

# Sadhan Adhikari

## List of Publications by Year in descending order

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331  
papers

6,579  
citations

81900

39  
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342  
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342  
docs citations

342  
times ranked

1543  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fortran programs for the time-dependent Gross-Pitaevskii equation in a fully anisotropic trap. Computer Physics Communications, 2009, 180, 1888-1912.	7.5	332
2	Quantum scattering in two dimensions. American Journal of Physics, 1986, 54, 362-367.	0.7	210
3	C programs for solving the time-dependent Gross-Pitaevskii equation in a fully anisotropic trap. Computer Physics Communications, 2012, 183, 2021-2025.	7.5	168
4	Bose-Einstein condensation dynamics from the numerical solution of the Gross-Pitaevskii equation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 2831-2843.	1.5	118
5	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.	1.5	111
6	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, .	2.5	105
7	Bright solitons in coupled defocusing NLS equation supported by coupling: Application to Bose-Einstein condensation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 346, 179-185.	2.1	102
8	Superfluid Bose-Fermi mixture from weak coupling to unitarity. Physical Review A, 2008, 78, .	2.5	94
9	Fortran and C programs for the time-dependent dipolar Gross-Pitaevskii equation in an anisotropic trap. Computer Physics Communications, 2015, 195, 117-128.	7.5	94
10	Perturbative Renormalization in Quantum Few-Body Problems. Physical Review Letters, 1995, 74, 487-491.	7.8	85
11	Efimov and Thomas effects and the model dependence of three-particle observables in two and three dimensions. Physical Review A, 1988, 37, 3666-3673.	2.5	75
12	Separable expansion of the matrix with analytic form factors. Physical Review C, 1975, 11, 1133-1140.	2.9	73
13	Fermionic bright soliton in a boson-fermion mixture. Physical Review A, 2005, 72, .	2.5	72
14	Numerical study of the spherically symmetric Gross-Pitaevskii equation in two space dimensions. Physical Review E, 2000, 62, 2937-2944.	2.1	70
15	Electron exchange model potential: Application to positronium-helium scattering. Physical Review A, 1999, 59, 363-370.	2.5	69
16	Numerical solution of the two-dimensional Gross-Pitaevskii equation for trapped interacting atoms. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 265, 91-96.	2.1	69
17	Vortex-bright solitons in a spin-orbit-coupled spin-1 condensate. Physical Review A, 2017, 95, .	2.5	68
18	Nonlinear Schrödinger equation for a superfluid Fermi gas in the BCS-BEC crossover. Physical Review A, 2008, 77, .	2.5	67

#	ARTICLE	IF	CITATIONS
19	Renormalization Group in Potential Scattering. <i>Physical Review Letters</i> , 1995, 74, 4572-4575.	7.8	66
20	Hybrid OpenMP/MPI programs for solving the time-dependent Gross-Pitaevskii equation in a fully anisotropic trap. <i>Computer Physics Communications</i> , 2016, 200, 411-417.	7.5	61
21	Collapse of attractive Bose-Einstein condensed vortex states in a cylindrical trap. <i>Physical Review E</i> , 2001, 65, 016703.	2.1	60
22	Mean-field description of a dynamical collapse of a fermionic condensate in a trapped boson-fermion mixture. <i>Physical Review A</i> , 2004, 70, .	2.5	57
23	Separable operator expansions for the t-matrix. <i>Nuclear Physics A</i> , 1975, 241, 429-442.	1.5	56
24	Localization of a Bose-Einstein condensate in a bichromatic optical lattice. <i>Physical Review A</i> , 2009, 80, .	2.5	56
25	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, .	2.5	55
26	Spontaneous symmetry breaking of Bose-Fermi mixtures in double-well potentials. <i>Physical Review A</i> , 2010, 81, .	2.5	54
27	Localization of a spin-orbit-coupled Bose-Einstein condensate in a bichromatic optical lattice. <i>Physical Review A</i> , 2014, 89, .	2.5	54
28	Mean-field description of collapsing and exploding Bose-Einstein condensates. <i>Physical Review A</i> , 2002, 66, .	2.5	53
29	OpenMP Fortran and C programs for solving the time-dependent Gross-Pitaevskii equation in an anisotropic trap. <i>Computer Physics Communications</i> , 2016, 204, 209-213.	7.5	52
30	CUDA programs for solving the time-dependent dipolar Gross-Pitaevskii equation in an anisotropic trap. <i>Computer Physics Communications</i> , 2016, 200, 406-410.	7.5	51
31	Coupled Bose-Einstein condensate: Collapse for attractive interaction. <i>Physical Review A</i> , 2001, 63, .	2.5	47
32	Nonlinear Schrödinger equation for a superfluid Bose gas from weak coupling to unitarity: Study of vortices. <i>Physical Review A</i> , 2008, 77, .	2.5	46
33	Mean-field model of interaction between bright vortex solitons in Bose-Einstein condensates. <i>New Journal of Physics</i> , 2003, 5, 137-137.	2.9	45
34	Effective nonlinear Schrödinger equations for cigar-shaped and disc-shaped Fermi superfluids at unitarity. <i>New Journal of Physics</i> , 2009, 11, 023011.	2.9	45
35	Phase separation in a spin-orbit-coupled Bose-Einstein condensate. <i>Physical Review A</i> , 2014, 90, .	2.5	45
36	Tightly bound gap solitons in a Fermi gas. <i>Europhysics Letters</i> , 2007, 79, 50003.	2.0	44

#	ARTICLE	IF	CITATIONS
37	Three-dimensional vortex-bright solitons in a spin-orbit-coupled spin-1 condensate. <i>Physical Review A</i> , 2018, 97, .	2.5	44
38	Method for resonances and virtual states: Efimov virtual states. <i>Physical Review C</i> , 1982, 26, 77-82.	2.9	43
39	Scattering of positronium by H, He, Ne, and Ar. <i>Chemical Physics Letters</i> , 2000, 317, 129-134.	2.6	42
40	Trinucleon system in a two-body model: Coulomb effect on bound and scattering states. <i>Physical Review C</i> , 1987, 35, 441-447.	2.9	39
41	Mobile vector soliton in a spin-orbit coupled spin-1 condensate. <i>Laser Physics Letters</i> , 2015, 12, 045501.	1.4	39
42	OpenMP, OpenMP/MPI, and CUDA/MPI C programs for solving the time-dependent dipolar Gross-Pitaevskii equation. <i>Computer Physics Communications</i> , 2016, 209, 190-196.	7.5	39
43	One-dimensional superfluid Bose-Fermi mixture: Mixing, demixing, and bright solitons. <i>Physical Review A</i> , 2007, 76, .	2.5	37
44	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.	1.5	37
45	Gap solitons in a model of a superfluid fermion gas in optical lattices. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1402-1412.	2.8	36
46	Positronium atom scattering by H <sub>2</sub> in a coupled-channel framework. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 1575-1584.	1.5	35
47	Numerical and variational solutions of the dipolar Gross-Pitaevskii equation in reduced dimensions. <i>Laser Physics</i> , 2012, 22, 813-820.	1.2	35
48	Vector solitons in a spin-orbit-coupled spin-2 Bose-Einstein condensate. <i>Physical Review A</i> , 2015, 91, .	2.5	35
49	Cooper pair dispersion relation for weak to strong coupling. <i>Physical Review B</i> , 2000, 62, 8671-8674.	3.2	34
50	New separable expansion for local potentials. <i>Physical Review C</i> , 1974, 10, 1623-1628.	2.9	33
51	Positronium-hydrogen-atom scattering in a five-state model. <i>Physical Review A</i> , 1999, 59, 2058-2064.	2.5	33
52	Localization of a Bose-Einstein-condensate vortex in a bichromatic optical lattice. <i>Physical Review A</i> , 2010, 81, .	2.5	33
53	Efimov effect in the three-nucleon system. <i>Physical Review C</i> , 1982, 26, 83-86.	2.9	32
54	Renormalization in non-relativistic quantum mechanics. <i>Journal of Physics A</i> , 1997, 30, 6553-6564.	1.6	32

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55	Integral equations of scattering in one dimension. American Journal of Physics, 2001, 69, 1010-1013.	0.7	32
56	Self-bound droplet of Bose and Fermi atoms in one dimension: Collective properties in mean-field and Tonks-Girardeau regimes. Physical Review A, 2007, 75, .	2.5	32
57	Model independence of scattering of three identical bosons in two dimensions. Physical Review A, 1993, 47, 1093-1100.	2.5	31
58	The BCSâ€“Bose crossover theory. Physica C: Superconductivity and Its Applications, 2007, 453, 37-45.	1.2	31
59	Symbiotic gap and semigap solitons in Bose-Einstein condensates. Physical Review A, 2008, 77, .	2.5	31
60	Two-component gap solitons with linear interconversion. Physical Review A, 2009, 79, .	2.5	30
61	OpenMP GNU and Intel Fortran programs for solving the time-dependent Grossâ€“Pitaevskii equation. Computer Physics Communications, 2017, 220, 503-506.	7.5	30
62	Stabilization of a(3+1)-dimensional soliton in a Kerr medium by a rapidly oscillating dispersion coefficient. Physical Review E, 2005, 71, 016611.	2.1	29
63	Matter-wave localization in a random potential. Physical Review A, 2010, 82, .	2.5	29
64	Decay Properties of Giant Multipole Resonances: Collective Doorways and Statistical Doorways. Physical Review Letters, 1986, 57, 1998-2001.	7.8	28
65	Positronium impact excitation of hydrogen molecule to B and b states. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, L315-L320.	1.5	28
66	Resonance in Boseâ€“Einstein condensate oscillation from a periodic variation in scattering length. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 1109-1120.	1.5	28
67	Dipolar Bose-Einstein condensate in a ring or in a shell. Physical Review A, 2012, 85, .	2.5	28
68	Method for scattering equations. II. Iterative solution. Physical Review C, 1980, 22, 28-35.	2.9	27
69	Positronium scattering by a hydrogen molecule including exchange. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, L737-L743.	1.5	27
70	Quantum scattering in one dimension. European Journal of Physics, 2000, 21, 435-440.	0.6	27
71	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.	1.3	27
72	Gap solitons in superfluid boson-fermion mixtures. Physical Review A, 2007, 76, .	2.5	27

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73	Method for Lippmann-Schwinger equations. Nuclear Physics A, 1974, 235, 352-360.	1.5	26
74	Universal scaling in a trapped Fermi super-fluid in the BCS-unitarity crossover. Laser Physics Letters, 2009, 6, 901-905.	1.4	26
75	Localization of a dipolar Bose-Einstein condensate in a bichromatic optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 205305.	1.5	25
76	Spurious solutions in few-body equations. Physical Review C, 1979, 19, 616-630.	2.9	24
77	Effect of electron exchange in positronium-hydrogen scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 3147-3154.	1.5	24
78	Numerical study of the coupled time-dependent Gross-Pitaevskii equation: Application to Bose-Einstein condensation. Physical Review E, 2001, 63, 056704.	2.1	24
79	Dynamics of a collapsing and exploding Bose-Einstein condensed vortex state. Physical Review A, 2002, 66, .	2.5	24
80	Positronium-positronium interaction: resonance, scattering length, and Bose-Einstein condensation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 294, 308-313.	2.1	24
81	Mixing-demixing in a trapped degenerate fermion-fermion mixture. Physical Review A, 2006, 73, .	2.5	24
82	Gap solitons in a dipolar Bose-Einstein condensate on a three-dimensional optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 121001.	1.5	24
83	Mixing, demixing, and structure formation in a binary dipolar Bose-Einstein condensate. Physical Review A, 2012, 86, .	2.5	24
84	Low-Temperature Behavior of the Quantum Cluster Coefficients. Physical Review Letters, 1971, 27, 485-487.	7.8	23
85	Analytic models for the density of a ground-state spinor condensate. Physical Review A, 2015, 92, .	2.5	23
86	Multiring, stripe, and superlattice solitons in a spin-orbit-coupled spin-1 condensate. Physical Review A, 2021, 103, .	2.5	23
87	Method for scattering equations. Physical Review C, 1979, 19, 1729-1732.	2.9	22
88	Linear to quadratic crossover of Cooper-pair dispersion relation. Physica C: Superconductivity and Its Applications, 2001, 351, 341-348.	1.2	22
89	Convergent variational calculation of positronium-hydrogen-atom scattering lengths. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, L187-L194.	1.5	22
90	Stabilization of a light bullet in a layered Kerr medium with sign-changing nonlinearity. Physical Review E, 2004, 70, 036608.	2.1	22

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91	Dimensional reduction of a binary Bose-Einstein condensate in mixed dimensions. Physical Review A, 2010, 82, .	2.5	22
92	Spontaneous symmetry breaking in a spin-orbit-coupled condensate. Physical Review A, 2015, 91, .	2.5	22
93	C and Fortran OpenMP programs for rotating Bose-Einstein condensates. Computer Physics Communications, 2019, 240, 74-82.	7.5	22
94	Effective-range theory in two dimensions. Journal of Chemical Physics, 1986, 85, 5580-5583.	3.0	21
95	Low-energy quenching of positronium by helium. Physical Review A, 1999, 59, 4829-4832.	2.5	21
96	Chaotic oscillation in an attractive Bose-Einstein condensate under an impulsive force. Physical Review A, 2002, 65, .	2.5	21
97	Miscibility in a degenerate fermionic mixture induced by linear coupling. Physical Review A, 2006, 74, .	2.5	21
98	Superfluid Fermi-Fermi mixture: Phase diagram, stability, and soliton formation. Physical Review A, 2007, 76, .	2.5	21
99	Mean-field equations for cigar- and disc-shaped Bose and Fermi superfluids. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 215306.	1.5	21
100	Localization of a Bose-Fermi mixture in a bichromatic optical lattice. Physical Review A, 2011, 84, .	2.5	21
101	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.	2.1	21
102	Stable, mobile, dark-in-bright, dipolar Bose-Einstein-condensate solitons. Physical Review A, 2014, 89, .	2.5	21
103	Statics and dynamics of a self-bound matter-wave quantum ball. Physical Review A, 2017, 95, .	2.5	21
104	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.	2.1	20
105	Free expansion of fermionic dark solitons in a boson-fermion mixture. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 3607-3617.	1.5	20
106	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.	1.5	20
107	Spin-1 spin-orbit- and Rabi-coupled Bose-Einstein condensate solver. Computer Physics Communications, 2021, 259, 107657.	7.5	20
108	Four-body Efimov effect in a Born-Oppenheimer model. Physical Review D, 1981, 24, 416-425.	4.7	19

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109	Coordinate-space Faddeev-Hahn-type approach to three-body charge-transfer reactions involving exotic particles. <i>Physical Review A</i> , 2000, 61, .	2.5	19
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, .	2.5	19
111	Localization of collisionally inhomogeneous condensates in a bichromatic optical lattice. <i>Physical Review A</i> , 2011, 83, .	2.5	19
112	Phase separation of vector solitons in spin-orbit-coupled spin-1 condensates. <i>Physical Review A</i> , 2019, 100, .	2.5	19
113	The Phillips and the Girard-Fuda plot for the trinucleon system. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983, 132, 257-259.	4.1	18
114	Scaling in the BCS to Bose crossover problem in different partial waves. <i>Physical Review B</i> , 1997, 55, 1110-1113.	3.2	18
115	Free expansion of attractive and repulsive Bose-Einstein condensed vortex states. <i>Physical Review A</i> , 2002, 65, .	2.5	18
116	Dynamics of collapsing and exploding Bose-Einstein condensate. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 296, 145-150.	2.1	18
117	Mean-field model of jet formation in a collapsing Bose-Einstein condensate. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 1185-1194.	1.5	18
118	Separable expansion of the t-matrix in the 3S1-3D1 channel. <i>Nuclear Physics A</i> , 1975, 251, 297-304.	1.5	17
119	Loss of superfluidity in a Bose-Einstein condensate on an optical lattice via a novel classical phase transition. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 308, 302-307.	2.1	17
120	Josephson oscillation of a superfluid Fermi gas. <i>European Physical Journal D</i> , 2008, 47, 413-419.	1.3	17
121	Spatially-antisymmetric localization of matter wave in a bichromatic optical lattice. <i>Laser Physics Letters</i> , 2010, 7, 824-830.	1.4	17
122	Symmetry breaking in a localized interacting binary Bose-Einstein condensate in a bichromatic optical lattice. <i>Physical Review A</i> , 2010, 81, .	2.5	17
123	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.	1.5	17
124	Matter-wave localization in a weakly perturbed optical lattice. <i>Physical Review A</i> , 2011, 84, .	2.5	17
125	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.	2.1	17
126	Positron-helium scattering in the close coupling approach. <i>Chemical Physics Letters</i> , 1995, 239, 344-348.	2.6	16

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127	Stability and collapse of a coupled Bose-Einstein condensate. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 281, 265-271.	2.1	16
128	Self-trapped quantum balls in binary Bose-Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 055302.	1.5	16
129	Supersolid-like square- and honeycomb-lattice crystallization of droplets in a dipolar condensate. Physical Review A, 2022, 105, .	2.5	16
130	Singularities in three-body final-state amplitudes. Physical Review D, 1974, 9, 1467-1475.	4.7	15
131	Iterative solution of multichannel three-body equations. Physical Review C, 1980, 22, 2359-2368.	2.9	15
132	Robust Scaling in Fragmentation from $d = 1$ to 5. Europhysics Letters, 1992, 18, 119-124.	2.0	15
133	The effect of positronium formation in $e^+i^-Li$ and $e^+i^-Na$ scattering. Chemical Physics Letters, 1994, 222, 302-308.	2.6	15
134	Positron-helium scattering at medium energies. Chemical Physics Letters, 1996, 262, 460-464.	2.6	15
135	Close-coupling calculations of positronium formation in positron-helium scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 3057-3063.	1.5	15
136	Formation of bright solitons and soliton trains in a fermion-fermion mixture by modulational instability. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 2673-2687.	2.1	15
137	Universal behavior of a trapped Fermi superfluid in the BCS-unitarity crossover. Physical Review A, 2009, 79, .	2.5	15
138	Three-body collapse for Tabakin potentials and the Thomas effect. Physical Review C, 1992, 46, 471-476.	2.9	14
139	Resonance in positron - helium scattering at medium energy. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, L81-L85.	1.5	14
140	Phase transition from a $dx^2 + y^2$ to $dx^2 + y^2 + idxy$ superconductor. Physica C: Superconductivity and Its Applications, 1998, 309, 251-256.	1.2	14
141	Differential cross sections for elastic and inelastic positronium-hydrogen-atom scattering. Physical Review A, 2001, 63, .	2.5	14
142	Josephson oscillation and induced collapse in an attractive Bose-Einstein condensate. Physical Review A, 2005, 72, .	2.5	14
143	Statics and dynamics of a binary dipolar Bose-Einstein condensate soliton. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 015302.	1.5	14
144	Correlation among low-energy three-nucleon observables. Physical Review C, 1984, 30, 31-34.	2.9	13

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145	Unified formulation of variational approaches and separable expansions for the solution of scattering equations. <i>Physical Review C</i> , 1987, 36, 1275-1285.	2.9	13
146	Lattice discretization in quantum scattering. <i>Journal of Physics A</i> , 1996, 29, 7157-7163.	1.6	13
147	Demixing and symmetry breaking in binary dipolar Bose-Einstein-condensate solitons. <i>Physical Review A</i> , 2014, 89, .	2.5	13
148	Elastic collision and molecule formation of spatiotemporal light bullets in a cubic-quintic nonlinear medium. <i>Physical Review E</i> , 2016, 94, 032217.	2.1	13
149	Iterative solution of bound-state equations. <i>Physical Review C</i> , 1981, 24, 1186-1190.	2.9	12
150	Alternative to Padé technique for solving scattering integral equations. <i>Physical Review C</i> , 1981, 24, 43-55.	2.9	12
151	Nonuniqueness of solutions to the Lippmann-Schwinger equation in a soluble three-body model. <i>Physical Review A</i> , 1985, 31, 2005-2019.	2.5	12
152	Universal scaling in BCS superconductivity in three dimensions in non-s waves. <i>European Physical Journal B</i> , 1998, 2, 31-36.	1.5	12
153	Two phase transitions in $(dx^2 + y^2 + is)$ -wave superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 322, 37-44.	1.2	12
154	Positronium-hydrogen atom elastic scattering at medium energies. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, L761-L765.	1.5	12
155	Dynamical calculation of direct muon-transfer rates from thermalized muonic hydrogen to $C_6^+$ and $O_8^+$ . <i>Physical Review A</i> , 2000, 62, .	2.5	12
156	Stability and collapse of a hybrid Bose-Einstein condensate of atoms and molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 4231-4241.	1.5	12
157	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.	2.1	12
158	Dipolar droplet bound in a trapped Bose-Einstein condensate. <i>Physical Review A</i> , 2013, 87, .	2.5	12
159	Self-trapping of a dipolar Bose-Einstein condensate in a double well. <i>Physical Review A</i> , 2014, 89, .	2.5	12
160	Low temperature HD+ ortho- $H_2$ inelastic scattering of astrophysical interest. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 015203.	1.5	12
161	Parametrization of the Three-Body $D$ Function. II. <i>Physical Review C</i> , 1972, 6, 1484-1495.	2.9	11
162	Application of renormalization to potential scattering. <i>Journal of Physics A</i> , 1997, 30, 4687-4700.	1.6	11

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163	Differential and partial cross sections of elastic and inelastic positronium-helium-atom scattering. Physical Review A, 2000, 62, .	2.5	11
164	Variational calculation of positronium-helium-atom scattering length. Physical Review A, 2001, 64, .	2.5	11
165	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.	2.1	11
166	Bound states of attractive Bose-Einstein condensates in shallow traps in two and three dimensions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 579-591.	1.5	11
167	Evolution of a collapsing and exploding Bose-Einstein condensate in different trap symmetries. Physical Review A, 2005, 71, .	2.5	11
168	Dynamical collapse in a degenerate binary fermion mixture using a hydrodynamic model. New Journal of Physics, 2006, 8, 258-258.	2.9	11
169	Self-trapping of a binary Bose-Einstein condensate induced by interspecies interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 075301.	1.5	11
170	A self-bound matter-wave boson-fermion quantum ball. Laser Physics Letters, 2018, 15, 095501.	1.4	11
171	Supersolid-like solitons in a spin-orbit-coupled spin-2 condensate. Physical Review A, 2022, 105, .	2.5	11
172	Estimate of the triton asymptotic $D_0/S$ ratio. Physical Review C, 1988, 37, 364-369.	2.9	10
173	Anomalies of the Schwinger variational phase shifts. Physical Review A, 1990, 42, 6-9.	2.5	10
174	Low-energy behavior of few-particle scattering amplitudes in two dimensions. Physical Review A, 1992, 46, 3967-3977.	2.5	10
175	Universal scaling in Bardeen-Cooper-Schrieffer superconductivity in two dimensions in non-s waves. Journal of Physics Condensed Matter, 1998, 10, 135-144.	1.8	10
176	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. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 935-945.	1.5	10
177	Bright solitons and soliton trains in a fermion-fermion mixture. European Physical Journal D, 2006, 40, 157-160.	1.3	10
178	Dissipation-managed soliton in a quasi-one-dimensional Bose-Einstein condensate. Laser Physics Letters, 2006, 3, 553-557.	1.4	10
179	Black soliton in a quasi-one-dimensional trapped fermion-fermion mixture. Laser Physics Letters, 2006, 3, 605-611.	1.4	10
180	Statics and dynamics of a self-bound dipolar matter-wave droplet. Laser Physics Letters, 2017, 14, 025501.	1.4	10

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181	Alternative interpretations of the many-particle Lippmann-Schwinger equation. <i>Physical Review C</i> , 1986, 34, 1-13.	2.9	9
182	Unified treatment of bound-state and scattering problems. <i>Physical Review C</i> , 1988, 37, 41-44.	2.9	9
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