Physical Review A, 2011, 84, .	1.0	37
70	Evolution of the pseudogap in a polarized Fermi gas. Physical Review A, 2011, 83, .	1.0	31
71	Optical-lattice Hamiltonians for relativistic quantum electrodynamics. Physical Review A, 2011, 83, .	1.0	65
72	Even-odd correlation functions on an optical lattice. Physical Review A, 2010, 82, .	1.0	6

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73	Domain-wall dynamics in a two-component Bose-Mott insulator. Physical Review A, 2010, 82, .	1.0	6
74	Spin waves in a spin-1 normal Bose gas. Physical Review A, 2010, 81, .	1.0	10
75	Two-body recombination in a quantum-mechanical lattice gas: Entropy generation and probing of short-range magnetic correlations. Physical Review A, 2010, 82, .	1.0	11
76	Spin-imbalance in a one-dimensional Fermi gas. Nature, 2010, 467, 567-569.	13.7	454
77	Role of interactions in time-of-flight expansion of atomic clouds from optical lattices. Physical Review A, 2010, 82, .	1.0	6
78	Fulde-Ferrell-Larkin-Ovchinnikov versus Bose-Fermi mixture in a polarized one-dimensional Fermi gas at a Feshbach resonance: A three-body study. Physical Review A, 2010, 81, .	1.0	17
79	On-site correlations in optical lattices: Band mixing to coupled quantum Hall puddles. Physical Review A, 2010, 81, .	1.0	27
80	Detecting antiferromagnetism of atoms in an optical lattice via optical Bragg scattering. Physical Review A, 2010, 81, .	1.0	85
81	Exact Parent Hamiltonian for the Quantum Hall States in a Lattice. Physical Review Letters, 2010, 105, 215303.	2.9	119
82	Candidate theories to explain the anomalous spectroscopic signatures of atomic H in molecular <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub>&lt; Physical Review B, 2010, 82, .</mml:mrow></mml:math>	/mml:mrov	v><ðmml:math
83	Fractional quantum Hall states in the vicinity of Mott plateaus. Physical Review A, 2010, 81, .	1.0	22
84	Many-body physics in the radio-frequency spectrum of lattice bosons. Physical Review A, 2010, 81, .	1.0	10
85	Anomalous spin segregation in a weakly interacting two-component Fermi gas. Physical Review A, 2009, 79, .	1.0	22
86	Absence of pressure-driven supersolid flow at low frequency. Physical Review B, 2009, 80, .	1.1	28
87	Commensurability and hysteretic evolution of vortex configurations in rotating optical lattices. Physical Review A, 2009, 79, .	1.0	11
88	Theory of the normal-superfluid interface in population-imbalanced Fermi gases. Physical Review A, 2009, 79, .	1.0	21
89	Vortices near the Mott phase of a trapped Bose-Einstein condensate. Physical Review A, 2009, 79, .	1.0	14
90	Vortex lattices of bosons in deep rotating optical lattices. Physical Review A, 2008, 77, .	1.0	34

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91	Generic features of the spectrum of trapped polarized fermions. Physical Review A, 2008, 78, .	1.0	4
92	Stability of bosonic atomic and molecular condensates near a Feshbach resonance. Physical Review A, 2008, 78, .	1.0	17
93	Final-State Effects in the Radio Frequency Spectrum of Strongly Interacting Fermions. Physical Review Letters, 2008, 101, 060405.	2.9	28
94	Quantum Monte Carlo study of one-dimensional trapped fermions with attractive contact interactions. Physical Review A, 2008, 78, .	1.0	105
95	Stirring trapped atoms into fractional quantum Hall puddles. Physical Review A, 2008, 78, .	1.0	13
96	Influence of Film-Mediated Interactions on the Microwave and Radio Frequency Spectrum of Spin-Polarized Hydrogen on Helium Films. Physical Review Letters, 2008, 101, 165301.	2.9	4
97	Quasi-One-Dimensional Polarized Fermi Superfluids. Physical Review Letters, 2007, 99, 250403.	2.9	123
98	Hyperfine spectra of trapped bosons in optical lattices. Physical Review A, 2007, 76, .	1.0	15
99	Fragmentation of Bose-Einstein condensates. Physical Review A, 2006, 74, .	1.0	244
100	Surface Tension in Unitary Fermi Gases with Population Imbalance. Physical Review Letters, 2006, 97, 070402.	2.9	80
101	Profiles of near-resonant population-imbalanced trapped Fermi gases. Physical Review A, 2006, 73, .	1.0	103
102	Wigner crystallization in inhomogeneous one-dimensional wires. Physical Review B, 2005, 72, .	1.1	26
103	Collective oscillations of a Fermi gas near a Feshbach resonance. Physical Review A, 2005, 72, .	1.0	16
104	Density Profile of a Harmonically Trapped Ideal Fermi Gas in Arbitrary Dimension. Physical Review Letters, 2004, 93, 190404.	2.9	26
105	Artificial electromagnetism for neutral atoms: Escher staircase and Laughlin liquids. Physical Review A, 2004, 70, .	1.0	170
106	Spin textures in slowly rotating Bose-Einstein condensates. Physical Review A, 2004, 69, .	1.0	74
107	High Temperature Expansion Applied to Fermions near Feshbach Resonance. Physical Review Letters, 2004, 92, 160404.	2.9	132
108	Imaging of spinor gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, S115-S125.	0.6	36

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109	Stripe formation in Bose-Einstein condensates with large numbers of vortices. Physical Review A, 2003, 67, .	1.0	10
110	Two-Component Bose-Einstein Condensates with a Large Number of Vortices. Physical Review Letters, 2002, 88, 180403.	2.9	176
111	Superfluidity and mean-field energy loops: Hysteretic behavior in Bose-Einstein condensates. Physical Review A, 2002, 66, .	1.0	110
112	Finite-size scaling and the role of the thermodynamic ensemble in the transition temperature of a dilute Bose gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 4561-4570.	0.6	14
113	Finite-temperature collapse of a Bose gas with attractive interactions. Physical Review A, 2000, 62, .	1.0	42
114	Multiply connected Bose-Einstein-condensed alkali-metal gases: Current-carrying states and their decay. Physical Review A, 1998, 57, R1505-R1508.	1.0	31
115	Optical-field-dependent electron-electron scattering effects and gain generation in the intersubband transitions of n-doped quantum wells. Journal of Physics Condensed Matter, 1998, 10, 2489-2503.	0.7	12