Spinor Bose gases: Symmetries, magnetism, and quantu

Reviews of Modern Physics
85, 1191-1244
DOI: 10.1103/revmodphys.85.1191

Citation Report

#	Article	IF	Citations
1	Universality and Bose-Einstein Condensation: Perspectives on Recent Work. , 0, , 3-21.		0
2	Twenty Years of Atomic Quantum Gases: 1995-2015. , 0, , 38-56.		0
3	Quantum Turbulence in Atomic Bose-Einstein Condensates. , 0, , 348-370.		0
4	Spinor-Dipolar Aspects of Bose-Einstein Condensation. , 0, , 371-386.		0
5	Direct observation of effective ferromagnetic domains of cold atoms in a shaken optical lattice. Nature Physics, 2013, 9, 769-774.	6.5	206
6	Spin fragmentation of Boseâ€“Einstein condensates with antiferromagnetic interactions. New Journal of Physics, 2013, 15, 113039.	1.2	18
7	Spin-echo-based magnetometry with spinor Bose-Einstein condensates. Physical Review A, 2013, 88, .	1.0	38
8	Generation of Massive Entanglement through an Adiabatic Quantum Phase Transition in a Spinor Condensate. Physical Review Letters, 2013, 111, 180401.	2.9	70
9	Dynamic Stabilization of a Quantum Many-Body Spin System. Physical Review Letters, 2013, 111, 090403.	2.9	48
10	Simple and efficient all-optical production of spinor condensates. Physical Review A, 2013, 88, .	1.0	18
11	Nonequilibrium Quantum Magnetism in a Dipolar Lattice Gas. Physical Review Letters, 2013, 111, 185305.	2.9	196
12	Matter-wave interference versus spontaneous pattern formation in spinor Bose-Einstein condensates. Physical Review A, 2013, 88, .	1.0	2
13	Edge-state instabilities of bosons in a topological band. Physical Review A, 2013, 88, .	1.0	56
14	Density-functional theory for the spin-1 bosons in a one-dimensional harmonic trap. Physical Review A, 2013, 88, .	1.0	8
15	Spin turbulence with small spin magnitude in spin-1 spinor Bose-Einstein condensates. Physical Review A, 2013, 88, .	1.0	12
16	Hawking radiation in a two-component Bose-Einstein condensate. Europhysics Letters, 2013, 103, 60001.	0.7	7
17	Exact analytical soliton solutions in dipolar Bose-Einstein condensates. European Physical Journal D, 2014, 68, 1.	0.6	11
18	Renormalization group analysis of the competition between distinct order parameters. Physical Review D, 2014, 90, .	1.6	6

#	Article	IF	Citations
19	Improving observability of the Einsteinâ€“de Haas effect in a rubidium condensate. Physical Review A, 2014, 90, .	1.0	4
20	Dispersion properties of transverse waves in electrically polarized BECs. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 225301.	0.6	5
21	A Bose-condensed, simultaneous dual-species Machâ€“Zehnder atom interferometer. New Journal of Physics, 2014, 16, 073035.	1.2	31
22	Metastable spin textures and Nambu-Goldstone modes of a ferromagnetic spin-1 Bose-Einstein condensate confined in a ring trap. Physical Review A, 2014, 90, .	1.0	4
23	Simulating systems of itinerant spin-carrying particles using arrays of superconducting qubits and resonators. New Journal of Physics, 2014, 16, 113006.	1.2	8
24	Goldstone-mode instability leading to fragmentation in a spinor Bose-Einstein condensate. Physical Review A, 2014, 89, .	1.0	16
25	Nonlinear polarization waves in a two-component Bose-Einstein condensate. Physical Review A, 2014, 89, .	1.0	27
26	Quantum phase transitions in networks of Lipkin-Meshkov-Glick models. Physical Review E, 2014, 90, 042141.	0.8	7
27	Topological influence and backaction between topological excitations. Physical Review A, 2014, 89, .	1.0	6
28	Spiral spin textures of a bosonic Mott insulator with SU(3) spin-orbit coupling. Physical Review B, 2014, 90, .	1.1	15
29	Coarsening Dynamics of Binary Bose Condensates. Physical Review Letters, 2014, 113, 095702.	2.9	62
30	Three-Body Interacting Bosons in Free Space. Physical Review Letters, 2014, 112, 103201.	2.9	69
31	Critical quasienergy states in driven many-body systems. Physical Review A, 2014, 90, .	1.0	7
32	Equilibration of a finite-temperature binary Bose gas formed by population transfer. Physical Review A, 2014, 90, .	1.0	3
33	Universality of phase transition dynamics: Topological defects from symmetry breaking. International Journal of Modern Physics A, 2014, 29, 1430018.	0.5	244
34	Stochastic projected Gross-Pitaevskii equation for spinor and multicomponent condensates. Physical Review A, 2014, 90, .	1.0	26
35	Spin squeezing and entanglement for an arbitrary spin. Physical Review A, 2014, 89, .	1.0	47
36	Mapping the phase diagram of spinor condensates via adiabatic quantum phase transitions. Physical Review A, 2014, 90, .	1.0	28

#	Article	IF	Citations
37	Topological aspects in spinor Boseâ€“Einstein condensates. Reports on Progress in Physics, 2014, 77, 122401.	8.1	38
38	Dynamics in spinor condensates tuned by a microwave dressing field. Physical Review A, 2014, 89, .	1.0	66
39	Multichannel quantum-defect theory for ion-atom interactions. Physical Review A, 2014, 89, .	1.0	17
40	Dipolar atomic spin ensembles in a double-well potential. Physical Review A, 2014, 90, .	1.0	10
41	Creation and dynamics of two-dimensional skyrmions in antiferromagnetic spin-1 Bose-Einstein condensates. Physical Review A, 2014, 89, .	1.0	9
42	Representation of Berry Phase by the Trajectories of Majorana Stars. Physical Review Letters, 2014, 113, 240403.	2.9	43
43	Quenched binary Bose-Einstein condensates: Spin-domain formation and coarsening. Physical Review A, 2014, 89, .	1.0	50
44	Spin dynamics in a two-dimensional quantum gas. Physical Review A, 2014, 89, .	1.0	7
45	Relaxation Dynamics of an Isolated Large-Spin Fermi Gas Far from Equilibrium. Physical Review X, 2014, 4, .	2.8	10
46	Correlated spontaneous symmetry breaking induced by zero-point fluctuations in a quantum mixture. Physical Review A, 2014, 89, .	1.0	2
47	Evidence for a Bose-Einstein condensate of excitons. Europhysics Letters, 2014, 107, 10012.	0.7	82
48	Elementary Excitations of Antiferromagnetic Spin-1 Bosons in an Optical Lattice. Journal of Low Temperature Physics, 2014, 175, 236-242.	0.6	4
49	Detecting Multiparticle Entanglement of Dicke States. Physical Review Letters, 2014, 112, 155304.	2.9	172
50	Manifold Mixing in the Temporal Evolution of a Spin-1 Spinor Bose-Einstein Condensate. Physical Review Letters, 2014, 112, 160402.	2.9	6
51	Spinor Bose-Einstein condensates of positronium. Physical Review A, 2014, 89, .	1.0	18
52	Turbulence in binary Bose-Einstein condensates generated by highly nonlinear Rayleigh-Taylor and Kelvin-Helmholtz instabilities. Physical Review A, 2014, 89, .	1.0	20
53	Giant Spin Oscillations in an Ultracold Fermi Sea. Science, 2014, 343, 157-160.	6.0	46
54	Performing Mathematical Operations with Metamaterials. Science, 2014, 343, 160-163.	6.0	757

#	Article	IF	Citations
55	Static structure factors for a spin-1 Bose-Einstein condensate. Physical Review A, 2014, 89, .	1.0	15
56	Coherent Magnon Optics in a Ferromagnetic Spinor Bose-Einstein Condensate. Physical Review Letters, 2014, 113, 155302.	2.9	50
57	Turbulence in quantum fluids. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P02013.	0.9	9
58	Three-Body Physics in Strongly Correlated Spinor Condensates. Physical Review Letters, 2014, 113, 045302.	2.9	10
59	Fluctuations of spinor Bose-Einstein condensates. Physical Review A, 2014, 90, .	1.0	6
60	Permutation Symmetry in Spinor Quantum Gases: Selection Rules, Conservation Laws, and Correlations. Physical Review Letters, 2014, 113, 200406.	2.9	14
61	Anderson Tower of States and Nematic Order of Spin-1 Bosonic Atoms on a 2D Lattice. Physical Review Letters, 2014, 113, 200402.	2.9	10
62	Vector rogue waves and dark-bright boomeronic solitons in autonomous and nonautonomous settings. Physical Review E, 2014, 90, 042912.	0.8	14
63	Revealing Single-Trap Condensate Fragmentation by Measuring Density-Density Correlations after Time of Flight. Physical Review Letters, 2014, 113, 140404.	2.9	30
64	Spin-superflow turbulence in spin-1 ferromagnetic spinor Bose-Einstein condensates. Physical Review A, 2014, 90, .	1.0	6
65	U(3) artificial gauge fields for cold atoms. Physical Review A, 2014, 90, .	1.0	11
66	Coleman-Weinberg mechanism in spinor Bose-Einstein condensates. Europhysics Letters, 2014, 107, 30004.	0.7	0
67	Effective Lagrangian for Nonrelativistic Systems. Physical Review X, 2014, 4, .	2.8	62
68	Fractional energy states of strongly interacting bosons in one dimension. Europhysics Letters, 2014, 107, 60003.	0.7	33
69	Thermodynamics of a spin-1 Bose gas with fixed magnetization. Physical Review A, 2014, 90, .	1.0	10
70	Strong coupling study of spin-1 bosons in square and triangular optical lattices. Journal of Physics: Conference Series, 2014, 497, 012024.	0.3	1
71	Spin turbulence in spinor Bose-Einstein condensates. Journal of Physics: Conference Series, 2014, 497, 012002.	0.3	3
72	Sum rules for spin-1/2quantum gases in states with well-defined spins: Spin-independent interactions and spin-dependent external fields. Physical Review A, 2015, 91, .	1.0	7

#	Article	IF	Citations
73	Metastability, excitations, fluctuations, and multiple-swallowtail structures of a superfluid in a Bose-Einstein condensate in the presence of a uniformly moving defect. Physical Review A, 2015, 91, .	1.0	14
74	Scaling of fluctuations in a trapped binary condensate. Physical Review A, 2015, 91, .	1.0	7
75	Topological bands with a Chern number<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>C</mml:mi><mml:mo>=</mml:mo><mml:mn>2</mml:mn></mml:mr dipolar exchange interactions. Physical Review A, 2015, 91, .	1.0	52
76	Tuning the Chern number and Berry curvature with spin-orbit coupling and magnetic textures. Physical Review A, 2015, 91, .	1.0	2
77	Route to non-Abelian quantum turbulence in spinor Bose-Einstein condensates. Physical Review A, 2015, 91, .	1.0	17
78	Universal measurement-based quantum computation with spin-2 Affleck-Kennedy-Lieb-Tasaki states. Physical Review A, 2015, 92, .	1.0	32
79	Topological condensate in an interaction-induced gauge potential. Physical Review A, 2015, 92, .	1.0	14
80	Localizing spin dynamics in a spin-1 Bose-Einstein condensate via magnetic pulses. Physical Review A, 2015, 92, .	1.0	2
81	Coherent zero-field magnetization resonance in a dipolar spin-1 Bose-Einstein condensate. Physical Review A, 2015, 92, .	1.0	13
82	Analytic models for the density of a ground-state spinor condensate. Physical Review A, 2015, 92, .	1.0	23
83	Generation and storage of spin-nematic squeezing in a spinor Bose-Einstein condensate. Physical Review A, 2015, 92, .	1.0	14
84	Sum rules forspinâ^'1/2quantum gases in states with well-defined spins. II. Spin-dependent two-body interactions. Physical Review A, 2015, 92, .	1.0	2
85	Asymptotic expressions for the hyperfine populations in the ground state of spin-1 condensates against a magnetic field. Physical Review A, 2015, 92, .	1.0	2
86	Anticoherence of spin states with point-group symmetries. Physical Review A, 2015, 92, .	1.0	19
87	Magnetic tensor gradiometry using Ramsey interferometry of spinor condensates. Physical Review A, 2015, 92, .	1.0	17
88	Nonequilibrium kinetic theory for trapped binary condensates. Physical Review A, 2015, 92, .	1.0	5
89	Two-state Bogoliubov theory of a molecular Bose gas. Physical Review A, 2015, 92, .	1.0	1
90	Lower bound for the hyperfine populations of spin-2 condensates against a magnetic field under the single-spatial-mode approximation. Physical Review A, 2015, 92, .	1.0	0

#	Article	IF	Citations
91	Characterization of symmetry-protected topological phases in polymerized models by trajectories of Majorana stars. Physical Review B, 2015, 91, .	1.1	24
92	Competing exotic quantum phases of spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mstyle scriptlevel="0" displaystyle="false"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:math>ultracold lattice bosons with extended spin interactions. Physical Review B, 2015, 92, .	1.1	3
93	Antiferromagnetic Spinor Condensates in a Two-Dimensional Optical Lattice. Physical Review Letters, 2015, 114, 225302.	2.9	30
94	Half-Quantum Vortices in an Antiferromagnetic Spinor Bose-Einstein Condensate. Physical Review Letters, 2015, 115, 015301.	2.9	92
95	Hybrid Matter-Waveâ€“Microwave Solitons Produced by the Local-Field Effect. Physical Review Letters, 2015, 115, 023901.	2.9	36
96	Stable Dilute Supersolid of Two-Dimensional Dipolar Bosons. Physical Review Letters, 2015, 115, 075303.	2.9	92
97	Selective Population of Edge States in a 2D Topological Band System. Physical Review Letters, 2015, 115, 245302.	2.9	38
98	Realization of a Quantum Integer-Spin Chain with Controllable Interactions. Physical Review X, 2015, 5, .	2.8	93
99	Spontaneous Spin Bifurcations and Ferromagnetic Phase Transitions in a Spinor Exciton-Polariton Condensate. Physical Review X, 2015, 5, .	2.8	73
100	Bogoliubov-wave turbulence in Bose-Einstein condensates. Physical Review A, 2015, 91, .	1.0	24
101	Fragmented many-body states of a spin-2 Bose gas. Physical Review A, 2015, 91, .	1.0	11
102	Phase diagram and spin mixing dynamics in spinor condensates with a microwave dressing field. Scientific Reports, 2015, 5, 14464.	1.6	4
103	Controlling and probing non-abelian emergent gauge potentials in spinor Bose-Fermi mixtures. Nature Communications, 2015, 6, 8135.	5.8	10
104	Unitary symmetry and generalization of the Landauâ€“Lifshitz equation for high-spin magnets. Low Temperature Physics, 2015, 41, 713-729.	0.2	1
106	Laser cooling and trapping of atoms. , 0, , 498-523.		0
107	The nonlinear Dirac equation in Boseâ€“Einstein condensates: superfluid fluctuations and emergent theories from relativistic linear stability equations. New Journal of Physics, 2015, 17, 093037.	1.2	10
108	Spontaneous $mathcal{PT}$ symmetry breaking of a ferromagnetic superfluid in a gradient field. Europhysics Letters, 2015, 111, 66001.	0.7	3
109	Three dimensional nonlinear magnetic AdS solutions through topological defects. European Physical Journal C, 2015, 75, 1.	1.4	23

#	Article	IF	Citations
110	Scanning electron microscopy of cold gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 122001.	0.6	11
111	Waves of spin current in magnetized dielectrics. International Journal of Modern Physics B, 2015, 29, 1550077.	1.0	11
112	Seeing Spin Dynamics in Atomic Gases. , 2015, , 61-87.		1
113	An Inequality for Spinor Boseâ€“Einstein Condensates. Journal of the Physical Society of Japan, 2015, 84, 025001.	0.7	1
114	Microscopic theory of phase transitions in a critical region. Physica Scripta, 2015, 90, 108002.	1.2	13
115	Spin-Mixing Interferometry with Bose-Einstein Condensates. Physical Review Letters, 2015, 115, 163002.	2.9	79
116	Coherent spin dynamics in spin-imbalanced ferromagnetic spinor condensates. Chinese Physics B, 2015, 24, 010304.	0.7	1
117	Classification of nematic order in 2â€‰+â€‰1 dimensions: Dislocation melting and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>O</mml:mi></mml:math>(2)/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Z</mml:mi><mml:mi>N</mml:mi></mml:msub></mml:m gauge theory. Physical Review B, 2015, 91, .	1.1	13
118	Topological defects and inhomogeneous spin patterns induced by the quadratic Zeeman effect in spin-1 Bose-Einstein condensates. Physical Review A, 2015, 91, .	1.0	12
119	Dark-bright solitons in coupled nonlinear SchrÃ¶dinger equations with unequal dispersion coefficients. Physical Review E, 2015, 91, 012924.	0.8	21
120	Sound waves and modulational instabilities on continuous-wave solutions in spinor Bose-Einstein condensates. Physical Review A, 2015, 91, .	1.0	10
121	Counting rule of Nambuâ€“Goldstone modes for internal and spacetime symmetries: Bogoliubov theory approach. Annals of Physics, 2015, 354, 101-156.	1.0	33
122	Superfluidity of a pure spin current in ultracold Bose gases. Physical Review A, 2015, 91, .	1.0	15
123	Effects of Fermion Exchange on the Polarization of Exciton Condensates. Physical Review Letters, 2015, 114, 090401.	2.9	25
124	Spontaneous Quantum Hall Effect in an Atomic Spinor Bose-Fermi Mixture. Physical Review Letters, 2015, 114, 125303.	2.9	9
125	Coherent Heteronuclear Spin Dynamics in an Ultracold Spinor Mixture. Physical Review Letters, 2015, 114, 255301.	2.9	30
126	Superfluidity of Boseâ€”Einstein condensates in ultracold atomic gases. Chinese Physics B, 2015, 24, 050507.	0.7	8
127	Spin-1 condensates at thermal equilibrium: A SU(3) coherent state approach. Europhysics Letters, 2015, 110, 26001.	0.7	7

#	Article	IF	Citations
128	Upper bound of one-magnon excitation and lower bound of effective mass for ferromagnetic spinor Bose and Fermi gases. Physical Review A, 2015, 91, .	1.0	4
129	Striped ferronematic ground states in a spin-orbit-coupled<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math> gas. Physical Review A, 2015, 91, .	1.0	12
130	Kinetic model of trapped finite-temperature binary condensates. Physical Review A, 2015, 91, .	1.0	11
131	Quasi-Nambu-Goldstone modes in nonrelativistic systems. Physical Review D, 2015, 91, .	1.6	18
132	Spontaneous symmetry breaking in a spin-orbit-coupled<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>f</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math> condensate. Physical Review A, 2015, 91, .	1.0	22
133	Spinor Bose gas in an elongated trap. Physical Review A, 2015, 91, .	1.0	1
134	Coherent spin-mixing dynamics in thermal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">Rb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>87</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>spin-1 and spin-2 gases. Physical Review A, 2015, 91, .	1.0	11
135	Hydrodynamic modes of partially condensed Bose mixtures. Physical Review A, 2015, 91, .	1.0	15
136	Modulational Instability of Spinor Condensates in an Optical Lattice*. Communications in Theoretical Physics, 2015, 63, 565-568.	1.1	1
137	Simulation of two-flavor symmetry-locking phases in ultracold fermionic mixtures. Europhysics Letters, 2015, 109, 50002.	0.7	6
138	Static and dynamic properties of interacting spin-1 bosons in an optical lattice. Physical Review A, 2015, 91, .	1.0	20
139	Chiral Mott insulators, Meissner effect, and Laughlin states in quantum ladders. Physical Review B, 2015, 91, .	1.1	65
141	On the Appearance of Families of Efimov States in the Spinor Three-Body Problem. EPJ Web of Conferences, 2016, 113, 02003.	0.1	2
142	Universal few-body physics in resonantly interacting spinor condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 064012.	0.6	4
143	Simulating infinite vortex lattices in superfluids. Journal of Physics Condensed Matter, 2016, 28, 285201.	0.7	6
144	Boseâ€“Einstein condensation in large time-averaged optical ring potentials. New Journal of Physics, 2016, 18, 035003.	1.2	67
145	Evidence for correlated states in a cluster of bosons with Rashba spin-orbit coupling. New Journal of Physics, 2016, 18, 025002.	1.2	2
146	Remnant Geometric Hall Response in a Quantum Quench. Physical Review Letters, 2016, 117, 235302.	2.9	61

#	Article	IF	Citations
147	Quantum phase diagrams and time-of-flight pictures of spin-1 Bose systems in honeycomb optical lattices. Laser Physics, 2016, 26, 095501.	0.6	3
148	Preserving coherent spin and squeezed spin states of a spin-1 Bose-Einstein condensate with rotary echoes. Physical Review A, 2016, 94, .	1.0	8
149	Spin-dipole oscillation and polarizability of a binary Bose-Einstein condensate near the miscible-immiscible phase transition. Physical Review A, 2016, 94, .	1.0	30
150	Effects of Landau-Lifshitz-Gilbert damping on domain growth. Physical Review E, 2016, 94, 062215.	0.8	2
151	Ground states of a Bose-Einstein Condensate in a one-dimensional laser-assisted optical lattice. Scientific Reports, 2016, 6, 37679.	1.6	7
152	DUPLICATE: Solitons in coupled nonlinear SchrÃ¶dinger models: A survey of recent developments. Reviews in Physics, 2016, , .	4.4	0
153	Composition of many spins, random walks and statistics. Nuclear Physics B, 2016, 913, 664-693.	0.9	8
154	Subwavelength-width optical tunnel junctions for ultracold atoms. Physical Review A, 2016, 94, .	1.0	35
155	Non-equilibrium atomic condensates and mixtures: collective modes, condensate growth and thermalisation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 214003.	0.6	6
156	Competition between external and synthetic magnetic fields on a spin-1 ultracold Bose gas. Europhysics Letters, 2016, 116, 46001.	0.7	7
157	Raman fingerprints on the Bloch sphere of a spinor Boseâ€“Einstein condensate. Journal of Modern Optics, 2016, 63, 1759-1767.	0.6	9
158	Quantum turbulence in trapped atomic Boseâ€“Einstein condensates. Physics Reports, 2016, 622, 1-52.	10.3	107
159	Single atom detection in ultracold quantum gases: a review of current progress. Reports on Progress in Physics, 2016, 79, 054401.	8.1	65
160	Creating full-Bloch Boseâ€“Einstein condensates with Ramanq-plates. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Ov	1.0	13
161	Spin-incoherent one-dimensional spin-1 Bose Luttinger liquid. Physical Review A, 2016, 94, .	1.0	6
162	Double-quantum spin vortices in SU(3) spin-orbit-coupled Bose gases. Physical Review A, 2016, 94, .	1.0	33
163	From quantum chaos and eigenstate thermalization to statistical mechanics and thermodynamics. Advances in Physics, 2016, 65, 239-362.	35.9	1,385
164	Quantum rotor theory of systems of spin-2 bosons. Physical Review A, 2016, 94, .	1.0	1

#	Article	IF	Citations
165	Rabi-coupled two-component Bose-Einstein condensates: Classification of the ground states, defects, and energy estimates. Physical Review A, 2016, 94, .	1.0	9
166	Coarsening and thermalization properties of a quenched ferromagnetic spin-1 condensate. Physical Review A, 2016, 94, .	1.0	33
167	Vortex-soliton complexes in coupled nonlinear SchrÃ¶dinger equations with unequal dispersion coefficients. Physical Review E, 2016, 94, 022207.	0.8	13
168	The weakening of fermionization of one dimensional spinor Bose gases induced by spin-exchange interaction. European Physical Journal D, 2016, 70, 1.	0.6	3
169	Solitons in coupled nonlinear SchrÃ¶dinger models: A survey of recent developments. Reviews in Physics, 2016, 1, 140-153.	4.4	134
170	Tricriticalities and Quantum Phases in Spin-Orbit-Coupled Spin-1 Bose Gases. Physical Review Letters, 2016, 117, 125301.	2.9	67
171	Mott lobes of theS=1Bose-Hubbard model with three-body interactions. Physical Review A, 2016, 94, .	1.0	10
172	Dynamical instability in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn> model. Physical Review A, 2016, 93, .	1.0	7
173	Spin-orbit angular momentum coupling in a spin-1 Bose-Einstein condensate. Physical Review A, 2016, 93, .	1.0	35
174	Fractional-charge vortex in a spinor Bose-Einstein condensate. Physical Review A, 2016, 93, .	1.0	8
175	Long-lived states with well-defined spins inspinâ^'1/2homogeneous Bose gases. Physical Review A, 2016, 93, .	1.0	5
176	Spin-nematic order in antiferromagnetic spinor condensates. Physical Review A, 2016, 93, .	1.0	36
177	Interacting spin-orbit-coupled spin-1 Bose-Einstein condensates. Physical Review A, 2016, 93, .	1.0	56
178	Stochastic growth dynamics and composite defects in quenched immiscible binary condensates. Physical Review A, 2016, 93, .	1.0	26
179	Direct and inverse cascades of spin-wave turbulence in spin-1 ferromagnetic spinor Bose-Einstein condensates. Physical Review A, 2016, 93, .	1.0	10
180	Magnetic phase transitions of spin-1 ultracold bosons in a cubic optical lattice. Physical Review A, 2016, 93, .	1.0	14
181	Three-dimensional quaternionic condensations, Hopf invariants, and skyrmion lattices with synthetic spin-orbit coupling. Physical Review A, 2016, 93, .	1.0	18
182	Stability and internal structure of vortices in spin-1 Bose-Einstein condensates with conserved magnetization. Physical Review A, 2016, 93, .	1.0	23

#	Article	IF	Citations
183	Phase transitions and elementary excitations in spin-1 Bose gases with Raman-induced spin-orbit coupling. Physical Review A, 2016, 93, .	1.0	38
184	Confinement and precession of vortex pairs in coherently coupled Bose-Einstein condensates. Physical Review A, 2016, 93, .	1.0	49
185	Magnetic-field-induced dynamical instabilities in an antiferromagnetic spin-1 Bose-Einstein condensate. Physical Review A, 2016, 93, .	1.0	7
186	First-order superfluid-to-Mott-insulator phase transitions in spinor condensates. Physical Review A, 2016, 93, .	1.0	20
187	Spin-1 quantum walks. Physical Review A, 2016, 93, .	1.0	3
188	Interaction-driven exotic quantum phases in spin-orbit-coupled spin-1 bosons. Physical Review B, 2016, 93, .	1.1	13
189	Efficient and accurate methods for solving the time-dependent spin-1 Gross-Pitaevskii equation. Physical Review E, 2016, 93, 053309.	0.8	19
190	Condensing Magnons in a Degenerate Ferromagnetic Spinor Bose Gas. Physical Review Letters, 2016, 116, 095301.	2.9	23
191	Collisional Dynamics of Half-Quantum Vortices in a Spinor Bose-Einstein Condensate. Physical Review Letters, 2016, 116, 185301.	2.9	37
192	Suppression of two-body collisional losses in an ultracold gas via the Fano effect. Physical Review A, 2016, 93, .	1.0	2
193	Simulating frustrated magnetism with spinor Bose gases. Physical Review A, 2016, 93, .	1.0	6
194	Universal Coarsening Dynamics of a Quenched Ferromagnetic Spin-1 Condensate. Physical Review Letters, 2016, 116, 025301.	2.9	63
195	Quantum-Enhanced Sensing Based on Time Reversal of Nonlinear Dynamics. Physical Review Letters, 2016, 117, 013001.	2.9	153
196	Shortcut to adiabaticity in spinor condensates. Physical Review A, 2016, 94, .	1.0	15
197	Berry phase and quantum entanglement in Majorana's stellar representation. Physical Review A, 2016, 94, .	1.0	26
198	Competition between Bose-Einstein Condensation and Spin Dynamics. Physical Review Letters, 2016, 117, 185302.	2.9	18
199	Magnetic phases of spin-1 spinâ€“orbit-coupled Bose gases. Nature Communications, 2016, 7, 10897.	5.8	116
200	First-order phase transitions in spinor Bose gases and frustrated magnets. Physical Review A, 2016, 94, .	1.0	5

#	Article	IF	Citations
201	Real-space mean-field theory of a spin-1 Bose gas in synthetic dimensions. Physical Review A, 2016, 94, .	1.0	15
202	Dynamics of polar-core spin vortices in a ferromagnetic spin-1 Bose-Einstein condensate. Physical Review A, 2016, 94, .	1.0	18
203	Prethermalization and universal dynamics in near-integrable quantum systems. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 064009.	0.9	162
204	Measurement and extinction of vector light shifts using interferometry of spinor condensates. Physical Review A, 2016, 94, .	1.0	9
205	Magnetic and nematic phases in a Weyl type spinâ€“orbit-coupled spin-1 Bose gas. New Journal of Physics, 2016, 18, 063010.	1.2	5
206	Percolation analysis of a disordered spinor Bose gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 125301.	0.6	11
207	Geometric Hall Effect of ^{23} 23 Na Condensate in a Time- and Space-Dependent Magnetic Field. Journal of Low Temperature Physics, 2016, 183, 23-30.	0.6	2
208	Ground states of a mixture of pseudospin-1 2 Bose gases with interspecies spin exchange. Modern Physics Letters B, 2016, 30, 1650131.	1.0	0
209	Topological Hall Effect of Spin-2 Condensate in a Time and Space-Dependent Magnetic Field. International Journal of Theoretical Physics, 2016, 55, 4633-4640.	0.5	0
210	Nonlinear Landau-Zener tunneling in Majoranaâ€™s stellar representation. European Physical Journal D, 2016, 70, 1.	0.6	4
211	Generation and detection of atomic spin entanglement in optical lattices. Nature Physics, 2016, 12, 783-787.	6.5	65
212	Cold Atom Magnetometers. Lecture Notes in Physics, 2016, , 111-133.	0.3	1
213	Dynamics and stability of stationary states for the spin-1 Boseâ€“Einstein condensates in a standing light wave. Communications in Nonlinear Science and Numerical Simulation, 2016, 36, 45-57.	1.7	10
214	Ultracold bosons with short-range interaction in regular optical lattices. Physics Reports, 2016, 607, 1-101.	10.3	80
215	Experimental determination of rotational constants of low-lying vibrational levels in the0gâ^'pure long-range state of ultracold Cs 2 molecule. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 191, 13-18.	1.1	4
216	Polarization domain walls in optical fibres as topological bits for data transmission. Nature Photonics, 2017, 11, 102-107.	15.6	42
217	Deterministic entanglement generation from driving through quantum phase transitions. Science, 2017, 355, 620-623.	6.0	186
218	Simultaneous dipole and quadrupole moment contribution in the Bogoliubov spectrum: Application of the non-integral Grossâ€“Pitaevskii equation. Modern Physics Letters B, 2017, 31, 1750152.	1.0	4

#	Article	IF	Citations
219	Spin dynamics of large-spin fermions in a harmonic trap. Annals of Physics, 2017, 379, 175-186.	1.0	4
220	Measuring the branching ratios from they8P9/2state to metastable states in europium. Optics Communications, 2017, 392, 171-174.	1.0	5
221	Boseâ€“Einstein condensation and indirect excitons: a review. Reports on Progress in Physics, 2017, 80, 066501.	8.1	106
222	Ground state properties of anti-ferromagnetic spinor Bose gases in one dimension. European Physical Journal D, 2017, 71, 1.	0.6	3
223	Quantum optics and frontiers of physics: the third quantum revolution. Physica Scripta, 2017, 92, 013003.	1.2	13
224	Implementing quantum electrodynamics with ultracold atomic systems. New Journal of Physics, 2017, 19, 023030.	1.2	76
225	In situ measurement of light polarization with ellipticity-induced nonlinear magneto-optical rotation. Physical Review A, 2017, 96, .	1.0	12
226	A unified ab initio approach to the correlated quantum dynamics of ultracold fermionic and bosonic mixtures. Journal of Chemical Physics, 2017, 147, 044106.	1.2	83
227	Thermometry of a deeply degenerate Fermi gas with a Bose-Einstein condensate. Physical Review A, 2017, 95, .	1.0	25
228	Modulation instability of a spin-1 Boseâ€“Einstein condensate with spinâ€“orbit coupling. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 235302.	0.6	5
229	Polarization dynamics in a photon Bose-Einstein condensate. Physical Review A, 2017, 96, .	1.0	11
230	Effective control of cold collisions with radio-frequency fields. Physical Review A, 2017, 95, .	1.0	10
231	Spectroscopy and spin dynamics for strongly interacting few-spinor bosons in one-dimensional traps. Physical Review A, 2017, 95, .	1.0	4
232	Spin-incoherent Luttinger liquid of one-dimensional spin-1 Tonks-Girardeau Bose gases: Spin-dependent properties. Physical Review A, 2017, 95, .	1.0	7
233	Magnetic phases of spin-1 lattice gases with random interactions. Physical Review B, 2017, 95, .	1.1	8
234	Collective modes of trapped spinor Boseâ€“Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 215303.	0.6	0
235	Majorana Representation and Mean Field Approach for Interacting-Boson System. Communications in Theoretical Physics, 2017, 68, 439.	1.1	2
236	Strongly spinor ferromagnetic Bose gases. Physical Review A, 2017, 96, .	1.0	6

#	Article	IF	Citations
237	Numerical Studies of Quantum Turbulence. Journal of Low Temperature Physics, 2017, 188, 119-189.	0.6	64
238	Precise measurements on a quantum phase transition in antiferromagnetic spinor Bose-Einstein condensates. Physical Review A, 2017, 95, .	1.0	19
239	Persistent currents in ferromagnetic condensates. Physical Review B, 2017, 95, .	1.1	4
240	Quantum control of spin-nematic squeezing in a dipolar spin-1 condensate. Scientific Reports, 2017, 7, 43159.	1.6	3
241	Vortex-antivortex proliferation from an obstacle in thin film ferromagnets. Physical Review B, 2017, 95, .	1.1	10
242	Stepwise Bose-Einstein Condensation in a Spinor Gas. Physical Review Letters, 2017, 119, 050404.	2.9	21
243	Dynamics of Spinor Condensates Driven by an Inhomogeneous Magnetic Field. Journal of Low Temperature Physics, 2017, 189, 27-41.	0.6	0
244	Solution of the Riemann problem for polarization waves in a two-component Bose-Einstein condensate. Physical Review E, 2017, 96, 062202.	0.8	23
245	Coherent-State Approach for Majorana Representation. Communications in Theoretical Physics, 2017, 67, 611.	1.1	5
246	Strong-coupling phases of the spin-orbit-coupled spin-1 Bose-Hubbard chain: Odd-integer Mott lobes and helical magnetic phases. Physical Review A, 2017, 96, .	1.0	9
247	Spin Hall mode in a trapped thermal Rashba gas. Physical Review A, 2017, 96, .	1.0	2
248	Cavity QED Engineering of Spin Dynamics and Squeezing in a Spinor Gas. Physical Review Letters, 2017, 119, 213601.	2.9	48
249	The Exact Curve Equation for Majorana Stars. Scientific Reports, 2017, 7, 15558.	1.6	5
250	Active SU(1,1) atom interferometry. Quantum Science and Technology, 2017, 2, 044009.	2.6	12
251	Polar-Core Spin Vortex of Quasi-2D Spin-2 Condensate in a Flat-Bottomed Optical Trap. Communications in Theoretical Physics, 2017, 68, 495.	1.1	0
252	Dirac monopoles with a polar-core vortex induced by spin-orbit coupling in spinor Bose-Einstein condensates. Physical Review A, 2017, 95, .	1.0	23
253	Emergence and scaling of spin turbulence in quenched antiferromagnetic spinor Bose-Einstein condensates. Physical Review A, 2017, 95, .	1.0	28
254	Loading of atoms into an optical trap with high initial phase-space density. Physical Review A, 2017, 96, .	1.0	5

#	Article	IF	Citations
255	Existence, stability, and dynamics of harmonically trapped one-dimensional multi-component solitary waves: The near-linear limit. Journal of Mathematical Physics, 2017, 58, .	0.5	3
256	Gross-Pitaevskii non-linear dynamics for pseudo-spinor condensates. Journal of Nonlinear Mathematical Physics, 2017, 24, 426.	0.8	17
257	Different growth rates for spin and superfluid order in a quenched spinor condensate. Physical Review A, 2017, 95, .	1.0	25
258	Superfluidity and spin superfluidity in spinor Bose gases. Physical Review A, 2017, 95, .	1.0	8
259	Kibble-Zurek scalings of continuous magnetic phase transitions in spin-1 spin-orbit-coupled Bose-Einstein condensates. Physical Review A, 2017, 95, .	1.0	8
260	Domain percolation in a quenched ferromagnetic spinor condensate. New Journal of Physics, 2017, 19, 095003.	1.2	8
261	Spinor order parameter and equilibrium states of spin sâ€‰=â€‰1 Bose systems. Low Temperature Physics, 2017, 43, 1062-1069.	0.2	2
262	Three dimensional magnetic solutions in massive gravity with (non)linear field. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 251-261.	1.5	19
263	Closing in on a Magnetic Analog of Liquid Crystals. Physics Magazine, 0, 10, .	0.1	4
264	Miscibleâ€“immiscible transition and nonequilibrium scaling in two-component driven open condensate wires. New Journal of Physics, 2017, 19, 115012.	1.2	2
265	Many-body interferometry of magnetic polaron dynamics. Physical Review B, 2018, 97, .	1.1	26
266	In situ magnetometry for experiments with atomic quantum gases. Review of Scientific Instruments, 2018, 89, 013108.	0.6	4
267	Skyrmions with arbitrary topological charges in spinor Boseâ€“Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 045301.	0.6	8
268	Solitons and rogue waves in spinor Bose-Einstein condensates. Physical Review E, 2018, 97, 022221.	0.8	28
269	Effects of dipolar interactions on the sensitivity of nonlinear spinor-BEC interterometry. Scientific Reports, 2018, 8, 3218.	1.6	3
270	Spontaneous symmetry breaking and Nambu-Goldstone modes in dissipative systems. Physical Review E, 2018, 97, .	0.8	24
271	Metrologically useful states of spin-1 Bose condensates with macroscopic magnetization. Physical Review A, 2018, 97, .	1.0	8
272	Phase diagrams of antiferromagnetic spin-1 bosons on a square optical lattice with the quadratic Zeeman effect. Physical Review A, 2018, 97, .	1.0	4

#	Article	IF	Citations
273	Phase magnification by two-axis countertwisting for detection-noise robust interferometry. Physical Review A, 2018, 97, .	1.0	33
274	Observation of Spin Superfluidity in a Bose Gas Mixture. Physical Review Letters, 2018, 120, 170401.	2.9	43
275	Quantum phases of a spin-1 ultracold Bose gas with three-body interactions. Europhysics Letters, 2018, 121, 46002.	0.7	2
276	Damping-free collective oscillations of a driven two-component Bose gas in optical lattices. Physical Review A, 2018, 97, .	1.0	1
277	Dipolar and spinor bosonic systems. Laser Physics, 2018, 28, 053001.	0.6	45
278	Infinite lattices of vortex molecules in Rabi-coupled condensates. Physical Review A, 2018, 97, .	1.0	11
279	Spin mixing and protection of ferromagnetism in a spinor dipolar condensate. Physical Review A, 2018, 97, .	1.0	10
280	Spin-Orbit-Coupled Interferometry with Ring-Trapped Bose-Einstein Condensates. Physical Review Letters, 2018, 120, 063201.	2.9	24
281	Three-Component Soliton States in Spinor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>F</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:math> Bose-Einstein Condensates. Physical Review Letters, 2018, 120, 063202.	2.9	89
282	Classification of quench-dynamical behaviors in spinor condensates. Physical Review A, 2018, 97, .	1.0	22
283	Continuously observing a dynamically decoupled spin-1 quantum gas. Physical Review A, 2018, 97, .	1.0	14
284	Polar-core spin vortex of quasi-2D ferromagnetic spin-1 condensate in a flat-bottomed optical trap with a weak magnetic field. Annals of Physics, 2018, 389, 102-110.	1.0	2
285	Inverse scattering transform and soliton solutions for square matrix nonlinear SchrÃ¶dinger equations with non-zero boundary conditions. Physica D: Nonlinear Phenomena, 2018, 368, 22-49.	1.3	37
286	Time-of-flight expansion of binary Boseâ€“Einstein condensates at finite temperature. New Journal of Physics, 2018, 20, 053004.	1.2	22
287	Spatially distributed multipartite entanglement enables EPR steering of atomic clouds. Science, 2018, 360, 413-416.	6.0	172
288	Collective modes in multicomponent condensates with anisotropy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 085302.	0.6	5
289	Interferometric sensitivity and entanglement by scanning through quantum phase transitions in spinor Bose-Einstein condensates. Physical Review A, 2018, 97, .	1.0	26
290	Coupled dynamics of interacting spin-1 bosons in a double-well potential. Physical Review A, 2018, 97, .	1.0	2

#	Article	IF	Citations
291	Experimental Observation of Spin-Exchange in Ultracold Fermi Gases. Chinese Physics Letters, 2018, 35, 033401.	1.3	3
292	Spinâ€1 Bose Hubbard Model with Nearest Neighbour Extended Interaction. Annalen Der Physik, 2018, 530, 1700245.	0.9	5
293	Expansion of a Superfluid Fermi Gas Monolayer. Journal of Experimental and Theoretical Physics, 2018, 127, 877-882.	0.2	2
294	Observation of universal dynamics in a spinor Bose gas far from equilibrium. Nature, 2018, 563, 217-220.	13.7	164
295	Mesoscopics of half-quantum vortex pair deconfinement in a trapped spin-one condensate. Physical Review A, 2018, 98, .	1.0	9
296	Dual-species bose-Einstein condensate of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">K</mml:mi><mml:mprescripts /><mml:none /><mml:mn>41</mml:mn></mml:mmultiscripts></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Rb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>87</mml:mn></mml:mmultiscripts></mml:math> in a hybrid trap. Physical Revi	1.0	24
297	Spin mixing dynamics in a spin-orbit coupled spin-1 Boseâ€“Einstein condensate. Modern Physics Letters B, 2018, 32, 1850404.	1.0	1
298	Spin dynamics in lattices of spinor atoms with quadratic Zeeman effect. European Physical Journal D, 2018, 72, 1.	0.6	3
299	Accurate calculations of weakly bound state energy and scattering length near magnetically tuned Feshbach resonance using the separable potential method. Journal of Chemical Physics, 2018, 149, 154105.	1.2	2
300	Cooper-Pair Spin Current in a Strontium Ruthenate Heterostructure. Physical Review Letters, 2018, 121, 167001.	2.9	12
301	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math> -wave superfluidity in mixtures of ultracold Fermi and spinor Bose gases. Physical Review A, 2018, 98, .	1.0	4
302	Quantum metrology with nonclassical states of atomic ensembles. Reviews of Modern Physics, 2018, 90, .	16.4	852
303	Hanbury Brownâ€“Twiss correlations and multi-mode dynamics in quenched, inhomogeneous density spinor Boseâ€“Einstein condensates. New Journal of Physics, 2018, 20, 095003.	1.2	3
304	Multiparameter estimation via an ensemble of spinor atoms. Physical Review A, 2018, 98, .	1.0	11
305	Symmetry-restoring quantum phase transition in a two-dimensional spinor condensate. Scientific Reports, 2018, 8, 12468.	1.6	1
306	Realization of a Strongly Interacting Fermi Gas of Dipolar Atoms. Physical Review Letters, 2018, 121, 093602.	2.9	43
307	Effective non-linear spinor dynamics in a spin-1 Boseâ€“Einstein condensate. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 405201.	0.7	2
308	Multi-second magnetic coherence in a single domain spinor Boseâ€“Einstein condensate. New Journal of Physics, 2018, 20, 053008.	1.2	15

#	Article	IF	Citations
309	Spin-1 Boseâ€“Hubbard model with two- and three-body interactions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1760-1765.	0.9	2
310	Formation of a Spin Texture in a Quantum Gas Coupled to a Cavity. Physical Review Letters, 2018, 120, 223602.	2.9	93
311	Collective Spin Modes of a Trapped Quantum Ferrofluid. Physical Review Letters, 2018, 121, 013201.	2.9	12
312	Search for new physics with atoms and molecules. Reviews of Modern Physics, 2018, 90, .	16.4	902
313	Phase diagrams and multistep condensations of spin-1 bosonic gases in optical lattices. Scientific Reports, 2018, 8, 9143.	1.6	6
314	Exotic ground states of a spinâ€“orbit-coupled spinor Boseâ€“Einstein condensate trapped by a toroidal potential. Laser Physics Letters, 2018, 15, 085501.	0.6	6
315	Efficient two-mode interferometers with spinor Bose-Einstein condensates. Physical Review A, 2018, 98, .	1.0	5
316	Effective Control of Chemical Potentials by Rabi Coupling with RF-Fields in Ultracold Mixtures. Condensed Matter, 2018, 3, 14.	0.8	3
317	Universal driven critical dynamics across a quantum phase transition in ferromagnetic spinor atomic Bose-Einstein condensates. Physical Review A, 2018, 98, .	1.0	25
318	Weyl type spinâ€“orbit coupled ferromagnetic Boseâ€“Einstein condensates under rotation. Annals of Physics, 2018, 396, 87-95.	1.0	7
319	Ground-states and rotational properties of a spinâ€“orbit-coupled spin-1 Boseâ€“Einstein condensate in a concentrically coupled toroidal trap. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2493-2498.	0.9	10
320	Superfluid drag in multicomponent Bose-Einstein condensates on a square optical lattice. Physical Review B, 2018, 98, .	1.1	7
321	Phase transitions and spin excitations of spin-1 bosons in optical lattice. European Physical Journal D, 2018, 72, 1.	0.6	2
322	Absence of Landau damping in driven three-component Boseâ€“Einstein condensate in optical lattices. Scientific Reports, 2018, 8, 11523.	1.6	2
323	Spin current contribution in the spectrum of collective excitations of degenerate partially polarized spin-1/2 fermions at separate dynamics of spin-up and spin-down fermions. Laser Physics Letters, 2018, 15, 105501.	0.6	8
324	Spin hydrodynamics in amorphous magnets. Physical Review B, 2018, 98, .	1.1	25
325	Quantum Field Theory of Nematic Transitions in Spin-Orbit-Coupled Spin-1 Polar Bosons. Physical Review Letters, 2018, 121, 083402.	2.9	12
326	Artificial gauge fields in materials and engineered systems. Comptes Rendus Physique, 2018, 19, 394-432.	0.3	143

#	Article	IF	Citations
327	Three-dimensional skyrmions in spin-2 Boseâ€“Einstein condensates. New Journal of Physics, 2018, 20, 055011.	1.2	17
328	Influence of quadratic Zeeman effect on spin waves in dipolar lattices. Journal of Magnetism and Magnetic Materials, 2018, 465, 450-456.	1.0	4
329	Probing the Interface of a Phase-Separated State in a Repulsive Bose-Fermi Mixture. Physical Review Letters, 2018, 120, 243403.	2.9	51
330	Introduction to topological quantum computation with non-Abelian anyons. Quantum Science and Technology, 2018, 3, 045004.	2.6	48
331	Exploring the thermodynamics of spin-1 Bose gases with synthetic magnetization. New Journal of Physics, 2019, 21, 043024.	1.2	3
332	Probing ferromagnetic order in few-fermion correlated spin-flip dynamics. New Journal of Physics, 2019, 21, 053005.	1.2	25
333	Relaxation and hysteresis near Shapiro resonances in a driven spinor condensate. Physical Review A, 2019, 100, .	1.0	14
334	Efficient Generation of Many-Body Entangled States by Multilevel Oscillations. Physical Review Letters, 2019, 123, 073001.	2.9	12
335	SU(3) spinâ€“orbit-coupled Boseâ€“Einstein condensate confined in a harmonic plus quartic trap. Chinese Physics B, 2019, 28, 070302.	0.7	6
336	Controlled generation of dark-bright soliton complexes in two-component and spinor Bose-Einstein condensates. Physical Review A, 2019, 100, .	1.0	12
337	Observation of dynamical quantum phase transitions in a spinor condensate. Physical Review A, 2019, 100, .	1.0	33
338	Coupled superfluidity of binary Bose mixtures in two dimensions. Physical Review A, 2019, 99, .	1.0	17
339	Controlled creation of a singular spinor vortex by circumventing the Dirac belt trick. Nature Communications, 2019, 10, 4772.	5.8	12
340	Optimal quantum interferometry robust to detection noise using spin-1 atomic condensates. New Journal of Physics, 2019, 21, 093037.	1.2	9
341	On the equation of state for the â€œthermalâ€•part of the spin current: The Pauli principle contribution in the spin wave spectrum in a cold fermion system. Progress of Theoretical and Experimental Physics, 2019, 2019, .	1.8	5
342	Spinor Bose-Einstein condensate interferometer within the undepleted pump approximation: Role of the initial state. Physical Review A, 2019, 100, .	1.0	10
343	Dynamic response of spin-2 bosons in one-dimensional optical lattices. Physical Review A, 2019, 100, .	1.0	0
344	Immiscible and miscible states in binary condensates in the ring geometry. New Journal of Physics, 2019, 21, 073058.	1.2	15

#	Article	IF	Citations
345	Parallel multicomponent interferometer with a spinor Bose-Einstein condensate. Physical Review A, 2019, 100, .	1.0	7
346	String tension and robustness of confinement properties in the Schwinger-Thirring model. Physical Review D, 2019, 100, .	1.6	4
347	Violation of single-length-scaling dynamics via spin vortices in an isolated spin-1 Bose gas. Physical Review A, 2019, 100, .	1.0	14
348	Quantum Quench and Nonequilibrium Dynamics in Lattice-Confined Spinor Condensates. Physical Review Letters, 2019, 123, 113002.	2.9	20
349	Dipolar-Induced Formation of Domain in Spin-2 Bose-Einstein Condensates. International Journal of Theoretical Physics, 2019, 58, 1108-1116.	0.5	0
350	Magnetized vector solitons in a spin-orbit coupled spin-1 Bose-Einstein condensate with Zeeman coupling. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2883-2890.	0.9	7
351	Effects of an attractive three-body interaction on a spin-1 Bose Hubbard model. Laser Physics, 2019, 29, 075501.	0.6	0
352	Quantitative investigation of the Zeeman and Paschen-Back effects of the hyperfine structure during the rubidium <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>5</mml:mn><mml:msup><mml:mspace width="0.16em" /><mml:mn>2</mml:mn></mml:msup><mml:msub><mml:mi>S</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:msup><mml:msub><mml:mi>D</mml:mi>	1.0	2
353	Measurement-induced dynamics and stabilization of spinor-condensate domain walls. Physical Review A, 2019, 99, .	1.0	12
354	Ground States of Dipolar Spinâ€“Orbit-Coupled Boseâ€“Einstein Condensates in a Toroidal Trap. Journal of the Physical Society of Japan, 2019, 88, 064001.	0.7	3
355	Implementation of Full Spin-State Interferometer*. Chinese Physics Letters, 2019, 36, 050301.	1.3	2
356	ThermallyÂrobust spin correlations between two 85Rb atoms in an optical microtrap. Nature Communications, 2019, 10, 1889.	5.8	13
357	Kinetic theory of nonthermal fixed points in a Bose gas. Physical Review A, 2019, 99, .	1.0	41
358	Quantum dimer models emerging from large-spin ultracold atoms. Physical Review A, 2019, 99, .	1.0	4
359	Enhanced Magnetic Sensitivity with Non-Gaussian Quantum Fluctuations. Physical Review Letters, 2019, 122, 173601.	2.9	27
360	Bidirectional universal dynamics in a spinor Bose gas close to a nonthermal fixed point. Physical Review A, 2019, 99, .	1.0	16
361	Two-Component Nonlinear SchrÃ¶dinger Equations for Spin-1 BECs. , 2019, , 393-436.		0
362	Two-dimensional mixture of dipolar fermions: Equation of state and magnetic phases. Physical Review A, 2019, 99, .	1.0	7

#	Article	IF	Citations
363	The space atom laser: an isotropic source for ultra-cold atoms in microgravity. New Journal of Physics, 2019, 21, 013039.	1.2	19
364	Spontaneous formation and relaxation of spin domains in antiferromagnetic spin-1 condensates. Nature Communications, 2019, 10, 1422.	5.8	21
365	Spin Mixing Dynamics in a Spinâ€“Orbit Coupled Boseâ€“Einstein Condensate. Journal of Low Temperature Physics, 2019, 195, 450-459.	0.6	2
366	Rigorous Results for the Ground States of the Spin-2 Bose-Hubbard Model. Physical Review Letters, 2019, 122, 053401.	2.9	2
368	Spinor bosons in optical superlattices: A numerical study. Physical Review A, 2019, 100, .	1.0	0
369	Simulating seeded vacuum decay in a cold atom system. Physical Review D, 2019, 100, .	1.6	28
370	Inverse Scattering Transform and Solitons for Square Matrix Nonlinear SchrÃ¶dinger Equations with Mixed Sign Reductions and Nonzero Boundary Conditions. Journal of Nonlinear Mathematical Physics, 2019, 27, 130.	0.8	7
371	Effective trapping of cold atoms using dipole and radiative forces in an optical trap. Physical Review A, 2019, 100, .	1.0	1
372	Coherent spin mixing via spin-orbit coupling in Bose gases. Physical Review A, 2019, 100, .	1.0	3
373	Heralded Generation of Macroscopic Superposition States in a Spinor Bose-Einstein Condensate. Physical Review Letters, 2019, 123, 260403.	2.9	12
374	Nonequilibrium quantum phase transition in a spinor quantum gas in a lattice coupled to a membrane. Physical Review A, 2019, 100, .	1.0	4
375	Ferromagnetic-Core Spin Vortex of Quasi-2D Spin-1 Condensate in a Harmonic Trap. Journal of Low Temperature Physics, 2019, 194, 76-87.	0.6	1
376	Classifying the ground-state phases of spinâ€“orbit coupled spin-2 Boseâ€“Einstein condensate in momentum space. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 566-569.	0.9	4
377	Photon-Mediated Spin-Exchange Dynamics of Spin-1 Atoms. Physical Review Letters, 2019, 122, 010405.	2.9	120
378	Uniaxial Dynamical Decoupling for an Open Quantum System. Physical Review Letters, 2019, 122, 010408.	2.9	6
379	Tailored Single-Atom Collisions at Ultralow Energies. Physical Review Letters, 2019, 122, 013401.	2.9	14
380	Preparing the spin-singlet state of a spinor gas in an optical cavity. Physical Review A, 2019, 99, .	1.0	3
381	Dynamics of ultracold quantum gases in the dissipative Fermiâ€“Hubbard model. Quantum Science and Technology, 2019, 4, 014002.	2.6	51

#	Article	IF	Citations
382	Stability analysis of ground states in a one-dimensional trapped spin-1 Bose gas. Communications in Nonlinear Science and Numerical Simulation, 2020, 83, 105050.	1.7	5
383	Counting Rules of Nambuâ€“Goldstone Modes. Annual Review of Condensed Matter Physics, 2020, 11, 169-187.	5.2	45
384	Destiny of optical lattices with strong intersite interactions. Laser Physics, 2020, 30, 015501.	0.6	6
385	Strong chaos of fast scrambling yields order: Emergence of decoupled quantum information capsules. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126078.	0.9	1
386	Quantum Turbulence in Quantum Gases. Annual Review of Condensed Matter Physics, 2020, 11, 37-56.	5.2	32
387	SU(3) symmetry in theory of a weakly interacting gas of spin-1 atoms with Bose-Einstein condensate. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126798.	0.9	6
388	Spin-2 Boseâ€“Einstein condensates in an annular trap with spinâ€“orbit coupling. Results in Physics, 2020, 19, 103437.	2.0	0
389	Collisions of Three-Component Vector Solitons in Bose-Einstein Condensates. Physical Review Letters, 2020, 125, 170401.	2.9	48
390	Critically enhanced spin-nematic squeezing and entanglement in dipolar spinor condensates. Physical Review A, 2020, 102, .	1.0	1
391	Exotic ground states in a SU(3) spin-orbit coupled spin-1 Boseâ€“Einstein condensate under rotation. Chaos, Solitons and Fractals, 2020, 141, 110332.	2.5	3
392	Magnetic Solitons in a Spin-1 Bose-Einstein Condensate. Physical Review Letters, 2020, 125, 030402.	2.9	49
393	Probing Spin Correlations in a Bose-Einstein Condensate Near the Single-Atom Level. Physical Review Letters, 2020, 125, 033401.	2.9	33
394	Properties of a nematic spin vortex in an antiferromagnetic spin-1 Bose-Einstein condensate. Physical Review A, 2020, 102, .	1.0	8
395	From optical lattices to quantum crystals. Journal of Physics: Conference Series, 2020, 1508, 012008.	0.3	2
396	Spontaneous symmetry breaking and Nambuâ€“Goldstone modes in open classical and quantum systems. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	14
397	Vortex patterns of atomic Bose-Einstein condensates in a density-dependent gauge potential. Physical Review A, 2020, 102, .	1.0	10
398	Breathing Mode of a Bose-Einstein Condensate Immersed in a Fermi Sea. Physical Review Letters, 2020, 125, 103401.	2.9	8
399	Robust Encoding of a Qubit in a Molecule. Physical Review X, 2020, 10, .	2.8	78

#	Article	IF	Citations
400	Vectorial lightâ€“matter interaction: Exploring spatially structured complex light fields. AVS Quantum Science, 2020, 2, .	1.8	76
401	Quantum turbulence in Boseâ€“Einstein condensates: Present status and new challenges ahead. AVS Quantum Science, 2020, 2, .	1.8	14
402	Mean-field spin-oscillation dynamics beyond the single-mode approximation for a harmonically trapped spin-1 Bose-Einstein condensate. Physical Review A, 2020, 102, .	1.0	9
403	Magnetic Dipolar Interaction between Hyperfine Clock States in a Planar Alkali Bose Gas. Physical Review Letters, 2020, 125, 233604.	2.9	6
404	Trapping of lithium atoms in a large hollow optical dipole trap. Quantum Electronics, 2020, 50, 520-524.	0.3	8
405	Twist-and-store entanglement in bimodal and spin-1 Bose-Einstein condensates. Physical Review A, 2020, 102, .	1.0	1
406	Dark-antidark spinor solitons in spin-1 Bose gases. Physical Review A, 2020, 102, .	1.0	6
407	Laser cooling of transition-metal atoms. Physical Review A, 2020, 102, .	1.0	10
408	Dynamical Zeeman resonance in spin-orbit-coupled spin-1 Bose gases. Physical Review A, 2020, 102, .	1.0	1
409	Spin-Nematic Vortex States in Cold Atoms. Physical Review Letters, 2020, 125, 195303.	2.9	9
410	Classical and quantum chaos in a three-mode bosonic system. Physical Review A, 2020, 101, .	1.0	22
411	Stripe and supersolid phases of spinâ€“orbit coupled spin-2 Boseâ€“Einstein condensates in an optical lattice. Journal of Physics Condensed Matter, 2020, 32, 035401.	0.7	2
412	Magnetism of spinor alkali-metal and alkaline-earth-metal atoms in optical lattices. Physical Review A, 2020, 101, .	1.0	2
413	Experimental extraction of the quantum effective action for a non-equilibrium many-body system. Nature Physics, 2020, 16, 1012-1016.	6.5	23
414	Saga of Superfluid Solids. Physics, 2020, 2, 49-66.	0.5	29
415	Bifurcation analysis of stationary solutions of two-dimensional coupled Grossâ€“Pitaevskii equations using deflated continuation. Communications in Nonlinear Science and Numerical Simulation, 2020, 87, 105255.	1.7	19
416	A scalable realization of local U(1) gauge invariance in cold atomic mixtures. Science, 2020, 367, 1128-1130.	6.0	144
417	Many-body effects on second-order phase transitions in spinor Bose-Einstein condensates and breathing dynamics. Physical Review A, 2020, 102, .	1.0	8

#	Article	IF	Citations
418	Experimental realization of spin-tensor momentum coupling in ultracold Fermi gases. Physical Review A, 2020, 102, .	1.0	8
419	Light cone dynamics in excitonic states of two-component Bose and Fermi gases. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 013103.	0.9	1
420	Observation of Dynamical Quantum Phase Transitions with Correspondence in an Excited State Phase Diagram. Physical Review Letters, 2020, 124, 043001.	2.9	77
421	Nematic-Orbit Coupling and Nematic Density Waves in Spin-1 Condensates. Physical Review Letters, 2020, 124, 173203.	2.9	5
422	Implementation of a double-path multimode interferometer using a spinor Bose-Einstein condensate. Physical Review A, 2020, 101, .	1.0	3
423	Quantum spiral spin-tensor magnetism. Physical Review B, 2020, 101, .	1.1	7
424	Spin soliton with a negative-positive mass transition. Physical Review A, 2020, 101, .	1.0	18
425	Magnetic stripe soliton and localized stripe wave in spin-1 Bose-Einstein condensates. Physical Review A, 2020, 101, .	1.0	12
426	Supersensitive quantum sensor based on criticality in an antiferromagnetic spinor condensate. Physical Review A, 2020, 101, .	1.0	19
427	High-precision analysis of Feshbach resonances in a Mott insulator. Physical Review A, 2020, 101, .	1.0	5
428	A Dual-Species Bose-Einstein Condensate with Attractive Interspecies Interactions. Condensed Matter, 2020, 5, 21.	0.8	29
429	Spatiotemporal engineering of matter-wave solitons in Boseâ€“Einstein condensates. Physics Reports, 2021, 899, 1-62.	10.3	73
430	FORTRESS: FORTRAN programs for solving coupled Grossâ€“Pitaevskii equations for spinâ€“orbit coupled spin-1 Boseâ€“Einstein condensate. Computer Physics Communications, 2021, 259, 107671.	3.0	16
431	Dissipative Polarization Domain Walls in a Passive Coherently Driven Kerr Resonator. Physical Review Letters, 2021, 126, 023904.	2.9	19
432	Evidence of Potts-Nematic Superfluidity in a Hexagonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>s</mml:mi><mml:msup><mml:mi>p</mml:mi><mml:mn>2</mml:mn></mml:msup></mml:math> Optical Lattice. Physical Review Letters, 2021, 126, 035301.	2.9	34
433	Phase diagram, stability and magnetic properties of nonlinear excitations in spinor Boseâ€“Einstein condensates. New Journal of Physics, 2021, 23, 013015.	1.2	23
434	The Bose-Einstein Condensate and Cold Atom Laboratory. EPJ Quantum Technology, 2021, 8, .	2.9	85
435	Quantum hydrodynamic theory of quantum fluctuations in dipolar Boseâ€“Einstein condensate. Chaos, 2021, 31, 023120.	1.0	12

#	Article	IF	Citations
436	Damped point-vortex model for polar-core spin vortices in a ferromagnetic spin-1 Bose-Einstein condensate. Physical Review Research, 2021, 3, .	1.3	7
437	Cluster mean-field study of spinor Boseâ€“Hubbard ladder: Ground-state phase diagram and many-body population dynamics*. Chinese Physics B, 2021, 30, 026701.	0.7	0
438	Finite-temperature spin dynamics of a two-dimensional Bose-Bose atomic mixture. Physical Review Research, 2021, 3, .	1.3	7
439	Criticality-enhanced quantum sensing in ferromagnetic Bose-Einstein condensates: Role of readout measurement and detection noise. Physical Review A, 2021, 103, .	1.0	13
440	Extended hydrodynamics of degenerate partially spin polarized fermions with short-range interaction up to the third order by interaction radius approximation. Laser Physics, 2021, 31, 045501.	0.6	8
441	Darkâ€“dark soliton breathing patterns in multi-component Boseâ€“Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 055301.	0.6	13
442	Controlled creation and decay of singly-quantized vortices in a polar magnetic phase. Communications Physics, 2021, 4, .	2.0	6
443	Spinâ€“orbit-coupled spin-1 Boseâ€“Einstein condensates confined in radially periodic potential*. Chinese Physics B, 2021, 30, 030302.	0.7	2
444	Quantum critical dynamics in a spinor Hubbard model quantum simulator. Communications Physics, 2021, 4, .	2.0	4
445	Majorana stellar representation for mixed-spin (s, 1/2) systems*. Chinese Physics B, 2021, 30, 030303.	0.7	2
446	Magnetic phases and phase diagram of spin-1 condensate with quadrupole degrees of freedom. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 165001.	0.7	6
447	Dark-soliton-like magnetic domain walls in a two-dimensional ferromagnetic superfluid. Physical Review Research, 2021, 3, .	1.3	9
448	Stability of supercurrents in a superfluid phase of spin-1 bosons in an optical lattice. Physical Review A, 2021, 103, .	1.0	4
449	Multifaceted phase ordering kinetics of anÂantiferromagnetic spin-1 condensate. Scientific Reports, 2021, 11, 9296.	1.6	0
450	Nematic tensor evolution in the partially-polarized spin-1 Boseâ€“Einstein condensates. Modern Physics Letters B, 2021, 35, 2150305.	1.0	0
451	Hydrodynamics of the atomic Boseâ€“Einstein condensate beyond the mean-field approximation. Laser Physics Letters, 2021, 18, 055501.	0.6	3
452	Improving cold-atom sensors with quantum entanglement: Prospects and challenges. Applied Physics Letters, 2021, 118, .	1.5	24
453	Complete Quantum Coherent Control of Ultracold Molecular Collisions. Physical Review Letters, 2021, 126, 153403.	2.9	21

#	Article	IF	Citations
454	Tunable Single-Ion Anisotropy in Spin-1 Models Realized with Ultracold Atoms. Physical Review Letters, 2021, 126, 163203.	2.9	16
455	Approximate nonlinear wave solutions of the coupled two-component Grossâ€“Pitaevskii equations with spinâ€“orbit interaction. New Journal of Physics, 2021, 23, 043045.	1.2	2
456	Quantum lock-in detection of a vector light shift. Physical Review A, 2021, 103, .	1.0	2
457	Entanglement detection in quantum many-body systems using entropic uncertainty relations. Physical Review A, 2021, 103, .	1.0	15
458	Efficient and accurate gradient flow methods for computing ground states of spinor Bose-Einstein condensates. Journal of Computational Physics, 2021, 433, 110183.	1.9	3
459	Quantum Zeno control of spin mixing and squeezing in a spinor Bose-Einstein condensate. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	0.6	0
460	Laser control of the singlet-pairing process in an ultracold spinor mixture. Physical Review A, 2021, 103, .	1.0	3
461	Polarization and Phase Textures in Lattice Plasmon Condensates. Nano Letters, 2021, 21, 5262-5268.	4.5	2
462	Interferometric Order Parameter for Excited-State Quantum Phase Transitions in Bose-Einstein Condensates. Physical Review Letters, 2021, 126, 230602.	2.9	22
463	Symmetry-protected topological phases in spinful bosons with a flat band. Physical Review Research, 2021, 3, .	1.3	8
464	Majorana decomposition for two-qubit pure states. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 295302.	0.7	1
465	Interaction of vector Bose gases with fermionic superfluids. Physical Review B, 2021, 103, .	1.1	0
466	Quantum hydrodynamics of the spinor Boseâ€“Einstein condensate at non-zero temperatures. Physics of Fluids, 2021, 33, .	1.6	12
467	Selection rule for topological amplifiers in Bogoliubovâ€“de Gennes systems. Physical Review A, 2021, 104, .	1.0	3
468	Systematic vector solitary waves from their linear limits in one-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -component Bose-Einstein condensates. Physical Review E, 2021, 104, 014217.	0.8	6
469	Spin-orbit-coupled fluids of light in bulk nonlinear media. Physical Review A, 2021, 104, .	1.0	4
470	Quench dynamics of two-leg ladders with magnetic flux. Physica A: Statistical Mechanics and Its Applications, 2021, 576, 126062.	1.2	2
471	Three-body spin mixing in spin-1 Bose-Einstein condensates. Physical Review A, 2021, 104, .	1.0	5

#	Article	IF	Citations
472	Semi-implicit finite-difference methods to study the spin-orbit- and coherently-coupled spinor Boseâ€“Einstein condensates. International Journal of Modern Physics C, 2022, 33, .	0.8	5
473	Observation of fragmentation of a spinor Bose-Einstein condensate. Science, 2021, 373, 1340-1343.	6.0	25
474	Spin structures of the ground states of four body bound systems with spin 3 cold atoms. Scientific Reports, 2021, 11, 17999.	1.6	0
475	Dynamical preparation of stripe states in spin-orbit-coupled gases. Physical Review A, 2021, 104, .	1.0	9
476	Majorana Representation for a Composite System. International Journal of Theoretical Physics, 2021, 60, 3927-3933.	0.5	2
477	Magnetic dipolar modes in magnon-polariton condensates. Journal of Modern Optics, 2021, 68, 1147-1172.	0.6	4
478	Preparation of a two-state mixture of ultracold fermionic atoms with balanced population subject to the unstable magnetic field*. Chinese Physics B, 2021, 30, 090303.	0.7	0
479	Scalable Cold-Atom Quantum Simulator for Two-Dimensional QED. Physical Review Letters, 2021, 127, 130504.	2.9	19
480	Dynamic high-resolution optical trapping of ultracold atoms. Advances in Atomic, Molecular and Optical Physics, 2021, , 1-101.	2.3	5
481	Melting of Mott phases in spin-1 Bose Hubbard model. AIP Conference Proceedings, 2021, , .	0.3	0
482	A stable spin-structure found in a 3-body system with spin-3 cold atoms and its role in N-body condensates. Scientific Reports, 2021, 11, 1792.	1.6	1
483	The non-Hermitian geometrical property of 1D Lieb lattice under Majoranaâ€™s stellar representation. Journal of Physics Condensed Matter, 2020, 32, 425402.	0.7	6
484	Excitations in the Yangâ€“Gaudin Bose gas. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 063101.	0.9	6
485	Floquet spinor Bose gases. Physical Review Research, 2019, 1, .	1.3	6
486	Strongly interacting spin-orbit coupled Bose-Einstein condensates in one dimension. Physical Review Research, 2020, 2, .	1.3	6
487	Stability and absence of a tower of states in ferrimagnets. Physical Review Research, 2020, 2, .	1.3	1
488	Controlling dipolar exchange interactions in a dense three-dimensional array of large-spin fermions. Physical Review Research, 2020, 2, .	1.3	39
489	Transport through a quantum critical system: A thermodynamically consistent approach. Physical Review Research, 2020, 2, .	1.3	4

#	Article	IF	Citations
490	Collisional spin transfer in an atomic heteronuclear spinor Bose gas. Physical Review Research, 2020, 2, .	1.3	6
491	Lattice modulation spectroscopy of one-dimensional quantum gases: Universal scaling of the absorbed energy. Physical Review Research, 2020, 2, .	1.3	7
492	Synthetic flux attachment. Physical Review Research, 2020, 2, .	1.3	12
493	Observation of a strongly ferromagnetic spinor Bose-Einstein condensate. Physical Review Research, 2020, 2, .	1.3	25
494	Observation of generalized Kibble-Zurek mechanism across a first-order quantum phase transition in a spinor condensate. Science Advances, 2020, 6, eaba7292.	4.7	21
495	Scattering amplitudes for dark and bright excitons. Europhysics Letters, 2017, 118, 47007.	0.7	3
496	Anomalous phase ordering of a quenched ferromagnetic superfluid. SciPost Physics, 2019, 7, .	1.5	5
497	Ground state of a rotating Bose-Einstein condensate with in-plane quadrupole field. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 130305.	0.2	7
498	Majorana representation for the nonlinear two-mode boson system. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 160302.	0.2	1
499	The research progress of topological properties in spinor Bose-Einstein condensates. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 010303.	0.2	1
500	Tunneling Hamiltonian analysis of DC Josephson currents in a weakly-interacting Bose-Einstein condensate. Physical Review Research, 2021, 3, .	1.3	3
501	Universal quantum computation and quantum error correction with ultracold atomic mixtures. Quantum Science and Technology, 2022, 7, 015008.	2.6	16
502	Introduction and Background Physics. Springer Theses, 2016, , 1-43.	0.0	0
503	Generation of twin-Fock states for precision measurement beyond the standard quantum limit. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 160303.	0.2	1
504	Hamiltonian of a Spin-1 Bose-Einstein Condensate. Springer Theses, 2018, , 31-49.	0.0	0
507	Photon-mediated spin-mixing dynamics. , 2019, , .		0
508	Universal Relaxation in Quantum Systems. Advances in Dynamics, Patterns, Cognition, 2020, , 111-130.	0.2	0
509	Bogoliubov theory of a Boseâ€“Einstein condensate of rigid rotor molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 205302.	0.6	0

#	Article	IF	Citations
510	Sensitive spatially resolved magnetometry using a Bose-condensed gas with a bright probe. Physical Review A, 2021, 104, .	1.0	6
511	Spin-wave growth via Shapiro resonances in a spinor Bose-Einstein condensate. Physical Review Research, 2021, 3, .	1.3	2
512	Laser-induced frequency shift in a spin-1 Boseâ€“Einstein condensate of sodium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 277, 107985.	1.1	0
513	Symmetry classification of uniform states in spin-2 Bose-Einstein condensates and neutron <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>P</mml:mi><mml:mn>2</mml:mn><mml:none /><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts></mml:math> superfluids. Physical Review A, 2021, 104, .	1.0	2
514	Vector polarizability of an atomic state induced by a linearly polarized vortex beam: External control of magic, tune-out wavelengths, and heteronuclear spin oscillations. Physical Review A, 2020, 102, .	1.0	5
515	Feedback induced magnetic phases in binary Bose-Einstein condensates. Physical Review Research, 2020, 2, .	1.3	9
516	Dynamics of ring dark solitons in Bose-Einstein condensates. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 010302.	0.2	3
518	Some recent progresses on the study of ultracold quantum gases with spin-orbit coupling. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 016701.	0.2	7
519	Quantum Particle in a Magnetic Environment. Springer Theses, 2020, , 205-224.	0.0	0
520	Ground state of spin-orbit coupled rotating ferromagnetic Bose-Einstein condensate in toroidal trap. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 140301.	0.2	1
521	Spin symmetry breaking and entropy production during the evolution of spinor Bose-Einstein condensate driven by coherent atom beam. Physical Review Research, 2020, 2, .	1.3	0
522	Vortex-lattice formation in a spinâ€“orbit coupled rotating spin-1 condensate. Journal of Physics Condensed Matter, 2021, 33, 065404.	0.7	4
523	Low-Density Spinor Bose Gas of Particles with Arbitrary Spin. JETP Letters, 2020, 112, 577-581.	0.4	1
524	A numerical scheme for the ground state of rotating spin-1 Boseâ€“Einstein condensates. Scientific Reports, 2021, 11, 22801.	1.6	1
525	Spin-orbit coupling controlling the topological vortical phase transition in spin-2 rotating Bose-Einstein condensates. Physical Review A, 2021, 104, .	1.0	5
526	Solitons and soliton interactions in repulsive spinor Boseâ€“Einstein condensates with nonzero background. European Physical Journal Plus, 2021, 136, 1.	1.2	4
527	Strongly interacting two-component coupled Bose gas in optical lattices. Physical Review A, 2021, 104, .	1.0	1
528	Vortex-bright soliton complexes in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e806" altimg="si3.svg"><mml:mrow><mml:mi>F</mml:mi><mml:mo linebreak="goodbreak" linebreakstyle="after">=</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:math> rotating Boseâ€“Einstein condensates. Annals of Physics, 2022, 437, 168738.	1.0	3

#	Article	IF	Citations
529	Gaussian trajectory description of fragmentation in an isolated spinor condensate. Physical Review A, 2022, 105, .	1.0	2
530	Spin solitons in spin-1 Boseâ€“Einstein condensates. Communications in Nonlinear Science and Numerical Simulation, 2022, 109, 106286.	1.7	7
531	Instabilities of a vortex-ring-bright soliton in trapped binary three-dimensional Bose-Einstein condensates. Physical Review A, 2022, 105, .	1.0	11
532	Persistent and enhanced spin-nematic squeezing in a spinor Boseâ€“Einstein condensate. Communications in Theoretical Physics, 2022, 74, 025103.	1.1	1
533	Near-threshold scaling of resonant inelastic collisions at ultralow temperatures. Physical Review A, 2022, 105, .	1.0	1
534	Elementary Excitations in the Ferromagnetic Boseâ€“Einstein Condensate of Low-Density Gas of Arbitrary Spin Particles. Journal of Low Temperature Physics, 0, , 1.	0.6	0
535	Supersolid-like solitons in a spin-orbit-coupled spin-2 condensate. Physical Review A, 2022, 105, .	1.0	11
536	Caustics in quantum many-body dynamics. Physical Review Research, 2022, 4, .	1.3	10
537	Topological classifications of quadratic bosonic excitations in closed and open systems with examples. Journal of Physics Condensed Matter, 2022, , .	0.7	0
538	Single-domain Bose condensate magnetometer achieves energy resolution per bandwidth below â„ Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	5
539	Spectroscopic probes of quantum gases. Nature Physics, 2021, 17, 1305-1315.	6.5	16
540	Programmable interactions and emergent geometry in an arrayÂof atom clouds. Nature, 2021, 600, 630-635.	13.7	78
541	Preparation of the Spin-Mott State: A Spinful Mott Insulator of Repulsively Bound Pairs. Physical Review Letters, 2022, 128, 093401.	2.9	6
542	On-demand generation of dark-bright soliton trains in Bose-Einstein condensates. Physical Review A, 2022, 105, .	1.0	2
543	Spin Entanglement and Magnetic Competition via Long-Range Interactions in Spinor Quantum Optical Lattices. Physical Review Letters, 2022, 128, 080601.	2.9	3
544	Propagating Ferrodark Solitons in a Superfluid: Exact Solutions and Anomalous Dynamics. Physical Review Letters, 2022, 128, 125301.	2.9	5
545	Non-Thermal Fixed Points in Bose Gas Experiments. Symmetry, 2022, 14, 678.	1.1	2
546	Algebraic theory of quantum synchronization and limit cycles under dissipation. SciPost Physics, 2022, 12, .	1.5	32

#	Article	IF	Citations
547	Quantum Phases of Time Order in Many-Body Ground States. Frontiers in Physics, 2022, 10, .	1.0	0
548	Atoms in a spin dependent optical potential: ground state topology and magnetization. New Journal of Physics, 2022, 24, 033041.	1.2	0
549	Superfluid to Mott-insulator transition in a 1D optical lattice. Chinese Physics B, 0, , .	0.7	0
550	Observing Dynamical Currents in a Non-Hermitian Momentum Lattice. Physical Review Letters, 2022, 128, 143602.	2.9	18
551	Excited-state quantum phase transitions in spin-orbit-coupled Bose gases. Physical Review Research, 2021, 3, .	1.3	9
552	Fast and high-yield loading of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>D</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> magneto-optical trap of potassium from a cryogenic buffer-gas beam. Physical Review A, 2021, 104, .	1.0	4
553	Emerging Dissipative Phases in a Superradiant Quantum Gas with Tunable Decay. Physical Review X, 2021, 11, .	2.8	28
554	Heisenberg-Limited Frequency Estimation via Driving Through Quantum Phase Transitions. Physical Review Applied, 2021, 16, .	1.5	2
555	Prime number factorization using a spinor Boseâ€“Einstein condensate-inspired topological quantum computer. Quantum Information Processing, 2022, 21, 1.	1.0	3
556	Spinor boson droplets stabilized by spin fluctuations. Physical Review A, 2022, 105, .	1.0	2
557	False-vacuum decay in an ultracold spin-1 Bose gas. Physical Review A, 2022, 105, .	1.0	7
558	Topological study of a Bogoliubovâ€“de Gennes system of pseudo-spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:math> bosons with conserved magnetization in a honeycomb lattice. Physical Review A, 2022, 105, .	1.0	2
559	Analog spacetimes from nonrelativistic Goldstone modes in spinor condensates. Physical Review A, 2022, 105, .	1.0	3
560	Josephson-like Oscillations in Toroidal Spinor Boseâ€“Einstein Condensates: A Prospective Symmetry Probe. Symmetry, 2022, 14, 867.	1.1	1
561	Existence, stability, and dynamics of monopole and Alice ring solutions in antiferromagnetic spinor condensates. Physical Review A, 2022, 105, .	1.0	9
562	Ultracold ion-atom experiments: cooling, chemistry, and quantum effects. Advances in Atomic, Molecular and Optical Physics, 2022, , .	2.3	0
563	Observation of photoassociation spectroscopy of ²³Na spinor Boseâ€“Einstein condensate. Physical Chemistry Chemical Physics, 2022, 24, 15135-15139.	1.3	1
564	Optical-plug-assisted spin vortex in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Rb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>87</mml:mn></mml:mmultiscripts></mml:math> dipolar spinor Bose-Einstein condensate. Physical Review A, 2022, 105, .	1.0	0

#	Article	IF	Citations
565	Ground States of the SU(3) Spinâ€“Orbit Coupled Spin-1 Boseâ€“Einstein Condensate in a Rotating Annular Potential. Journal of Low Temperature Physics, 0, , .	0.6	1
566	Topological excitations in rotating spin-orbit-coupled spin-1 Bose-Einstein condensates with in-plane gradient magnetic field. Communications in Theoretical Physics, 0, , .	1.1	0
567	Spin current in a spinor Boseâ€“Einstein condensate induced by a gradient magnetic field. Chinese Physics B, 2022, 31, 110302.	0.7	1
568	Elementary excitations in a spinâ€“orbit-coupled spin-1 Boseâ€“Einstein condensate. New Journal of Physics, 2022, 24, 073041.	1.2	7
569	Collective excitations in cigar-shaped spin-orbit-coupled spin-1 Bose-Einstein condensates. Physical Review A, 2022, 106, .	1.0	5
570	Dynamics of Rotating Spin-Orbit-Coupled Spin-1 Bose-Einstein Condensates With In-Plane Gradient Magnetic Field in an Anharmonic Trap. Frontiers in Physics, 0, 10, .	1.0	2
571	Core structure of static ferrodark solitons in a spin-1 Bose-Einstein condensate. Physical Review Research, 2022, 4, .	1.3	0
572	Asymmetry and nonlinearity of current-bias characteristics in superfluidâ€“normal-state junctions of weakly interacting Bose gases. Physical Review A, 2022, 106, .	1.0	2
573	Spin-nematic squeezing for dynamical quantum phase transitions in a spinor Bose-Einstein condensate. Physical Review A, 2022, 106, .	1.0	1
574	Semi-classical simulation of spin-1 magnets. Physical Review Research, 2022, 4, .	1.3	10
575	Ginzburgâ€“Landau models of nonlinear electric transmission networks. Physics Reports, 2022, 982, 1-124.	10.3	34
576	Broken-axisymmetry state and magnetic state diagram of spin-1 condensate through the prism of quadrupole degrees of freedom. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 405003.	0.7	1
577	Deep cooling scheme of quantum degenerate gas and ground experimental verification for chinese space station. Frontiers in Physics, 0, 10, .	1.0	2
578	Critical quantum thermometry and its feasibility in spin systems. Quantum - the Open Journal for Quantum Science, 0, 6, 808.	0.0	4
579	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="double-struck">C</mml:mi><mml:msup><mml:mi>P</mml:mi><mml:mn>2</mml:mn></mml:msup></mml:mrow></mml: skyrmion crystals in an SU(3) magnet with a generalized Dzyaloshinskii-Moriya interaction. Physical Review B, 2022, 106, .	1.1	5
580	Spin-flip-induced superfluidity in a ring of spinful hard-core bosons. Physical Review A, 2022, 106, .	1.0	0
581	Manifold formation and crossings of ultracold lattice spinor atoms in the intermediate interaction regime. Physical Review A, 2022, 106, .	1.0	0
582	Many-body excitations in trapped Bose gas: A non-Hermitian approach. Quarterly of Applied Mathematics, 2023, 81, 87-126.	0.5	1

#	Article	IF	Citations
583	Ground experiment verification and on-orbit prediction of the two-stage cooling at pK level in the Chinese space station. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 205301.	0.6	3
584	Coherent quantum state transfer in ultra-cold chemistry. European Physical Journal D, 2022, 76, .	0.6	1
585	Method of dynamic resonance tuning in spintronics of nanosystems. Laser Physics Letters, 2022, 19, 116001.	0.6	1
586	Optical spin conductivity in ultracold quantum gases. Physical Review Research, 2022, 4, .	1.3	3
588	Condensation and thermalization of an easy-plane ferromagnet in a spinor Bose gas. Nature Physics, 2022, 18, 1459-1463.	6.5	2
589	Synthetic U(1) gauge invariance in a spin-1 Bose gas. Physical Review Research, 2022, 4, .	1.3	2
590	Supersolid-like solitons in two-dimensional nonmagnetic spin-orbit coupled spin-1 and spin-2 condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 455, 128507.	0.9	1
591	Entanglement-enhanced test proposal for local Lorentz-symmetry violation via spinor atoms. Quantum - the Open Journal for Quantum Science, 0, 6, 859.	0.0	2
592	Classical and Quantum chaos in a spin-1 atomic Boseâ€“Einstein condensate via Floquet driving. Results in Physics, 2022, 43, 106091.	2.0	1
593	Statistical model of a superfluid solid. Physics Letters, Section A: General, Atomic and Solid State Physics, 2023, 457, 128559.	0.9	1
594	Complex Langevin approach to interacting Bose gases. Physical Review A, 2022, 106, .	1.0	4
595	Dipolar physics: a review of experiments with magnetic quantum gases. Reports on Progress in Physics, 2023, 86, 026401.	8.1	96
596	Interplay of the Staggered and Threeâ€Body Interaction Potentials on the Quantum Phases of a Spinâ€1 Ultracold Atom in an Optical Lattice. Annalen Der Physik, 0, , 2200482.	0.9	0
597	Soliton Solutions of the Spin-Orbit Coupled Binary Bose-Einstein Condensate System. Wuli Xuebao/Acta Physica Sinica, 2023, .	0.2	0
598	Two-component three-dimensional atomic Bose-Einstein condensates supporting complex stable patterns. Physical Review A, 2023, 107, .	1.0	2
599	Stability and dynamics across magnetic phases of vortex-bright type excitations in spinor Bose-Einstein condensates. Physical Review A, 2023, 107, .	1.0	3
600	Self-Induced Valley Bosonic Stimulation of Exciton Polaritons in a Monolayer Semiconductor. Physical Review Letters, 2023, 130, .	2.9	2
601	Berezinskii-Kosterlitz-Thouless transitions in an easy-plane ferromagnetic superfluid. Physical Review Research, 2023, 5, .	1.3	1

#	Article	IF	Citations
602	Superfluidity in multicomponent fermions via the functional renormalization group. Nuclear Physics B, 2023, , 116192.	0.9	0
603	Magnetized and unmagnetized phases of trapped spin-orbit coupled spin-1 Bose-Einstein condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2023, 471, 128801.	0.9	1
604	Dynamical quantum phase transitions in a spinor Bose-Einstein condensate and criticality enhanced quantum sensing. Physical Review Research, 2023, 5, .	1.3	7
605	Non-Gaussian entanglement criteria for atomic homodyne detection. Physical Review A, 2023, 107, .	1.0	0
606	Spinor Bose-Einstein condensates. Contemporary Physics, 2022, 63, 106-115.	0.8	0
607	Controlled nonautonomous matterâ€“wave solitons in spinor Boseâ€“Einstein condensates with spatiotemporal modulation. Chaos, Solitons and Fractals, 2023, 169, 113247.	2.5	16
608	Collective excitation of Boseâ€“Einstein condensate of ²³Na via high-partial wave Feshbach resonance. New Journal of Physics, 2023, 25, 023032.	1.2	0
609	Separation of quadrupole, spin, and charge across the magnetic phases of a one-dimensional interacting spin-1 gas. Physical Review B, 2023, 107, .	1.1	0
610	Engineering Matter-Wave Solitons in Spinor Bose-Einstein Condensates. , 2022, , 373-394.		0
611	Polarized Rabi-coupled and spinor boson droplets. Physical Review A, 2023, 107, .	1.0	0
613	Nonequilibrium dynamics of fluctuations in an ultracold atomic mixture. Physical Review A, 2023, 107, .	1.0	0
614	Excited-state quantum phase transitions and Loschmidt-echo spectra in a spinor Bose-Einstein condensate. Physical Review A, 2023, 107, .	1.0	1
615	Finite-temperature ferromagnetic transition in coherently coupled Bose gases. Physical Review A, 2023, 107, .	1.0	1
616	Quantum simulator of link models using spinor dipolar ultracold atoms. Physical Review A, 2023, 107, .	1.0	2
617	Bubble nucleation in a cold spin 1 gas. New Journal of Physics, 2023, 25, 043028.	1.2	2
618	Nonlinear modes coupling of trapped spin-orbit coupled spin-1 Bose-Einstein Condensates. Chinese Physics B, 0, , .	0.7	0