

Erich J Mueller

List of Publications by Year in Descending Order

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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 | Driven-dissipative control of cold atoms in tilted optical lattices. <i>Physical Review A</i> , 2021 , 103, | 2.6 | 2 |
| 103 | Path-Dependent Supercooling of the ^3He Superfluid A-B Transition. <i>Physical Review Letters</i> , 2021 , 126, 215301 | 7.4 | 2 |
| 102 | Unconventional valley-dependent optical selection rules and Landau level mixing in bilayer graphene. <i>Nature Communications</i> , 2020 , 11, 2941 | 17.4 | 3 |
| 101 | Dynamics of Bose-Einstein recondensation in higher bands. <i>Physical Review A</i> , 2020 , 101, | 2.6 | 3 |
| 100 | Exact topological flat bands from continuum Landau levels. <i>Physical Review A</i> , 2020 , 101, | 2.6 | 1 |
| 99 | Thermal transport of helium-3 in a strongly confining channel. <i>Nature Communications</i> , 2020 , 11, 4843 | 17.4 | 3 |
| 98 | Quantum dimer models emerging from large-spin ultracold atoms. <i>Physical Review A</i> , 2019 , 99, | 2.6 | 2 |
| 97 | Collective dynamics and atom loss in bright-soliton matter waves. <i>Physical Review A</i> , 2019 , 99, | 2.6 | 1 |
| 96 | Realizing the Haldane Phase with Bosons in Optical Lattices. <i>Physical Review Letters</i> , 2018 , 120, 085301 | 7.4 | 12 |
| 95 | Coherent generation of photonic fractional quantum Hall states in a cavity and the search for anyonic quasiparticles. <i>Physical Review A</i> , 2018 , 97, | 2.6 | 13 |
| 94 | Rewiring stabilizer codes. <i>New Journal of Physics</i> , 2018 , 20, 083030 | 2.9 | 8 |
| 93 | Protocol to engineer Fulde-Ferrell-Larkin-Ovchinnikov states in a cold Fermi gas. <i>Physical Review A</i> , 2017 , 96, | 2.6 | 4 |
| 92 | Core filling and snaking instability of dark solitons in spin-imbalanced superfluid Fermi gases. <i>Physical Review A</i> , 2017 , 95, | 2.6 | 7 |
| 91 | Review of pseudogaps in strongly interacting Fermi gases. <i>Reports on Progress in Physics</i> , 2017 , 80, 104401 | 11.4 | 38 |
| 90 | Cooling quantum gases with entropy localization. <i>New Journal of Physics</i> , 2017 , 19, 023045 | 2.9 | 1 |
| 89 | Collective Modes of a Soliton Train in a Fermi Superfluid. <i>Physical Review Letters</i> , 2017 , 118, 260402 | 7.4 | 7 |
| 88 | Evolution of coherence during ramps across the Mott-insulator-superfluid phase boundary. <i>Physical Review A</i> , 2016 , 93, | 2.6 | 7 |

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| 87 | Proposal to directly observe the Kondo effect through enhanced photoinduced scattering of cold fermionic and bosonic atoms. <i>Physical Review A</i> , 2016 , 93, | 2.6 | 5 |
| 86 | Dynamics of pattern-loaded fermions in bichromatic optical lattices. <i>Physical Review A</i> , 2016 , 93, | 2.6 | 6 |
| 85 | Competing ground states of strongly correlated bosons in the Harper-Hofstadter-Mott model. <i>Physical Review A</i> , 2016 , 93, | 2.6 | 13 |
| 84 | Nonequilibrium fractional Hall response after a topological quench. <i>Physical Review A</i> , 2016 , 94, | 2.6 | 26 |
| 83 | Observation of a new superfluid phase for He embedded in nematically ordered aerogel. <i>Nature Communications</i> , 2016 , 7, 12975 | 17.4 | 22 |
| 82 | Dimensional crossover in a spin-imbalanced Fermi gas. <i>Physical Review A</i> , 2016 , 94, | 2.6 | 11 |
| 81 | Lattice bosons with infinite-range checkerboard interactions. <i>Physical Review A</i> , 2016 , 94, | 2.6 | 22 |
| 80 | Transverse collisional instabilities of a Bose-Einstein condensate in a driven one-dimensional lattice. <i>Physical Review A</i> , 2015 , 91, | 2.6 | 30 |
| 79 | Quasiparticle dispersions and lifetimes in the normal state of the BCS-BEC crossover. <i>Physical Review A</i> , 2015 , 91, | 2.6 | 6 |
| 78 | Collisionless spin dynamics in a magnetic field gradient. <i>Physical Review A</i> , 2015 , 91, | 2.6 | 4 |
| 77 | Kinetics of Bose-Einstein condensation in a dimple potential. <i>Physical Review A</i> , 2015 , 91, | 2.6 | 5 |
| 76 | Anomalous charge pumping in a one-dimensional optical superlattice. <i>Physical Review A</i> , 2015 , 92, | 2.6 | 16 |
| 75 | Stability of a Bose-Einstein condensate in a driven optical lattice: Crossover between weak and tight transverse confinement. <i>Physical Review A</i> , 2015 , 92, | 2.6 | 12 |
| 74 | Corrections to the continuous time semiclassical coherent state path integral. <i>European Physical Journal: Special Topics</i> , 2015 , 224, 591-596 | 2.3 | 2 |
| 73 | Floquet edge states with ultracold atoms. <i>Physical Review A</i> , 2014 , 89, | 2.6 | 54 |
| 72 | Stability of a Floquet Bose-Einstein condensate in a one-dimensional optical lattice. <i>Physical Review A</i> , 2014 , 90, | 2.6 | 51 |
| 71 | Heating from continuous number density measurements in optical lattices. <i>Physical Review A</i> , 2014 , 90, | 2.6 | 10 |
| 70 | Theory of bosons in two-leg ladders with large magnetic fields. <i>Physical Review A</i> , 2014 , 89, | 2.6 | 47 |

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| 69 | 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> , 2013 , 88, | 2.6 | 4 |
| 68 | Vortex ring dynamics in trapped Bose-Einstein condensates. <i>Physical Review A</i> , 2013 , 88, | 2.6 | 19 |
| 67 | Magnetic-field dependence of Raman coupling in alkali-metal atoms. <i>Physical Review A</i> , 2013 , 87, | 2.6 | 13 |
| 66 | Magnetic polarons in two-component hard-core bosons. <i>Physical Review A</i> , 2013 , 87, | 2.6 | 1 |
| 65 | Dynamics of correlations in a dilute Bose gas following an interaction quench. <i>Physical Review A</i> , 2013 , 87, | 2.6 | 33 |
| 64 | Dynamics of correlations in shallow optical lattices. <i>Physical Review A</i> , 2013 , 87, | 2.6 | 8 |
| 63 | Absence of the twisted superfluid state in a mean-field model of bosons on a honeycomb lattice. <i>Physical Review A</i> , 2013 , 87, | 2.6 | 6 |
| 62 | 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> , 2013 , 88, | 2.6 | 4 |
| 61 | Radio-frequency spectrum of fermions near a narrow Feshbach resonance. <i>Physical Review A</i> , 2013 , 88, | 2.6 | 2 |
| 60 | Superpositions of Chiral Molecules. <i>Physics Magazine</i> , 2013 , 6, | 1.1 | 11 |
| 59 | Superpositions of Chiral Molecules. <i>Physics Magazine</i> , 2012 , 5, | 1.1 | 3 |
| 58 | Interpreting Torsional Oscillator Measurements: Effect of Shear Modulus and Supersolidity. <i>Journal of Low Temperature Physics</i> , 2012 , 168, 175-193 | 1.3 | 23 |
| 57 | Non-Abelian braiding of lattice bosons. <i>Physical Review Letters</i> , 2012 , 108, 066802 | 7.4 | 36 |
| 56 | Pair density waves and vortices in an elongated spin-1/2 Fermi gas. <i>Physical Review Letters</i> , 2012 , 108, 245301 | 7.4 | 8 |
| 55 | Majorana fermions in one-dimensional spin-orbit-coupled Fermi gases. <i>Physical Review A</i> , 2012 , 86, | 2.6 | 48 |
| 54 | Evolution of condensate fraction during rapid lattice ramps. <i>Physical Review A</i> , 2012 , 85, | 2.6 | 15 |
| 53 | Dispersion and wave-function symmetry in cold atoms experiencing artificial gauge fields. <i>Physical Review A</i> , 2012 , 85, | 2.6 | 1 |
| 52 | Study of Supersolidity and Shear Modulus Anomaly of ^4He in a Triple Compound Oscillator. <i>Journal of Physics: Conference Series</i> , 2012 , 400, 012047 | 0.3 | 1 |

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|----|---|------|-----|
| 51 | Vortex structures of a two-component Bose-Einstein condensate for large anisotropies. <i>Physical Review A</i> , 2011 , 84, | 2.6 | 7 |
| 50 | A Hallmark of Topological Insulators is Measured in Atoms. <i>Physics Magazine</i> , 2011 , 4, | 1.1 | 1 |
| 49 | Pairing, ferromagnetism, and condensation of a normal spin-1 Bose gas. <i>Physical Review A</i> , 2011 , 84, | 2.6 | 14 |
| 48 | Local versus global equilibration near the bosonic Mott-insulator-superfluid transition. <i>Physical Review Letters</i> , 2011 , 106, 125301 | 7.4 | 45 |
| 47 | Techniques to measure quantum criticality in cold atoms. <i>Physical Review A</i> , 2011 , 84, | 2.6 | 34 |
| 46 | Evolution of the pseudogap in a polarized Fermi gas. <i>Physical Review A</i> , 2011 , 83, | 2.6 | 27 |
| 45 | Optical-lattice Hamiltonians for relativistic quantum electrodynamics. <i>Physical Review A</i> , 2011 , 83, | 2.6 | 58 |
| 44 | Spin-imbalance in a one-dimensional Fermi gas. <i>Nature</i> , 2010 , 467, 567-9 | 50.4 | 399 |
| 43 | Role of interactions in time-of-flight expansion of atomic clouds from optical lattices. <i>Physical Review A</i> , 2010 , 82, | 2.6 | 5 |
| 42 | 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> , 2010 , 81, | 2.6 | 17 |
| 41 | On-site correlations in optical lattices: Band mixing to coupled quantum Hall puddles. <i>Physical Review A</i> , 2010 , 81, | 2.6 | 25 |
| 40 | Detecting antiferromagnetism of atoms in an optical lattice via optical Bragg scattering. <i>Physical Review A</i> , 2010 , 81, | 2.6 | 81 |
| 39 | Exact parent Hamiltonian for the quantum Hall states in a lattice. <i>Physical Review Letters</i> , 2010 , 105, 215303 | 7.4 | 94 |
| 38 | Candidate theories to explain the anomalous spectroscopic signatures of atomic H in molecular H ₂ crystals. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 3 |
| 37 | Fractional quantum Hall states in the vicinity of Mott plateaus. <i>Physical Review A</i> , 2010 , 81, | 2.6 | 19 |
| 36 | Many-body physics in the radio-frequency spectrum of lattice bosons. <i>Physical Review A</i> , 2010 , 81, | 2.6 | 9 |
| 35 | Even-odd correlation functions on an optical lattice. <i>Physical Review A</i> , 2010 , 82, | 2.6 | 6 |
| 34 | Domain-wall dynamics in a two-component Bose-Mott insulator. <i>Physical Review A</i> , 2010 , 82, | 2.6 | 6 |

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| 33 | Spin waves in a spin-1 normal Bose gas. <i>Physical Review A</i> , 2010 , 81, | 2.6 | 9 |
| 32 | Two-body recombination in a quantum-mechanical lattice gas: Entropy generation and probing of short-range magnetic correlations. <i>Physical Review A</i> , 2010 , 82, | 2.6 | 10 |
| 31 | Anomalous spin segregation in a weakly interacting two-component Fermi gas. <i>Physical Review A</i> , 2009 , 79, | 2.6 | 21 |
| 30 | Absence of pressure-driven supersolid flow at low frequency. <i>Physical Review B</i> , 2009 , 80, | 3.3 | 27 |
| 29 | Commensurability and hysteretic evolution of vortex configurations in rotating optical lattices. <i>Physical Review A</i> , 2009 , 79, | 2.6 | 11 |
| 28 | Theory of the normal-superfluid interface in population-imbalanced Fermi gases. <i>Physical Review A</i> , 2009 , 79, | 2.6 | 18 |
| 27 | Vortices near the Mott phase of a trapped Bose-Einstein condensate. <i>Physical Review A</i> , 2009 , 79, | 2.6 | 13 |
| 26 | Vortex lattices of bosons in deep rotating optical lattices. <i>Physical Review A</i> , 2008 , 77, | 2.6 | 33 |
| 25 | Generic features of the spectrum of trapped polarized fermions. <i>Physical Review A</i> , 2008 , 78, | 2.6 | 3 |
| 24 | Stability of bosonic atomic and molecular condensates near a Feshbach resonance. <i>Physical Review A</i> , 2008 , 78, | 2.6 | 16 |
| 23 | Final-state effects in the radio frequency spectrum of strongly interacting fermions. <i>Physical Review Letters</i> , 2008 , 101, 060405 | 7.4 | 25 |
| 22 | Quantum Monte Carlo study of one-dimensional trapped fermions with attractive contact interactions. <i>Physical Review A</i> , 2008 , 78, | 2.6 | 96 |
| 21 | Stirring trapped atoms into fractional quantum Hall puddles. <i>Physical Review A</i> , 2008 , 78, | 2.6 | 10 |
| 20 | Influence of film-mediated interactions on the microwave and radio frequency spectrum of spin-polarized hydrogen on helium films. <i>Physical Review Letters</i> , 2008 , 101, 165301 | 7.4 | 3 |
| 19 | Quasi-one-dimensional polarized fermi superfluids. <i>Physical Review Letters</i> , 2007 , 99, 250403 | 7.4 | 116 |
| 18 | Hyperfine spectra of trapped bosons in optical lattices. <i>Physical Review A</i> , 2007 , 76, | 2.6 | 15 |
| 17 | Fragmentation of Bose-Einstein condensates. <i>Physical Review A</i> , 2006 , 74, | 2.6 | 209 |
| 16 | Surface tension in unitary fermi gases with population imbalance. <i>Physical Review Letters</i> , 2006 , 97, 070402 | 7.4 | 76 |

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| 15 | Profiles of near-resonant population-imbalanced trapped Fermi gases. <i>Physical Review A</i> , 2006 , 73, | 2.6 | 101 |
| 14 | Wigner crystallization in inhomogeneous one-dimensional wires. <i>Physical Review B</i> , 2005 , 72, | 3.3 | 26 |
| 13 | Collective oscillations of a Fermi gas near a Feshbach resonance. <i>Physical Review A</i> , 2005 , 72, | 2.6 | 16 |
| 12 | Density profile of a harmonically trapped ideal fermi gas in arbitrary dimension. <i>Physical Review Letters</i> , 2004 , 93, 190404 | 7.4 | 25 |
| 11 | Artificial electromagnetism for neutral atoms: Escher staircase and Laughlin liquids. <i>Physical Review A</i> , 2004 , 70, | 2.6 | 162 |
| 10 | Spin textures in slowly rotating Bose-Einstein condensates. <i>Physical Review A</i> , 2004 , 69, | 2.6 | 68 |
| 9 | High temperature expansion applied to fermions near Feshbach resonance. <i>Physical Review Letters</i> , 2004 , 92, 160404 | 7.4 | 125 |
| 8 | Imaging of spinor gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, S115-S125 | 1.3 | 35 |
| 7 | Stripe formation in Bose-Einstein condensates with large numbers of vortices. <i>Physical Review A</i> , 2003 , 67, | 2.6 | 9 |
| 6 | Two-component Bose-Einstein condensates with a large number of vortices. <i>Physical Review Letters</i> , 2002 , 88, 180403 | 7.4 | 154 |
| 5 | Superfluidity and mean-field energy loops: Hysteretic behavior in Bose-Einstein condensates. <i>Physical Review A</i> , 2002 , 66, | 2.6 | 98 |
| 4 | 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> , 2001 , 34, 4561-4570 | 1.3 | 13 |
| 3 | Finite-temperature collapse of a Bose gas with attractive interactions. <i>Physical Review A</i> , 2000 , 62, | 2.6 | 39 |
| 2 | Multiply connected Bose-Einstein-condensed alkali-metal gases: Current-carrying states and their decay. <i>Physical Review A</i> , 1998 , 57, R1505-R1508 | 2.6 | 28 |
| 1 | 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> , 1998 , 10, 2489-2503 | 1.8 | 12 |