

# Peter Engels

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

3,581  
citations

218381

26  
h-index

329751

37  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1789  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Gravitational caustics in an atom laser. Nature Communications, 2021, 12, 7226.   | 5.8 | 4         |
| 2  | Observation and analysis of multiple dark-antidark solitons in two-component Bose-Einstein condensates. Physical Review A, 2020, 102, .   | 1.0 | 27        |
| 3  | Stability in turbulence: The interplay between shocks and vorticity in a superfluid with higher-order dispersion. Physical Review A, 2020, 102, .   | 1.0 | 5         |
| 4  | Nonexponential Tunneling due to Mean-Field-Induced Swallowtails. Physical Review Letters, 2020, 125, 213401.  | 2.9 | 10        |
| 5  | Rabi oscillations and Ramsey-type pulses in ultracold bosons: Role of interactions. Physical Review A, 2020, 101, .   | 1.0 | 6         |
| 6  | Experimental realization of a non-magnetic one-way spin switch. Nature Communications, 2019, 10, 3381.  | 5.8 | 11        |
| 7  | Experimental realization of a long-lived striped Bose-Einstein condensate induced by momentum-space hopping. Physical Review A, 2019, 99, .   | 1.0 | 27        |
| 8  | Three-Component Soliton States in Spinor $F=1$ Bose-Einstein Condensates. Physical Review Letters, 2018, 120, 063202.   | 2.9 | 89        |
| 9  | Momentum-Space Josephson Effects. Physical Review Letters, 2018, 120, 120401.   | 2.9 | 24        |
| 10 | Dissipative shock waves generated by a quantum-mechanical piston. Nature Communications, 2018, 9, 4665.   | 5.8 | 22        |
| 11 | Negative-Mass Hydrodynamics in a Spin-Orbit-coupled Bose-Einstein Condensate. Physical Review Letters, 2017, 118, 155301.   | 2.9 | 95        |
| 12 | Vector dark-antidark solitary waves in multicomponent Bose-Einstein condensates. Physical Review A, 2016, 94, .   | 1.0 | 43        |
| 13 | Spin-momentum coupled Bose-Einstein condensates with lattice band pseudospins. Nature Communications, 2016, 7, 10867.   | 5.8 | 23        |
| 14 | Properties of spin-orbit-coupled Bose-Einstein condensates. Frontiers of Physics, 2016, 11, 1.  | 2.4 | 89        |
| 15 | Spin-Orbit-Coupled Bose-Einstein Condensates in a One-Dimensional Optical Lattice. Physical Review Letters, 2015, 114, 070401.  | 2.9 | 126       |
| 16 | Measurement of collective excitations in a spin-orbit-coupled Bose-Einstein condensate. Physical Review A, 2014, 90, .  | 1.0 | 68        |
| 17 | Dicke-type phase transition in a spin-orbit-coupled Bose-Einstein condensate. Nature Communications, 2014, 5, 4023.   | 5.8 | 125       |
| 18 | Phase Winding a Two-Component Bose-Einstein Condensate in an Elongated Trap: Experimental Observation of Moving Magnetic Orders and Dark-Bright Solitons. Physical Review Letters, 2013, 111, 264101. | 2.9 | 39        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Scattering of atomic dark-bright solitons from narrow impurities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 065302.                     | 0.6 | 38        |
| 20 | Observation of Zitterbewegung in a spin-orbit-coupled Bose-Einstein condensate. <i>Physical Review A</i> , 2013, 88, .   | 1.0 | 268       |
| 21 | Beating dark-dark solitons in Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 115301.                              | 0.6 | 65        |
| 22 | Dynamics of dark-bright solitons in cigar-shaped Bose-Einstein condensates. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 642-646. | 0.9 | 92        |
| 23 | Multiple dark-bright solitons in atomic Bose-Einstein condensates. <i>Physical Review A</i> , 2011, 84, .  | 1.0 | 83        |
| 24 | Dark-dark solitons and modulational instability in miscible two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2011, 84, .                                  | 1.0 | 151       |
| 25 | Generation of Dark-Bright Soliton Trains in Superfluid-Superfluid Counterflow. <i>Physical Review Letters</i> , 2011, 106, 065302.   | 2.9 | 262       |
| 26 | Matter-wave interference in Bose-Einstein condensates: A dispersive hydrodynamic perspective. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1311-1320.                  | 1.3 | 25        |
| 27 | Formation of Dispersive Shock Waves by Merging and Splitting Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2008, 101, 170404.                                  | 2.9 | 119       |
| 28 | Piston Dispersive Shock Wave Problem. <i>Physical Review Letters</i> , 2008, 100, 084504.  | 2.9 | 41        |
| 29 | Observation of Faraday Waves in a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2007, 98, 095301.   | 2.9 | 173       |
| 30 | Stationary and Nonstationary Fluid Flow of a Bose-Einstein Condensate Through a Penetrable Barrier. <i>Physical Review Letters</i> , 2007, 99, 160405.                       | 2.9 | 192       |
| 31 | Dispersive and classical shock waves in Bose-Einstein condensates and gas dynamics. <i>Physical Review A</i> , 2006, 74, .   | 1.0 | 245       |
| 32 | Vortex-Lattice Dynamics in Rotating Spinor Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2004, 93, 210403.   | 2.9 | 183       |
| 33 | Vortex Lattice Dynamics in a Dilute Gas BEC. <i>Journal of Low Temperature Physics</i> , 2004, 134, 683-688.   | 0.6 | 12        |
| 34 | Observation of Long-Lived Vortex Aggregates in Rapidly Rotating Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2003, 90, 170405.                                | 2.9 | 162       |
| 35 | Observation of Tkachenko Oscillations in Rapidly Rotating Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2003, 91, 100402.                                      | 2.9 | 179       |
| 36 | Nonequilibrium Effects of Anisotropic Compression Applied to Vortex Lattices in Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2002, 89, 100403.                | 2.9 | 156       |

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|----|---|-----|-----------|
| 37 | Driving Bose-Einstein-Condensate Vorticity with a Rotating Normal Cloud. Physical Review Letters, 2001, 87, 210403. | 2.9 | 302       |
| 38 | Vortex lines and vortex lattices in a Bose-Einstein condensate. , 0, , .  |     | 0         |