

# Sadhan Adhikari

## List of Publications by Year in descending order

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330  
papers

6,579  
citations

81743

39  
h-index

118652

62  
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342  
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342  
docs citations

342  
times ranked

1543  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Deep inelastic collision of two-dimensional anisotropic dipolar condensate solitons. Communications in Nonlinear Science and Numerical Simulation, 2022, 106, 106094.                                     | 1.7 | 4         |
| 2  | Supersolid-like solitons in a spin-orbit-coupled spin-2 condensate. Physical Review A, 2022, 105, .   | 1.0 | 11        |
| 3  | Supersolid-like square- and honeycomb-lattice crystallization of droplets in a dipolar condensate. Physical Review A, 2022, 105, .  | 1.0 | 16        |
| 4  | Low-energy three-body collisions between an antiproton $p_{\bar{1}/4}$ and muonic hydrogen atom $H_{\mu}$ . EPJ Web of Conferences, 2022, 262, 01023.   | 0.1 | 0         |
| 5  | Spin-1 spin-orbit- and Rabi-coupled Bose-Einstein condensate solver. Computer Physics Communications, 2021, 259, 107657.  | 3.0 | 20        |
| 6  | Solitons in a Spin-Orbit-Coupled Spin-1 Bose-Einstein Condensate. Brazilian Journal of Physics, 2021, 51, 298-307.  | 0.7 | 3         |
| 7  | Spontaneous spatial order in two-dimensional ferromagnetic spin-orbit coupled uniform spin-1 condensate solitons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 388, 127042. | 0.9 | 7         |
| 8  | Multiring, stripe, and superlattice solitons in a spin-orbit-coupled spin-1 condensate. Physical Review A, 2021, 103, .   | 1.0 | 23        |
| 9  | Supersolid-like states in a two-dimensional trapped spin-orbit-coupled spin-1 condensate. Journal of Physics Condensed Matter, 2021, 33, 265402.  | 0.7 | 5         |
| 10 | OpenMP solver for rotating spin-1 spin-orbit- and Rabi-coupled Bose-Einstein condensates. Computer Physics Communications, 2021, 264, 107926.   | 3.0 | 8         |
| 11 | Symbiotic solitons in quasi-one- and quasi-two-dimensional spin-1 condensates. Physical Review E, 2021, 104, 024207.  | 0.8 | 5         |
| 12 | Spatial order in a two-dimensional spin-orbit-coupled spin-1/2 condensate: superlattice, multi-ring and stripe formation. Journal of Physics Condensed Matter, 2021, 33, 425402.                          | 0.7 | 2         |
| 13 | Vortex-lattice formation in a spin-orbit coupled rotating spin-1 condensate. Journal of Physics Condensed Matter, 2021, 33, 065404.   | 0.7 | 4         |
| 14 | Phase-separated symmetry-breaking vortex-lattice in a binary Bose-Einstein condensate. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 115, 113713.  | 1.3 | 2         |
| 15 | Stable multi-peak vector solitons in spin-orbit coupled spin-1 polar condensates. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 118, 113892.   | 1.3 | 6         |
| 16 | Symmetry-breaking vortex-lattice of a binary superfluid in a rotating bucket. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126105.                                     | 0.9 | 0         |
| 17 | Vortex-lattice in a uniform Bose-Einstein condensate in a box trap. Journal of Physics Condensed Matter, 2019, 31, 275401.  | 0.7 | 7         |
| 18 | Weak coupling to unitarity crossover in Bose-Fermi mixtures: Mixing-demixing transition and spontaneous symmetry breaking in trapped systems. Physical Review A, 2019, 100, .                             | 1.0 | 7         |

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|----|--|-----|-----------|
| 19 | Limitation of the Lee-Huang-Yang interaction in forming a self-bound state in Bose-Einstein condensates. <i>Annals of Physics</i> , 2019, 409, 167917.                 | 1.0 | 5         |
| 20 | Phase-separated vortex-lattice in a rotating binary Bose-Einstein condensate. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 71, 212-219. | 1.7 | 5         |
| 21 | Self-trapped quantum balls in binary Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 055302.                 | 0.6 | 16        |
| 22 | C and Fortran OpenMP programs for rotating Bose-Einstein condensates. <i>Computer Physics Communications</i> , 2019, 240, 74-82.                                       | 3.0 | 22        |
| 23 | Stable controllable giant vortex in a trapped Bose-Einstein condensate. <i>Laser Physics Letters</i> , 2019, 16, 085501.   | 0.6 | 6         |
| 24 | Phase separation of vector solitons in spin-orbit-coupled spin-1 condensates. <i>Physical Review A</i> , 2019, 100, .  | 1.0 | 19        |
| 25 | Three-dimensional vortex-bright solitons in a spin-orbit-coupled spin-1 condensate. <i>Physical Review A</i> , 2018, 97, .   | 1.0 | 44        |
| 26 | Improved effective-range expansions for small and large values of scattering length. <i>European Journal of Physics</i> , 2018, 39, 055403.                            | 0.3 | 5         |
| 27 |  |     |           |

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|----|--|-----|-----------|
| 37 | OpenMP Fortran and C programs for solving the time-dependent Gross-Pitaevskii equation in an anisotropic trap. Computer Physics Communications, 2016, 204, 209-213.  | 3.0 | 52        |
| 38 | OpenMP, OpenMP/MPI, and CUDA/MPI C programs for solving the time-dependent dipolar Gross-Pitaevskii equation. Computer Physics Communications, 2016, 209, 190-196.   | 3.0 | 39        |
| 39 | Elastic collision and molecule formation of spatiotemporal light bullets in a cubic-quintic nonlinear medium. Physical Review E, 2016, 94, 032217.   | 0.8 | 13        |
| 40 | Fractional-charge vortex in a spinor Bose-Einstein condensate. Physical Review A, 2016, 93, .  | 1.0 | 8         |
| 41 | Low temperature HD+ ortho-para-H <sub>2</sub> inelastic scattering of astrophysical interest. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 015203.   | 0.6 | 12        |
| 42 | Stable and mobile two-dimensional dipolar ring-dark-in-bright Bose-Einstein condensate soliton. Laser Physics Letters, 2016, 13, 035502.   | 0.6 | 5         |
| 43 | CUDA programs for solving the time-dependent dipolar Gross-Pitaevskii equation in an anisotropic trap. Computer Physics Communications, 2016, 200, 406-410.  | 3.0 | 51        |
| 44 | Hybrid OpenMP/MPI programs for solving the time-dependent Gross-Pitaevskii equation in a fully anisotropic trap. Computer Physics Communications, 2016, 200, 411-417.  | 3.0 | 61        |
| 45 | Analytic models for the density of a ground-state spinor condensate. Physical Review A, 2015, 92, .  | 1.0 | 23        |
| 46 | Vector solitons in a spin-orbit-coupled spin-2 Bose-Einstein condensate. Physical Review A, 2015, 91, .  | 1.0 | 35        |
| 47 | Stable spatial and spatiotemporal optical soliton in the core of an optical vortex. Physical Review E, 2015, 92, 042926.   | 0.8 | 9         |
| 48 | Three-Body Protonium Formation in a Collision Between a Slow Antiproton ( $\{ar\{m p\}}\{p \hat{A}^-$ ) and Muonic Hydrogen: $\{H\}_{\mu} H^{1/4} \hat{a}^{\infty}$ Low Energy $\{ar\{m p\} + \{m p\} \mu^{-}\}_{1s}$ $\rightarrow \{ar\{m p\} \{m p\}\}_{1s} + \mu^{-}$ $\{p \hat{A}^- + (p \hat{l}^{1/4} -) 1 s \hat{a}^{\infty} (p \hat{A}^- p) 1 s + l^{1/4} -$ Reaction. Few-Body Systems, 2015, 56, 793-800. | 0.7 | 2         |
| 49 | Spontaneous symmetry breaking in a spin-orbit-coupled condensate. Physical Review A, 2015, 91, .   | 1.0 | 22        |
| 50 | Fortran and C programs for the time-dependent dipolar Gross-Pitaevskii equation in an anisotropic trap. Computer Physics Communications, 2015, 195, 117-128.   | 3.0 | 94        |
| 51 | Mobile vector soliton in a spin-orbit coupled spin-1 condensate. Laser Physics Letters, 2015, 12, 045501.  | 0.6 | 39        |
| 52 | Stable matter-wave solitons in the vortex core of a uniform condensate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 165303.   | 0.6 | 1         |
| 53 | Dimensional Reduction and Localization of a Bose-Einstein Condensate in a Quasi-1D Bichromatic Optical Lattice. Acta Physica Polonica A, 2015, 128, 979-982.   | 0.2 | 5         |
| 54 | Stable, mobile, dark-in-bright, dipolar Bose-Einstein-condensate solitons. Physical Review A, 2014, 89, .  | 1.0 | 21        |

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|----|--|-----|-----------|
| 55 | Demixing and symmetry breaking in binary dipolar Bose-Einstein-condensate solitons. Physical Review A, 2014, 89, .   | 1.0 | 13        |
| 56 | Phase separation in a spin-orbit-coupled Bose-Einstein condensate. Physical Review A, 2014, 90, .  | 1.0 | 45        |
| 57 | Self-trapping of a dipolar Bose-Einstein condensate in a double well. Physical Review A, 2014, 89, .   | 1.0 | 12        |
| 58 | Bright dipolar Bose-Einstein-condensate soliton mobile in a direction perpendicular to polarization. Physical Review A, 2014, 90, .  | 1.0 | 7         |
| 59 | Stable and mobile excited two-dimensional dipolar Bose-Einstein condensate solitons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 225304.                              | 0.6 | 5         |
| 60 | Statics and dynamics of a binary dipolar Bose-Einstein condensate soliton. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 015302.  | 0.6 | 14        |
| 61 | Localization of a spin-orbit-coupled Bose-Einstein condensate in a bichromatic optical lattice. Physical Review A, 2014, 89, .   | 1.0 | 54        |
| 62 | Dipolar droplet bound in a trapped Bose-Einstein condensate. Physical Review A, 2013, 87, .  | 1.0 | 12        |
| 63 | Stability of trapped degenerate dipolar Bose and Fermi gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 115301.   | 0.6 | 5         |
| 64 | Stability and collapse of fermions in a binary dipolar boson-fermion mixture. Physical Review A, 2013, 88, .   | 1.0 | 7         |
| 65 | Two-dimensional dipolar Bose-Einstein condensate bright and vortex solitons on a one-dimensional optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 045301. | 0.6 | 20        |
| 66 | Study of a degenerate dipolar Fermi gas of $^{161}\text{Dy}$ atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 235303.   | 0.6 | 3         |
| 67 | Mixing, demixing, and structure formation in a binary dipolar Bose-Einstein condensate. Physical Review A, 2012, 86, .   | 1.0 | 24        |
| 68 | Dipolar Bose-Einstein condensates with large scattering length. Physical Review A, 2012, 85, .   | 1.0 | 4         |
| 69 | A comparative study of the low energy $\text{HD}^+ + \text{H}_2$ rotational excitation/de-excitation collisions and elastic scattering. AIP Advances, 2012, 2, .                                 | 0.6 | 8         |
| 70 | Dipolar Bose-Einstein condensate soliton on a two-dimensional optical lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2200-2205.                        | 0.9 | 21        |
| 71 | C programs for solving the time-dependent Gross-Pitaevskii equation in a fully anisotropic trap. Computer Physics Communications, 2012, 183, 2021-2025.  | 3.0 | 168       |
| 72 | Ultracold collisions between two light indistinguishable diatomic molecules: Elastic and rotational energy transfer in $\text{HD} + \text{HD}$ . Physical Review A, 2012, 85, .                  | 1.0 | 1         |

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|----|--|-----|-----------|
| 73 | Dipolar Bose-Einstein condensate in a ring or in a shell. <i>Physical Review A</i> , 2012, 85, .   | 1.0 | 28        |
| 74 | Anisotropic sound and shock waves in dipolar Bose-Einstein condensate. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 480-483.  | 0.9 | 17        |
| 75 | Numerical and variational solutions of the dipolar Gross-Pitaevskii equation in reduced dimensions. <i>Laser Physics</i> , 2012, 22, 813-820.  | 0.6 | 35        |
| 76 | Localization of a Bose-Fermi mixture in a bichromatic optical lattice. <i>Physical Review A</i> , 2011, 84, .  | 1.0 | 21        |
| 77 | Self-trapping of a binary Bose-Einstein condensate induced by interspecies interaction. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 075301.   | 0.6 | 11        |
| 78 | Dynamics of quasi-one-dimensional bright and vortex solitons of a dipolar Bose-Einstein condensate with repulsive atomic interaction. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 101001. | 0.6 | 37        |
| 79 | Matter-wave localization in a weakly perturbed optical lattice. <i>Physical Review A</i> , 2011, 84, .   | 1.0 | 17        |
| 80 | Localization of collisionally inhomogeneous condensates in a bichromatic optical lattice. <i>Physical Review A</i> , 2011, 83, .   | 1.0 | 19        |
| 81 | Gap solitons in a dipolar Bose-Einstein condensate on a three-dimensional optical lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 121001.  | 0.6 | 24        |
| 82 | Matter-wave localization in a random potential. <i>Physical Review A</i> , 2010, 82, .   | 1.0 | 29        |
| 83 | Dimensional reduction of a binary Bose-Einstein condensate in mixed dimensions. <i>Physical Review A</i> , 2010, 82, .   | 1.0 | 22        |
| 84 | Spatially-antisymmetric localization of matter wave in a bichromatic optical lattice. <i>Laser Physics Letters</i> , 2010, 7, 824-830.   | 0.6 | 17        |
| 85 | Spontaneous symmetry breaking of Bose-Fermi mixtures in double-well potentials. <i>Physical Review A</i> , 2010, 81, .   | 1.0 | 54        |
| 86 | Localization of a Bose-Einstein-condensate vortex in a bichromatic optical lattice. <i>Physical Review A</i> , 2010, 81, .   | 1.0 | 33        |
| 87 | Symmetry breaking in a localized interacting binary Bose-Einstein condensate in a bichromatic optical lattice. <i>Physical Review A</i> , 2010, 81, .  | 1.0 | 17        |
| 88 | Quenching of para-H <sub>2</sub> with an ultracold antihydrogen atom H <sup>-</sup> 1s. <i>Physical Review A</i> , 2010, 81, .   | 1.0 | 3         |
| 89 | Localization of a dipolar Bose-Einstein condensate in a bichromatic optical lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 205305.  | 0.6 | 25        |
| 90 | BCS-BEC crossover in a trapped Fermi super-fluid using a density-functional equation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 085304.   | 0.6 | 17        |

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|-----|--|-----|-----------|
| 91  | Effective nonlinear Schrödinger equations for cigar-shaped and disc-shaped Fermi superfluids at unitarity. <i>New Journal of Physics</i> , 2009, 11, 023011.                               | 1.2 | 45        |
| 92  | Mean-field equations for cigar- and disc-shaped Bose and Fermi superfluids. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 215306.                         | 0.6 | 21        |
| 93  | Universal scaling in a trapped Fermi super-fluid in the BCS-unitarity crossover. <i>Laser Physics Letters</i> , 2009, 6, 901-905.  | 0.6 | 26        |
| 94  | Gap solitons in fermion superfluids. <i>Mathematics and Computers in Simulation</i> , 2009, 80, 648-659.   | 2.4 | 3         |
| 95  | Fortran programs for the time-dependent Gross-Pitaevskii equation in a fully anisotropic trap. <i>Computer Physics Communications</i> , 2009, 180, 1888-1912.                              | 3.0 | 332       |
| 96  | Positronium interaction and its Bose-Einstein condensation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2272-2276.                                    | 0.8 | 5         |
| 97  | Gap solitons in a model of a superfluid fermion gas in optical lattices. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1402-1412.   | 1.3 | 36        |
| 98  | Universal behavior of a trapped Fermi superfluid in the BCS-unitarity crossover. <i>Physical Review A</i> , 2009, 79, .  | 1.0 | 15        |
| 99  | Self-trapping of a Fermi superfluid in a double-well potential in the Bose-Einstein-condensate-unitarity crossover. <i>Physical Review A</i> , 2009, 80, .                                 | 1.0 | 55        |
| 100 | Two-component gap solitons with linear interconversion. <i>Physical Review A</i> , 2009, 79, .   | 1.0 | 30        |
| 101 | Localization of a Bose-Einstein condensate in a bichromatic optical lattice. <i>Physical Review A</i> , 2009, 80, .  | 1.0 | 56        |
| 102 | Josephson oscillation of a superfluid Fermi gas. <i>European Physical Journal D</i> , 2008, 47, 413-419.   | 0.6 | 17        |
| 103 | Superfluid Bose-Fermi mixture from weak coupling to unitarity. <i>Physical Review A</i> , 2008, 78, .  | 1.0 | 94        |
| 104 | Symbiotic gap and semigap solitons in Bose-Einstein condensates. <i>Physical Review A</i> , 2008, 77, .  | 1.0 | 31        |
| 105 | Semiclassical scattering in two dimensions. <i>American Journal of Physics</i> , 2008, 76, 1108-1113.  | 0.3 | 8         |
| 106 | Nonlinear Schrödinger equation for a superfluid Bose gas from weak coupling to unitarity: Study of vortices. <i>Physical Review A</i> , 2008, 77, .  | 1.0 | 46        |
| 107 | Nonlinear Schrödinger equation for a superfluid Fermi gas in the BCS-BEC crossover. <i>Physical Review A</i> , 2008, 77, .   | 1.0 | 67        |
| 108 | Formation of bright solitons and soliton trains in a fermion-fermion mixture by modulational instability. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 2673-2687. | 0.7 | 15        |

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|-----|---|-----|-----------|
| 109 | Tightly bound gap solitons in a Fermi gas. <i>Europhysics Letters</i> , 2007, 79, 50003.  | 0.7 | 44        |
| 110 | Mixing-demixing transition and collapse of a vortex state in a quasi-two-dimensional boson-fermion mixture. <i>Physical Review A</i> , 2007, 75, .  | 1.0 | 19        |
| 111 | One-dimensional superfluid Bose-Fermi mixture: Mixing, demixing, and bright solitons. <i>Physical Review A</i> , 2007, 76, .  | 1.0 | 37        |
| 112 | Superfluid Fermi-Fermi mixture: Phase diagram, stability, and soliton formation. <i>Physical Review A</i> , 2007, 76, .   | 1.0 | 21        |
| 113 | Self-bound droplet of Bose and Fermi atoms in one dimension: Collective properties in mean-field and Tonks-Girardeau regimes. <i>Physical Review A</i> , 2007, 75, .  | 1.0 | 32        |
| 114 | Gap solitons in superfluid boson-fermion mixtures. <i>Physical Review A</i> , 2007, 76, .   | 1.0 | 27        |
| 115 | The BCSâ€“Bose crossover theory. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 453, 37-45.   | 0.6 | 31        |
| 116 | Finite-well potential in the 3D nonlinear SchrÃ¶dinger equation: application to Bose-Einstein condensation. <i>European Physical Journal D</i> , 2007, 42, 279-286.   | 0.6 | 2         |
| 117 | Bright solitons and soliton trains in a fermion-fermion mixture. <i>European Physical Journal D</i> , 2006, 40, 157-160.  | 0.6 | 10        |
| 118 | Simulation of a Stationary Dark Soliton in a Trapped Zero-Temperature Bose-Einstein Condensate. <i>Journal of Low Temperature Physics</i> , 2006, 143, 267-281.   | 0.6 | 7         |
| 119 | Dissipation-managed soliton in a quasi-one-dimensional Bose-Einstein condensate. <i>Laser Physics Letters</i> , 2006, 3, 553-557.   | 0.6 | 10        |
| 120 | Black soliton in a quasi-one-dimensional trapped fermion-fermion mixture. <i>Laser Physics Letters</i> , 2006, 3, 605-611.  | 0.6 | 10        |
| 121 | Dynamical collapse in a degenerate binary fermion mixture using a hydrodynamic model. <i>New Journal of Physics</i> , 2006, 8, 258-258.   | 1.2 | 11        |
| 122 | Miscibility in a degenerate fermionic mixture induced by linear coupling. <i>Physical Review A</i> , 2006, 74, .  | 1.0 | 21        |
| 123 | Mixing-demixing in a trapped degenerate fermion-fermion mixture. <i>Physical Review A</i> , 2006, 73, .   | 1.0 | 24        |
| 124 | Bright solitons in coupled defocusing NLS equation supported by coupling: Application to Boseâ€“Einstein condensation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 346, 179-185. | 0.9 | 102       |
| 125 | Free expansion of fermionic dark solitons in a bosonâ€“fermion mixture. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, 3607-3617.   | 0.6 | 20        |
| 126 | Bound states of attractive Boseâ€“Einstein condensates in shallow traps in two and three dimensions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, 579-591.                            | 0.6 | 11        |



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|-----|--|-----|-----------|
| 127 | Josephson oscillation and induced collapse in an attractive Bose-Einstein condensate. Physical Review A, 2005, 72, .   | 1.0 | 14        |
| 128 | Evolution of a collapsing and exploding Bose-Einstein condensate in different trap symmetries. Physical Review A, 2005, 71, .  | 1.0 | 11        |
| 129 | Fermionic bright soliton in a boson-fermion mixture. Physical Review A, 2005, 72, .  | 1.0 | 72        |
| 130 | Stabilization of a(3+1)-dimensional soliton in a Kerr medium by a rapidly oscillating dispersion coefficient. Physical Review E, 2005, 71, 016611.   | 0.8 | 29        |
| 131 | Mean-field model of jet formation in a collapsing Bose-Einstein condensate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 1185-1194.  | 0.6 | 18        |
| 132 | Mean-field description of a dynamical collapse of a fermionic condensate in a trapped boson-fermion mixture. Physical Review A, 2004, 70, .  | 1.0 | 57        |
| 133 | Stabilization of a light bullet in a layered Kerr medium with sign-changing nonlinearity. Physical Review E, 2004, 70, 036608.   | 0.8 | 22        |
| 134 | Bright Vortex Solitons in Bose Condensates. Few-Body Systems, 2004, 34, 197.   | 0.7 | 4         |
| 135 | Matter-wave interference, Josephson oscillation and its disruption in a Bose-Einstein condensate on an optical lattice. Nuclear Physics A, 2004, 737, 289-293.   | 0.6 | 3         |
| 136 | Stabilization of bright solitons and vortex solitons in a trapless three-dimensional Bose-Einstein condensate by temporal modulation of the scattering length. Physical Review A, 2004, 69, .              | 1.0 | 105       |
| 137 | Mean-field model for Josephson oscillation in a Bose-Einstein condensate on an one-dimensional optical trap. European Physical Journal D, 2003, 25, 161-166.   | 0.6 | 27        |
| 138 | Loss of superfluidity in a Bose-Einstein condensate on an optical lattice via a novel classical phase transition. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 308, 302-307. | 0.9 | 17        |
| 139 | Mean-field model for the interference of matter-waves from a three-dimensional optical trap. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 310, 229-235.                      | 0.9 | 20        |
| 140 | Loss of superfluidity in a Bose-Einstein condensate via forced resonant oscillations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 313, 211-217.                             | 0.9 | 11        |
| 141 | Mean-field model of interaction between bright vortex solitons in Bose-Einstein condensates. New Journal of Physics, 2003, 5, 137-137.   | 1.2 | 45        |
| 142 | Bose-Einstein condensation dynamics in three dimensions by the pseudospectral and finite-difference methods. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2501-2513.             | 0.6 | 111       |
| 143 | The critical number of atoms in an attractive Bose-Einstein condensate on optical plus harmonic traps. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2943-2949.                   | 0.6 | 6         |
| 144 | Resonance in Bose-Einstein condensate oscillation from a periodic variation in scattering length. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 1109-1120.                        | 0.6 | 28        |

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|-----|--|-----|-----------|
| 145 | Expansion of a Bose-Einstein condensate formed on a joint harmonic and one-dimensional optical-lattice potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 3951-3959.  | 0.6 | 9         |
| 146 | Dynamical classical superfluid-insulator transition in a Bose-Einstein condensate on an optical lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 2725-2731.   | 0.6 | 6         |
| 147 | Chaotic oscillation in an attractive Bose-Einstein condensate under an impulsive force. <i>Physical Review A</i> , 2002, 65, .   | 1.0 | 21        |
| 148 | Free expansion of attractive and repulsive Bose-Einstein condensed vortex states. <i>Physical Review A</i> , 2002, 65, .   | 1.0 | 18        |
| 149 | Dynamics of a collapsing and exploding Bose-Einstein condensed vortex state. <i>Physical Review A</i> , 2002, 66, .  | 1.0 | 24        |
| 150 | Mean-field description of collapsing and exploding Bose-Einstein condensates. <i>Physical Review A</i> , 2002, 66, .   | 1.0 | 53        |
| 151 | Low-energy direct muon transfer from H to Ne <sup>10+</sup> , S <sup>16+</sup> and Ar <sup>18+</sup> using the two-state close-coupling approximation to the Faddeev-Hahn-type equation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 935-945. | 0.6 | 10        |
| 152 | Bose-Einstein condensation dynamics from the numerical solution of the Gross-Pitaevskii equation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 2831-2843.  | 0.6 | 118       |
| 153 | Positronium scattering by atoms and molecules at low energies. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2002, 192, 74-82.  | 0.6 | 6         |
| 154 | Mixing of $dx^2-y^2$ and $dxy$ superconducting states for different filling and temperature. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 370, 146-156.  | 0.6 | 4         |
| 155 | Positronium-positronium interaction: resonance, scattering length, and Bose-Einstein condensation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 294, 308-313.  | 0.9 | 24        |
| 156 | Low-energy muon-transfer reaction from hydrogen isotopes to helium isotopes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 300, 417-420.  | 0.9 | 2         |
| 157 | Dynamics of collapsing and exploding Bose-Einstein condensate. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 296, 145-150.  | 0.9 | 18        |
| 158 | Effect of an impulsive force on vortices in a rotating Bose-Einstein condensate. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 301, 333-339.  | 0.9 | 12        |
| 159 | Collapse of attractive Bose-Einstein condensed vortex states in a cylindrical trap. <i>Physical Review E</i> , 2001, 65, 016703.   | 0.8 | 60        |
| 160 | Differential cross sections for elastic and inelastic positronium-hydrogen-atom scattering. <i>Physical Review A</i> , 2001, 63, .   | 1.0 | 14        |
| 161 | Variational calculation of positronium-helium-atom scattering length. <i>Physical Review A</i> , 2001, 64, .   | 1.0 | 11        |
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