

# Han Pu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2403215/publications.pdf>

Version: 2024-02-01

148  
papers

6,357  
citations

50276

46  
h-index

71685

76  
g-index

149  
all docs

149  
docs citations

149  
times ranked

2402  
citing authors

| #  | ARTICLE                                                                                                                                                                                | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Quantum Spins Mixing in Spinor Bose-Einstein Condensates. Physical Review Letters, 1998, 81, 5257-5261.                                                                                | 7.8 | 566       |
| 2  | Properties of Two-Species Bose Condensates. Physical Review Letters, 1998, 80, 1130-1133.                                                                                              | 7.8 | 359       |
| 3  | Spin-Orbit Coupled Weakly Interacting Bose-Einstein Condensates in Harmonic Traps. Physical Review Letters, 2012, 108, 010402.                                                         | 7.8 | 273       |
| 4  | Spin-mixing dynamics of a spinor Bose-Einstein condensate. Physical Review A, 1999, 60, 1463-1470.                                                                                     | 2.5 | 207       |
| 5  | Probing Anisotropic Superfluidity in Atomic Fermi Gases with Rashba Spin-Orbit Coupling. Physical Review Letters, 2011, 107, 195304.                                                   | 7.8 | 194       |
| 6  | Collective Excitations, Metastability, and Nonlinear Response of a Trapped Two-Species Bose-Einstein Condensate. Physical Review Letters, 1998, 80, 1134-1137.                         | 7.8 | 186       |
| 7  | Creating Macroscopic Atomic Einstein-Podolsky-Rosen States from Bose-Einstein Condensates. Physical Review Letters, 2000, 85, 3987-3990.                                               | 7.8 | 185       |
| 8  | Half-quantum vortex state in a spin-orbit-coupled Bose-Einstein condensate. Physical Review A, 2012, 85, .                                                                             | 2.5 | 143       |
| 9  | Coherent disintegration and stability of vortices in trapped Bose condensates. Physical Review A, 1999, 59, 1533-1537.                                                                 | 2.5 | 137       |
| 10 | Manifestations of the Roton Mode in Dipolar Bose-Einstein Condensates. Physical Review Letters, 2008, 100, 245302.                                                                     | 7.8 | 133       |
| 11 | Stable Solitons in Three Dimensional Free Space without the Ground State: Self-Trapped Bose-Einstein Condensates with Spin-Orbit Coupling. Physical Review Letters, 2015, 115, 253902. | 7.8 | 132       |
| 12 | Stability Signature in Two-Species Dilute Bose-Einstein Condensates. Physical Review Letters, 1997, 79, 3105-3108.                                                                     | 7.8 | 106       |
| 13 | Spontaneous Spin Textures in Dipolar Spinor Condensates. Physical Review Letters, 2006, 97, 020401.                                                                                    | 7.8 | 100       |
| 14 | Phase-space deformation of a trapped dipolar Fermi gas. Physical Review A, 2008, 77, .                                                                                                 | 2.5 | 98        |
| 15 | Creating a Stable Molecular Condensate Using a Generalized Raman Adiabatic Passage Scheme. Physical Review Letters, 2004, 93, 250403.                                                  | 7.8 | 95        |
| 16 | Adiabatic Condition for Nonlinear Systems. Physical Review Letters, 2007, 98, 050406.                                                                                                  | 7.8 | 93        |
| 17 | Quantum Phases of Dipolar Spinor Condensates. Physical Review Letters, 2004, 93, 040403.                                                                                               | 7.8 | 92        |
| 18 | Vortex structures in dipolar condensates. Physical Review A, 2006, 73, .                                                                                                               | 2.5 | 92        |

| #  | ARTICLE                                                                                                                                             | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Controlling Condensate Collapse and Expansion with an Optical Feshbach Resonance. Physical Review Letters, 2013, 110, 123201.                       | 7.8 | 91        |
| 20 | Ferromagnetism in a Lattice of Bose-Einstein Condensates. Physical Review Letters, 2001, 87, 140405.                                                | 7.8 | 90        |
| 21 | Structural Phase Transitions of Vortex Matter in an Optical Lattice. Physical Review Letters, 2005, 94, 190401.                                     | 7.8 | 84        |
| 22 | Symmetry breaking and self-trapping of a dipolar Bose-Einstein condensate in a double-well potential. Physical Review A, 2009, 79, .                | 2.5 | 78        |
| 23 | Probing Majorana fermions in spin-orbit-coupled atomic Fermi gases. Physical Review A, 2012, 85, .                                                  | 2.5 | 78        |
| 24 | Rashba spin-orbit-coupled atomic Fermi gases. Physical Review A, 2011, 84, .                                                                        | 2.5 | 77        |
| 25 | Formation and transformation of vector solitons in two-species Bose-Einstein condensates with a tunable interaction. Physical Review A, 2009, 79, . | 2.5 | 74        |
| 26 | Generation of arbitrary Dicke states in spinor Bose-Einstein condensates. Optics Communications, 2001, 188, 149-154.                                | 2.1 | 65        |
| 27 | Strongly interacting quantum gases in one-dimensional traps. Physical Review A, 2015, 91, .                                                         | 2.5 | 65        |
| 28 | Spin Waves in a Bose-Einstein-Condensed Atomic Spin Chain. Physical Review Letters, 2002, 88, 060401.                                               | 7.8 | 63        |
| 29 | Dynamical properties of dipolar Fermi gases. New Journal of Physics, 2009, 11, 055017.                                                              | 2.9 | 63        |
| 30 | FERMI GASES WITH SYNTHETIC SPIN-ORBIT COUPLING. Annual Review of Cold Atoms and Molecules, 2014, , 81-143.                                          | 2.8 | 60        |
| 31 | Cavity-assisted dynamical spin-orbit coupling in cold atoms. Physical Review A, 2014, 89, .                                                         | 2.5 | 58        |
| 32 | Wave Mixing of Optical Pulses and Bose-Einstein Condensates. Physical Review Letters, 2003, 91, 150407.                                             | 7.8 | 57        |
| 33 | Magnetization, squeezing, and entanglement in dipolar spin-1 condensates. Physical Review A, 2006, 73, .                                            | 2.5 | 57        |
| 34 | Self-trapping of a Fermi superfluid in a double-well potential in the Bose-Einstein-condensate-unitarity crossover. Physical Review A, 2009, 80, .  | 2.5 | 55        |
| 35 | Fundamental limit for integrated atom optics with Bose-Einstein condensates. Physical Review A, 2003, 68, .                                         | 2.5 | 54        |
| 36 | Anderson localization of cold atomic gases with effective spin-orbit interaction in a quasiperiodic optical lattice. Physical Review A, 2013, 87, . | 2.5 | 53        |

| #  | ARTICLE                                                                                                                                                       | IF   | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Effective-mass analysis of Bose-Einstein condensates in optical lattices: Stabilization and levitation. <i>Physical Review A</i> , 2003, 67, .                | 2.5  | 52        |
| 38 | Ground-State Phase Diagram of a Spin-Orbital-Angular-Momentum Coupled Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2019, 122, 110402.           | 7.8  | 52        |
| 39 | Spatial density oscillations in trapped dipolar condensates. <i>Physical Review A</i> , 2010, 82, .                                                           | 2.5  | 50        |
| 40 | Fuldeâ€™Ferrell pairing instability in spinâ€™orbit coupled Fermi gas. <i>New Journal of Physics</i> , 2013, 15, 075014.                                      | 2.9  | 50        |
| 41 | Finite-momentum dimer bound state in a spin-orbit-coupled Fermi gas. <i>Physical Review A</i> , 2013, 87, .                                                   | 2.5  | 50        |
| 42 | Radio-frequency spectroscopy of a strongly interacting spin-orbit-coupled Fermi gas. <i>Physical Review A</i> , 2013, 87, .                                   | 2.5  | 50        |
| 43 | Universal Impurity-Induced Bound State in Topological Superfluids. <i>Physical Review Letters</i> , 2013, 110, 020401.                                        | 7.8  | 48        |
| 44 | Dynamically Manipulating Topological Physics and Edge Modes in a Single Degenerate Optical Cavity. <i>Physical Review Letters</i> , 2017, 118, 083603.        | 7.8  | 48        |
| 45 | Angular spin-orbit coupling in cold atoms. <i>Physical Review A</i> , 2015, 91, .                                                                             | 2.5  | 47        |
| 46 | Macroscopic Spin Tunneling and Quantum Critical Behavior of a Condensate in a Double-Well Potential. <i>Physical Review Letters</i> , 2002, 89, 090401.       | 7.8  | 46        |
| 47 | Manipulating spinor condensates with magnetic fields: Stochastization, metastability, and dynamical spin localization. <i>Physical Review A</i> , 2000, 61, . | 2.5  | 45        |
| 48 | Cavity-Mediated Strong Matter Wave Bistability in a Spin-1 Condensate. <i>Physical Review Letters</i> , 2009, 103, 160403.                                    | 7.8  | 45        |
| 49 | Single impurity in ultracold Fermi superfluids. <i>Physical Review A</i> , 2011, 83, .                                                                        | 2.5  | 40        |
| 50 | Adiabatic theorem for a condensate system in an atom-molecule dark state. <i>Physical Review A</i> , 2007, 75, .                                              | 2.5  | 37        |
| 51 | Dynamical phases in quenched spinâ€™orbit-coupled degenerate Fermi gas. <i>Nature Communications</i> , 2015, 6, 6103.                                         | 12.8 | 36        |
| 52 | Phonon Spectrum and Dynamical Stability of a Dilute Quantum Degenerate Bose-Fermi Mixture. <i>Physical Review Letters</i> , 2002, 88, 070408.                 | 7.8  | 35        |
| 53 | Magnetism in a lattice of spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2002, 66, .                                                            | 2.5  | 35        |
| 54 | Spin-orbit angular momentum coupling in a spin-1 Bose-Einstein condensate. <i>Physical Review A</i> , 2016, 93, .                                             | 2.5  | 35        |

| #  | ARTICLE                                                                                                                                                                                    | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Bose-Einstein condensates on a ring with periodic scattering length: Spontaneous symmetry breaking and entanglement. <i>Physical Review A</i> , 2008, 77, .                                | 2.5 | 34        |
| 56 | Multistability in an optomechanical system with a two-component Bose-Einstein condensate. <i>Physical Review A</i> , 2011, 83, .                                                           | 2.5 | 34        |
| 57 | Expansion of 1D Polarized Superfluids: The Fulde-Ferrell-Larkin-Ovchinnikov State Reveals Itself. <i>Physical Review Letters</i> , 2012, 108, 225302.                                      | 7.8 | 34        |
| 58 | Hartree-Fock-Bogoliubov theory of dipolar Fermi gases. <i>Physical Review A</i> , 2010, 81, .                                                                                              | 2.5 | 31        |
| 59 | Spin dynamics and domain formation of a spinor Bose-Einstein condensate in an optical cavity. <i>Physical Review A</i> , 2010, 81, .                                                       | 2.5 | 30        |
| 60 | Instabilities and self-oscillations in atomic four-wave mixing. <i>Physical Review A</i> , 2001, 63, .                                                                                     | 2.5 | 29        |
| 61 | Quantum Phases in a Quantum Rabi Triangle. <i>Physical Review Letters</i> , 2021, 127, 063602.                                                                                             | 7.8 | 29        |
| 62 | Properties of a coupled two-species atom-heteronuclear-molecule condensate. <i>Physical Review A</i> , 2007, 75, .                                                                         | 2.5 | 27        |
| 63 | Dissociation dynamics of a Bose-Einstein condensate of molecules. <i>Physical Review A</i> , 2005, 72, .                                                                                   | 2.5 | 26        |
| 64 | Bose-Einstein condensates in a ring-shaped trap with a nonlinear double-well potential. <i>Physical Review A</i> , 2012, 85, .                                                             | 2.5 | 25        |
| 65 | Deep learning-enhanced variational Monte Carlo method for quantum many-body physics. <i>Physical Review Research</i> , 2020, 2, .                                                          | 3.6 | 25        |
| 66 | Phase separation in a two-species atomic Bose-Einstein condensate with an interspecies Feshbach resonance. <i>Physical Review A</i> , 2008, 78, .                                          | 2.5 | 24        |
| 67 | Quantum phase diffusion of a two-component dilute Bose-Einstein condensate. <i>Physical Review A</i> , 1998, 58, 531-535.                                                                  | 2.5 | 23        |
| 68 | Coherent acceleration of Bose-Einstein condensates. <i>Physical Review A</i> , 2001, 64, .                                                                                                 | 2.5 | 23        |
| 69 | Concomitant modulated superfluidity in polarized Fermi gases. <i>Physical Review A</i> , 2011, 83, .                                                                                       | 2.5 | 23        |
| 70 | Bose-Fermi mapping and a multibranch spin-chain model for strongly interacting quantum gases in one dimension: Dynamics and collective excitations. <i>Physical Review A</i> , 2016, 94, . | 2.5 | 23        |
| 71 | Effects of spin-orbit coupling on Jaynes-Cummings and Tavis-Cummings models. <i>Physical Review A</i> , 2016, 94, .                                                                        | 2.5 | 23        |
| 72 | Eliminating the Mean-Field Shift in Two-Component Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2000, 85, 5030-5033.                                                         | 7.8 | 22        |

| #  | ARTICLE                                                                                                                                                                                        | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Creation of topological states in spinor condensates. <i>Physical Review A</i> , 2001, 63, .                                                                                                   | 2.5  | 22        |
| 74 | A Bogoliubov-de Gennes study of trapped spin-imbalanced unitary Fermi gases. <i>New Journal of Physics</i> , 2011, 13, 055014.                                                                 | 2.9  | 22        |
| 75 | Emergent Universality in a Quantum Tricritical Dicke Model. <i>Physical Review Letters</i> , 2019, 122, 193201.                                                                                | 7.8  | 22        |
| 76 | Emergence of topological and strongly correlated ground states in trapped Rashba spin-orbit-coupled Bose gases. <i>Physical Review A</i> , 2013, 87, .                                         | 2.5  | 21        |
| 77 | Gapless topological Fulde-Ferrell superfluidity induced by an in-plane Zeeman field. <i>Physical Review A</i> , 2014, 90, .                                                                    | 2.5  | 20        |
| 78 | Spin-charge separation in a one-dimensional Fermi gas with tunable interactions. <i>Science</i> , 2022, 376, 1305-1308.                                                                        | 12.6 | 20        |
| 79 | Cavity-induced switching between localized and extended states in a noninteracting Bose-Einstein condensate. <i>Physical Review A</i> , 2011, 84, .                                            | 2.5  | 18        |
| 80 | Photon-Induced Spin-Orbit Coupling in Ultracold Atoms inside Optical Cavity. <i>Atoms</i> , 2015, 3, 182-194.                                                                                  | 1.6  | 18        |
| 81 | Harmonically trapped atoms with spin-orbit coupling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 145301.                                                    | 1.5  | 18        |
| 82 | Radio-frequency spectroscopy of weakly bound molecules in spin-orbit-coupled atomic Fermi gases. <i>Physical Review A</i> , 2012, 86, .                                                        | 2.5  | 16        |
| 83 | Complex quantum gases: spinor Bose-Einstein condensates of trapped atomic vapors. <i>Physica B: Condensed Matter</i> , 2000, 280, 27-31.                                                       | 2.7  | 15        |
| 84 | Collective excitation of a trapped Bose-Einstein condensate with spin-orbit coupling. <i>Physical Review A</i> , 2017, 95, .                                                                   | 2.5  | 15        |
| 85 | Vortex patterns and the critical rotational frequency in rotating dipolar Bose-Einstein condensates. <i>Physical Review A</i> , 2018, 98, .                                                    | 2.5  | 15        |
| 86 | Cooling and trapping of three-level atoms in a bichromatic standing wave. <i>Optics Communications</i> , 1995, 118, 261-268.                                                                   | 2.1  | 14        |
| 87 | Finite-temperature study of Bose-Fermi superfluid mixtures. <i>Physical Review A</i> , 2011, 83, .                                                                                             | 2.5  | 14        |
| 88 | Three-dimensional spin-orbit coupled Fermi gases: Fulde-Ferrell pairing, Majorana fermions, Weyl fermions, and gapless topological superfluidity. <i>Chinese Physics B</i> , 2015, 24, 050502. | 1.4  | 13        |
| 89 | Number-conserving interacting fermion models with exact topological superconducting ground states. <i>Physical Review B</i> , 2017, 96, .                                                      | 3.2  | 13        |
| 90 | Studies of two-species Bose-Einstein condensation. <i>Optics Express</i> , 1998, 2, 330.                                                                                                       | 3.4  | 12        |

| #   | ARTICLE                                                                                                                                                             | IF  | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91  | Theory of a collective atomic recoil laser. <i>Physical Review A</i> , 2001, 63, .                                                                                  | 2.5 | 12        |
| 92  | Coherent population trapping and dynamical instability in coupled atom-molecule condensates. <i>Physical Review A</i> , 2005, 72, .                                 | 2.5 | 12        |
| 93  | Effective $p$ -wave interaction and topological superfluids in $s$ -wave quantum gases. <i>Physical Review A</i> , 2016, 93, .                                      | 2.5 | 12        |
| 94  | Diffraction of a Superfluid Fermi Gas by an Atomic Grating. <i>Physical Review Letters</i> , 2002, 88, 110401.                                                      | 7.8 | 11        |
| 95  | Phase separation in a mixture of a Bose-Einstein condensate and a two-component Fermi gas as a probe of Fermi superfluidity. <i>Physical Review A</i> , 2008, 78, . | 2.5 | 11        |
| 96  | Creating vortices in dipolar spinor condensates via rapid adiabatic passage. <i>Physical Review A</i> , 2009, 79, .                                                 | 2.5 | 11        |
| 97  | Spin-orbit-coupled topological Fulde-Ferrell states of fermions in a harmonic trap. <i>Physical Review A</i> , 2014, 90, .                                          | 2.5 | 11        |
| 98  | Synthetic Landau Levels and Spinor Vortex Matter on a Haldane Spherical Surface with a Magnetic Monopole. <i>Physical Review Letters</i> , 2018, 120, 130402.       | 7.8 | 11        |
| 99  | Spin-exchange-induced exotic superfluids in a Bose-Fermi spinor mixture. <i>Physical Review A</i> , 2019, 100, .                                                    | 2.5 | 11        |
| 100 | Emergence and Disruption of Spin-Charge Separation in One-Dimensional Repulsive Fermions. <i>Physical Review Letters</i> , 2020, 125, 190401.                       | 7.8 | 11        |
| 101 | Feshbach-Resonance-Induced Atomic Filamentation and Quantum Pair Correlation in Atom-Laser-Beam Propagation. <i>Physical Review Letters</i> , 2003, 90, 140401.     | 7.8 | 10        |
| 102 | Macroscopic Atom-Molecule Dark State and Its Collective Excitations in Fermionic Systems. <i>Physical Review Letters</i> , 2007, 99, 250404.                        | 7.8 | 10        |
| 103 | Atom-Molecule Dark State: The Exact Quantum Solution. <i>Physical Review Letters</i> , 2008, 101, 010401.                                                           | 7.8 | 10        |
| 104 | Detection of Fermi pairing via electromagnetically induced transparency. <i>Physical Review A</i> , 2009, 80, .                                                     | 2.5 | 10        |
| 105 | Manipulating the critical temperature for the superfluid phase transition in trapped atomic Fermi gases. <i>Physical Review A</i> , 2002, 65, .                     | 2.5 | 9         |
| 106 | Quantum phase transition of Bose-Einstein condensates on a nonlinear ring lattice. <i>Physical Review A</i> , 2011, 83, .                                           | 2.5 | 9         |
| 107 | Efficient generation of many-body singlet states of spin-1 bosons in optical superlattices. <i>Physical Review A</i> , 2017, 95, .                                  | 2.5 | 9         |
| 108 | Spin-Nematic Vortex States in Cold Atoms. <i>Physical Review Letters</i> , 2020, 125, 195303.                                                                       | 7.8 | 9         |

| #   | ARTICLE                                                                                                                                                        | IF  | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Dynamical Fermionization in One-Dimensional Spinor Quantum Gases. <i>Physical Review Letters</i> , 2021, 127, 023002.                                          | 7.8 | 9         |
| 110 | Properties of Spinor Bose Condensates. <i>Journal of Low Temperature Physics</i> , 2000, 119, 437-460.                                                         | 1.4 | 8         |
| 111 | Quasiparticle spectrum and dynamical stability of an atomic Bose-Einstein condensate coupled to a degenerate Fermi gas. <i>Physical Review A</i> , 2002, 65, . | 2.5 | 8         |
| 112 | Signatures of strong correlations in one-dimensional ultracold atomic Fermi gases. <i>Physical Review A</i> , 2008, 78, .                                      | 2.5 | 8         |
| 113 | Dissipative transport of trapped Bose-Einstein condensates through disorder. <i>Physical Review A</i> , 2010, 82, .                                            | 2.5 | 8         |
| 114 | Spin mixing in spinor Fermi gases. <i>Physical Review A</i> , 2013, 87, .                                                                                      | 2.5 | 8         |
| 115 | Thermodynamic properties of Rashba spin-orbit-coupled Fermi gas. <i>Physical Review A</i> , 2014, 90, .                                                        | 2.5 | 8         |
| 116 | One-body density matrix and momentum distribution of strongly interacting one-dimensional spinor quantum gases. <i>Physical Review A</i> , 2017, 95, .         | 2.5 | 8         |
| 117 | Revivals, damping, and coherence times of atomic wave packets in optical lattices. <i>Physical Review A</i> , 1997, 56, 4331-4334.                             | 2.5 | 7         |
| 118 | Measurement backaction on the quantum spin-mixing dynamics of a spin-1 Bose-Einstein condensate. <i>Physical Review A</i> , 2011, 83, .                        | 2.5 | 7         |
| 119 | Spin-exchange-induced spin-orbit coupling in a superfluid mixture. <i>Physical Review A</i> , 2018, 97, .                                                      | 2.5 | 7         |
| 120 | Spin squeezing in a spin-orbit-coupled Bose-Einstein condensate. <i>Physical Review A</i> , 2020, 102, .                                                       | 2.5 | 7         |
| 121 | Numerical exploration of vortex matter in Bose-Einstein condensates. <i>Mathematics and Computers in Simulation</i> , 2009, 80, 131-138.                       | 4.4 | 5         |
| 122 | Two-component polariton condensate in an optical microcavity. <i>Physical Review A</i> , 2014, 89, .                                                           | 2.5 | 5         |
| 123 | Itinerant chiral ferromagnetism in a trapped Rashba spin-orbit-coupled Fermi gas. <i>Physical Review A</i> , 2016, 93, .                                       | 2.5 | 5         |
| 124 | Building flat-band lattice models from Gram matrices. <i>Physical Review A</i> , 2020, 102, .                                                                  | 2.5 | 5         |
| 125 | Multicriticality and quantum fluctuation in a generalized Dicke model. <i>Physical Review A</i> , 2021, 104, .                                                 | 2.5 | 5         |
| 126 | Semi-classical theory of laser cooling in two dimensions. <i>European Physical Journal D</i> , 1999, 7, 269.                                                   | 1.3 | 4         |



| #   | ARTICLE                                                                                                                                            | IF  | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Two-fermion bound state in a Bose-Einstein condensate. Physical Review A, 2003, 67, .                                                              | 2.5 | 4         |
| 128 | Molecular vortex generated from an atom-molecule dark state. Physical Review A, 2006, 73, .                                                        | 2.5 | 4         |
| 129 | Synthesizing arbitrary lattice models using a single degenerate cavity. Physical Review A, 2019, 100, .                                            | 2.5 | 4         |
| 130 | Bose-Einstein condensates in an atom-optomechanical system with effective global nonuniform interaction. Physical Review A, 2021, 103, .           | 2.5 | 4         |
| 131 | Quantum Control of Motional States of Neutral Atoms: Exploiting the External Degrees of Freedom. Acta Physica Polonica A, 1998, 93, 11-29.         | 0.5 | 4         |
| 132 | Realizing Luttinger liquids in trapped ultra-cold atomic Fermi gases using 2D optical lattices. Physica B: Condensed Matter, 2009, 404, 3320-3323. | 2.7 | 3         |
| 133 | Matter-wave bistability in coupled atom-molecule quantum gases. Physical Review A, 2010, 81, .                                                     | 2.5 | 3         |
| 134 | Artificial topological models based on a one-dimensional spin-dependent optical lattice. Physical Review A, 2017, 95, .                            | 2.5 | 3         |
| 135 | Two-component Bose-Hubbard model in an array of cavity polaritons. Physical Review A, 2015, 91, .                                                  | 2.5 | 2         |
| 136 | Unbound-to-bound transition of two-atom polaritons in an optical cavity. Physical Review A, 2018, 98, .                                            | 2.5 | 2         |
| 137 | Non-Abelian geometric potentials and spin-orbit coupling for periodically driven systems. Physical Review A, 2019, 100, .                          | 2.5 | 2         |
| 138 | Atom Optics - From de Broglie Waves to Heisenberg Ferromagnets. Fortschritte Der Physik, 2002, 50, 664-669.                                        | 4.4 | 1         |
| 139 | Multidimensional laser cooling of broad- and narrow-line $\Lambda$ dipole transitions. Physical Review A, 2005, 72, .                              | 2.5 | 1         |
| 140 | Bose-Einstein condensate in Bloch bands with an off-diagonal periodic potential. Physical Review A, 2019, 100, .                                   | 2.5 | 1         |
| 141 | Strongly interacting two-component coupled Bose gas in optical lattices. Physical Review A, 2021, 104, .                                           | 2.5 | 1         |
| 142 | Coherent Association of Two-Component Atomic Condensate into Heteronuclear Molecular Condensate. , 2007, , .                                       |     | 0         |
| 143 | Coherent association of two-component atomic condensate into heteronuclear molecular condensate. , 2007, , .                                       |     | 0         |
| 144 | Concomitant Larkin-Ovchinnikov states in polarized atomic gases. Journal of Physics: Conference Series, 2011, 273, 012070.                         | 0.4 | 0         |

| #   | ARTICLE                                                                                                                | IF  | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 145 | Field-induced topological pair-density wave states in a multilayer optical lattice. Physical Review A, 2018, 98, .     | 2.5 | 0         |
| 146 | Creating Stable Oscillations from a Fermi Atom- Molecule Dark State. , 2007, , .                                       |     | 0         |
| 147 | Phase Separation in a two-Species Atomic Bose-Einstein Condensate with an Interspecies Feshbach Resonance. , 2009, , . |     | 0         |
| 148 | Dynamical Spin-Orbit Coupling in Cold Atoms Induced by Cavity Field. , 2018, , 279-298.                                |     | 0         |