List of Publications by Year in descending order

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Wu-Minc Lui

#	Article	IF	CITATIONS
1	Nonlinear Effects in Interference of Bose-Einstein Condensates. Physical Review Letters, 2000, 84, 2294-2297.	2.9	180
2	Quantum spin Hall insulators with interactions and lattice anisotropy. Physical Review B, 2012, 85, .	1.1	127
3	Adiabatic Dynamics of Local Spin Moments in Itinerant Magnets. Physical Review Letters, 1999, 83, 207-210.	2.9	112
4	Kondo Metal and Ferrimagnetic Insulator on the Triangular Kagome Lattice. Physical Review Letters, 2012, 108, 246402.	2.9	90
5	Interacting Dirac fermions on honeycomb lattice. Physical Review B, 2010, 82, .	1.1	75
6	Spatiotemporal engineering of matter-wave solitons in Bose–Einstein condensates. Physics Reports, 2021, 899, 1-62.	10.3	73
7	Stacked bilayer phosphorene: strain-induced quantum spin Hall state and optical measurement. Scientific Reports, 2015, 5, 13927.	1.6	64
8	Supersolid with nontrivial topological spin textures in spin-orbit-coupled Bose gases. Physical Review A, 2015, 91, .	1.0	54
9	Circular-hyperbolic skyrmion in rotating pseudo-spin-1/2 Bose-Einstein condensates with spin-orbit coupling. Physical Review A, 2012, 86, .	1.0	50
10	Vortex chain in anisotropic spin-orbit-coupled spin-1 Bose-Einstein condensates. Physical Review A, 2013, 87, .	1.0	42
11	Controlled Electromagnetically Induced Transparency and Fano Resonances in Hybrid BEC-Optomechanics. Scientific Reports, 2016, 6, 22651.	1.6	42
12	The d-p band-inversion topological insulator in bismuth-based skutterudites. Scientific Reports, 2014, 4, 5131.	1.6	34
13	Double-quantum spin vortices in SU(3) spin-orbit-coupled Bose gases. Physical Review A, 2016, 94, .	1.0	33
14	Non-autonomous solitons in inhomogeneous nonlinear media with distributed dispersion. Nonlinear Dynamics, 2019, 97, 449-469.	2.7	33
15	Theory of ferromagnetic resonance in magnetic trilayers with a tilted spin polarizer. Physical Review B, 2008, 78, .	1.1	29
16	Frequency-selected enhancement of high-order-harmonic generation by interference of degenerate Rydberg states in a few-cycle laser pulse. Physical Review A, 2012, 86, .	1.0	28
17	Fragmentation of spin-orbit-coupled spinor Bose-Einstein condensates. Physical Review A, 2014, 89, .	1.0	28
18	Tunable Bistability in Hybrid Bose-Einstein Condensate Optomechanics. Scientific Reports, 2015, 5, 10612.	1.6	28

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19	Quantum phase transition in an array of coupled dissipative cavities. Physical Review A, 2011, 83, .	1.0	27
20	Finite-Component Multicriticality at the Superradiant Quantum Phase Transition. Physical Review Letters, 2020, 125, 050402.	2.9	27
21	<i>Zitterbewegung</i> effect in spin-orbit-coupled spin-1 ultracold atoms. Physical Review A, 2013, 87, .	1.0	26
22	Ground-state properties of spin-orbit-coupled Bose gases for arbitrary interactions. Physical Review A, 2013, 87, .	1.0	26
23	Electron-Phonon Coupling and its implication for the superconducting topological insulators. Scientific Reports, 2015, 5, 8964.	1.6	25
24	Quantum magnetic phase transition in square-octagon lattice. Scientific Reports, 2015, 4, 6918.	1.6	24
25	Tuning near-gap electronic structure, interface charge transfer and visible light response of hybrid doped graphene and Ag3PO4 composite: Dopant effects. Scientific Reports, 2016, 6, 22267.	1.6	24
26	Collapses and revivals of exciton emission in a semiconductor microcavity: Detuning and phase-space filling effects. Physical Review A, 2004, 70, .	1.0	23
27	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
28	Universal Bose gases near resonance: A rigorous solution. Physical Review A, 2014, 89, .	1.0	22
29	Auxiliary-cavity-assisted ground-state cooling of an optically levitated nanosphere in the unresolved-sideband regime. Physical Review A, 2017, 96, .	1.0	22
30	Spin-orbit-coupling-induced backaction cooling in cavity optomechanics with a Bose-Einstein condensate. Physical Review A, 2017, 95, .	1.0	20
31	Quantum dynamical speedup in correlated noisy channels. Physical Review A, 2019, 100, .	1.0	20
32	Layer Anti-Ferromagnetism on Bilayer Honeycomb Lattice. Scientific Reports, 2014, 4, 5367.	1.6	19
33	Defective Majorana zero modes in a non-Hermitian Kitaev chain. Physical Review B, 2021, 104, .	1.1	19
34	Ground states, solitons and spin textures in spin-1 Bose-Einstein condensates. Frontiers of Physics, 2013, 8, 302-318.	2.4	18
35	Collective modes of spin-orbit-coupled Fermi gases in the repulsive regime. Physical Review A, 2013, 87, .	1.0	18
36	Current-driven ferromagnetic resonance in magnetic trilayers with a tilted spin polarizer. Journal of Applied Physics, 2009, 105, 043908.	1.1	17

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37	Crystallized and amorphous vortices in rotating atomic-molecular Bose-Einstein condensates. Scientific Reports, 2015, 4, 4224.	1.6	17
38	Stability of a two-dimensional homogeneous spin-orbit-coupled boson system. Physical Review A, 2013, 87, .	1.0	16
39	Drag force on a moving impurity in a spin-orbit-coupled Bose-Einstein condensate. Physical Review A, 2014, 89, .	1.0	16
40	The confinement induced resonance in spin-orbit coupled cold atoms with Raman coupling. Scientific Reports, 2015, 4, 4992.	1.6	16
41	Exact solutions for generalized variable-coefficients Ginzburg-Landau equation: Application to Bose-Einstein condensates with multi-body interatomic interactions. Journal of Mathematical Physics, 2012, 53, .	0.5	15
42	Feynman relation of Bose-Einstein condensates with spin-orbit coupling. Physical Review A, 2012, 86, .	1.0	15
43	Tunable topological quantum states in three- and two-dimensional materials. Frontiers of Physics, 2015, 10, 161-176.	2.4	15
44	Three-dimensional ring vortex solitons and their stabilities in Bose-Einstein condensates under magnetic confinement. Physical Review A, 2012, 86, .	1.0	14
45	Quantum magnetism of spinor bosons in optical lattices with synthetic non-Abelian gauge fields. Physical Review A, 2015, 92, .	1.0	14
46	Phase transitions of the ionic Hubbard model on the honeycomb lattice. Scientific Reports, 2015, 5, 9810.	1.6	14
47	The polarization and the fundamental sensitivity of 39K (133Cs)-85Rb-4He hybrid optical pumping spin exchange relaxation free atomic magnetometers. Scientific Reports, 2017, 7, 6776.	1.6	14
48	Topological transition from superfluid vortex rings to isolated knots and links. Physical Review A, 2020, 102, .	1.0	13
49	Anomalous non-Abelian statistics for non-Hermitian generalization of Majorana zero modes. Physical Review B, 2021, 104, .	1.1	13
50	Quantum phase transitions for two coupled cavities with dipole-interaction atoms. Physical Review A, 2011, 84, .	1.0	12
51	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
52	Antiferromagnetic Metal and Mott Transition on Shastry-Sutherland Lattice. Scientific Reports, 2015, 4, 4829.	1.6	12
53	Dynamics of vortex quadrupoles in nonrotating trapped Bose-Einstein condensates. Scientific Reports, 2016, 6, 29066.	1.6	12
54	Management of modulated wave solitons in a two-dimensional nonlinear transmission network. European Physical Journal B, 2019, 92, 1.	0.6	12

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55	Near-infrared dual-wavelength plasmonic switching and digital metasurface unveiled by plasmonic Fano resonance. Nanophotonics, 2020, 10, 947-957.	2.9	12
56	Coherence lengths in attractively interacting Fermi gases with spin-orbit coupling. Physical Review A, 2014, 90, .	1.0	11
57	Robust large-gap quantum spin Hall insulators in methyl-functionalized III-Bi buckled honeycombs. Physical Review Materials, 2018, 2, .	0.9	11
58	Non-Hermitian spectrum and multistability in exciton-polariton condensates. Physical Review B, 2021, 104, .	1.1	11
59	Enhancing the performance of an open quantum battery via environment engineering. Physical Review E, 2021, 104, 064143.	0.8	11
60	Bragg diffraction of interacting Bose-Einstein condensates. Physical Review A, 2010, 82, .	1.0	10
61	Collapse of the superradiant phase and multiple quantum phase transitions for Bose-Einstein condensates in an optomechanical cavity. Physical Review A, 2016, 93, .	1.0	10
62	Magnetic diversity in stable and metastable structures of CrAs. Physical Review B, 2017, 96, .	1.1	9
63	Classification of the quantum chaos in colored Sachdev-Ye-Kitaev models. Physical Review D, 2020, 101,	1.6	9
64	Interface-induced ferroelectric domains and charged domain walls in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Bi</mml:mi><mml:mi>Femathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:mrow><mml:mo>/</mml:mo>< mathvariant="normal">O<mml:mn>3</mml:mn> superlattices. Physical Review B, 2021, 103</mml:math 	ni> <mml:n mmıl:mrov</mml:n 	nsub> <mml:m v><gmml:mi>S</gmml:mi></mml:m
65	Quantum dynamics of a vortex in a Josephson junction. Physical Review B, 2005, 72, .	1.1	8
66	Tuning a magnetic Feshbach resonance with spatially modulated laser light. Physical Review A, 2014, 90, .	1.0	8
67	Finite-field calculation of static polarizabilities and hyperpolarizabilities ofIn+and Sr. Physical Review A, 2015, 92, .	1.0	8
68	Negative differential conductance and super-Poissonian shot noise in single-molecule magnet junctions. Scientific Reports, 2015, 5, 8730.	1.6	8
69	Non-Markovian full counting statistics in quantum dot molecules. Scientific Reports, 2015, 5, 8978.	1.6	8
70	ltinerant magnetic phases and quantum Lifshitz transitions in a three-dimensional repulsively interacting Fermi gas with spin-orbit coupling. Physical Review B, 2016, 94, .	1.1	8
71	Unified and Exact Framework for Variance-Based Uncertainty Relations. Scientific Reports, 2020, 10, 150.	1.6	8
72	Superfluid density and collective modes of fermion superfluid in dice lattice. Scientific Reports, 2021, 11, 13572.	1.6	8

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73	Dynamics of Bose-Einstein condensates near Feshbach resonance in external potential. Frontiers of Physics, 2011, 6, 46-60.	2.4	7
74	Quantum phase transition of cold atoms trapped in optical lattices. Frontiers of Physics, 2012, 7, 223-234.	2.4	7
75	Exact wave solutions for Bose–Einstein condensates with time-dependent scattering length and spatiotemporal complicated potential. Journal of Mathematical Physics, 2013, 54, 051501.	0.5	7
76	Universal Dissipationless Dynamics in Gaussian Continuous-Variable Open Systems. Physical Review Letters, 2018, 121, 220403.	2.9	7
77	Three-Dimensional Skyrmions with Arbitrary Topological Number in a Ferromagnetic Spin-1 Bose-Einstein Condensate. Scientific Reports, 2019, 9, 18804.	1.6	7
78	Formation of vortex rings and hopfions in trapped Bose–Einstein condensates. Physics of Fluids, 2021, 33, 027105.	1.6	7
79	Negative magnetoresistance and spin filtering of spin-coupled di-iron-oxo clusters. Physical Review B, 2014, 89, .	1.1	6
80	Classification of magnons in rotated ferromagnetic Heisenberg model and their competing responses in transverse fields. Physical Review B, 2016, 94, .	1.1	6
81	Localized spatially nonlinear matter waves in atomic-molecular Bose-Einstein condensates with space-modulated nonlinearity. Scientific Reports, 2016, 6, 29566.	1.6	6
82	Multiply quantized and fractional skyrmions in a binary dipolar Bose-Einstein condensate under rotation. Physical Review A, 2017, 96, .	1.0	6
83	The effect of oscillator and dipole-dipole interaction on multiple optomechanically induced transparency in cavity optomechanical system. Scientific Reports, 2018, 8, 14367.	1.6	6
84	Topological transition and Majorana zero modes in 2D non-Hermitian chiral superconductor with anisotropy. Journal of Physics Condensed Matter, 2022, 34, 195401.	0.7	6
85	ltinerant chiral ferromagnetism in a trapped Rashba spin-orbit-coupled Fermi gas. Physical Review A, 2016, 93, .	1.0	5
86	Social distancing mediated generalized model to predict epidemic spread of COVID-19. Nonlinear Dynamics, 2021, 106, 1187-1195.	2.7	5
87	Tunable quantum switcher and router of single atoms using localized artificial magnetic fields. Physical Review Research, 2020, 2, .	1.3	5
88	Spin-orbit coupling controlling the topological vortical phase transition in spin-2 rotating Bose-Einstein condensates. Physical Review A, 2021, 104, .	1.0	5
89	Quantum tunneling of ultracold atoms in optical traps. Frontiers of Physics, 2014, 9, 137-152.	2.4	4
90	Quantum phase transitions of light in a dissipative Dicke-Bose-Hubbard model. Physical Review A, 2017, 96, .	1.0	4

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91	Vortex-Meissner phase transition induced by a two-tone-drive-engineered artificial gauge potential in the fermionic ladder constructed by superconducting qubit circuits. Physical Review A, 2020, 102, .	1.0	4
92	Quantum speedup in noninertial frames. European Physical Journal C, 2020, 80, 1.	1.4	4
93	Nonlinear dynamics of a Bose-Einstein condensate excited by a vortex ring phase imprinting. Results in Physics, 2021, 22, 103828.	2.0	4
94	Non-Floquet engineering in periodically driven dissipative open quantum systems. Journal of Physics Condensed Matter, 2022, 34, 365402.	0.7	4
95	Fermionic non-Abelian fractional Chern insulators from dipolar interactions. Physical Review B, 2015, 91, .	1.1	3
96	Robust Majorana edge modes with low frequency multiple time periodic driving. Journal of Physics Condensed Matter, 2020, 32, 355404.	0.7	3
97	Topological supersolidity of dipolar Fermi gases in a spin-dependent optical lattice. Journal of Physics Condensed Matter, 2020, 32, 235701.	0.7	3
98	Supersolid phase of cold atoms. European Physical Journal D, 2020, 74, 1.	0.6	3
99	On the propagation of nonlinear signals in nonlinear transmission lines. European Physical Journal Plus, 2013, 128, 1.	1.2	2
100	Modulational instability of Bose-Einstein condensate in a complex polynomial in elliptic Jacobian functions potential. European Physical Journal B, 2013, 86, 1.	0.6	2
101	Adjustable electromagnetically induced transparency and absorption, optical controlled-phase gate in semiconductor quantum wells. European Physical Journal D, 2014, 68, 1.	0.6	2
102	Tunable spinful matter wave valve. Scientific Reports, 2019, 9, 8653.	1.6	2
103	Ergodic time scale and transitive dynamics in single-particle tracking. Physical Review E, 2021, 103, 032136.	0.8	2
104	Multipartite Entanglement Structure Resolution Analyzer Based on Quantum ontrolâ€Assisted Multipartite Uncertainty Relation. Annalen Der Physik, 2021, 533, 2100014.	0.9	2
105	Excitation spectra and hard-core thermodynamics of bosonic atoms in optical superlattices. Physical Review A, 2015, 91, .	1.0	1
106	Enhanced Fulde-Ferrell-Larkin-Ovchinnikov and Sarma superfluid states near an orbital Feshbach resonance. Physical Review A, 2019, 100, .	1.0	1
107	Superfluid–Mott-insulator quantum phase transition in a cavity optomagnonic system. Physical Review A, 2022, 105,	1.0	1
108	Enhancing the precision of a phase measurement through phase-sensitive non-Gaussianity. Physical Review A, 2022, 105, .	1.0	1

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109	First-order metal–ferromagnetic insulator phase transition induced by Rashba spin-orbit coupling on the puckered honeycomb lattice. Journal of Physics Condensed Matter, 2021, 33, 335603.	0.7	0

110 Dynamics of Bose-Einstein Condensates. , 2006, , .