

Wu-Ming Liu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4968458/wu-ming-liu-publications-by-citations.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139 papers	4,596 citations	40 h-index	62 g-index
152 ext. papers	5,194 ext. citations	3.4 avg, IF	5.79 L-index

#	Paper	IF	Citations
139	Dynamics of a bright soliton in Bose-Einstein condensates with time-dependent atomic scattering length in an expulsive parabolic potential. <i>Physical Review Letters</i> , 2005 , 94, 050402	7.4	325
138	Exact soliton solutions and nonlinear modulation instability in spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2005 , 72,	2.6	165
137	Dynamical creation of fractionalized vortices and vortex lattices. <i>Physical Review Letters</i> , 2008 , 101, 010402	7.4	155
136	Quantum tunneling of Bose-Einstein condensates in optical lattices under gravity. <i>Physical Review Letters</i> , 2002 , 88, 170408	7.4	139
135	Quantum anomalous Hall effect and tunable topological states in 3d transition metals doped silicene. <i>Scientific Reports</i> , 2013 , 3, 2908	4.9	137
134	Localization and the Kosterlitz-Thouless transition in disordered graphene. <i>Physical Review Letters</i> , 2009 , 102, 106401	7.4	133
133	Quantized quasi-two-dimensional Bose-Einstein condensates with spatially modulated nonlinearity. <i>Physical Review A</i> , 2010 , 81,	2.6	105
132	Entanglement control in an anisotropic two-qubit Heisenberg XYZ model with external magnetic fields. <i>Physical Review A</i> , 2006 , 74,	2.6	99
131	Temperature-dependent photoluminescence in light-emitting diodes. <i>Scientific Reports</i> , 2014 , 4, 6131	4.9	90
130	Matter rogue wave in Bose-Einstein condensates with attractive atomic interaction. <i>European Physical Journal D</i> , 2011 , 64, 473-478	1.3	90
129	Vector solitons in two-component Bose-Einstein condensates with tunable interactions and harmonic potential. <i>Physical Review A</i> , 2009 , 79,	2.6	88
128	Controlling soliton interactions in Bose-Einstein condensates by synchronizing the Feshbach resonance and harmonic trap. <i>Physical Review A</i> , 2008 , 77,	2.6	85
127	Activating VS ₂ basal planes for enhanced NRR electrocatalysis: the synergistic role of S-vacancies and B dopants. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16195-16202	13	85
126	Realization of high-luminous-efficiency InGaN light-emitting diodes in the "green gap" range. <i>Scientific Reports</i> , 2015 , 5, 10883	4.9	81
125	Semiclassical time evolution of the holes from Luttinger Hamiltonian. <i>Physical Review B</i> , 2005 , 72,	3.3	81
124	Kondo metal and ferrimagnetic insulator on the triangular kagome lattice. <i>Physical Review Letters</i> , 2012 , 108, 246402	7.4	76
123	Exact solutions of the derivative nonlinear Schrödinger equation for a nonlinear transmission line. <i>Physical Review E</i> , 2006 , 73, 026603	2.4	74

122	Interacting Dirac fermions on honeycomb lattice. <i>Physical Review B</i> , 2010 , 82,	3.3	72
121	Solitons in Bose-Einstein condensates with time-dependent atomic scattering length in an expulsive parabolic and complex potential. <i>Physical Review A</i> , 2008 , 78,	2.6	70
120	Evolution equation of entanglement for bipartite systems. <i>Physical Review A</i> , 2009 , 79,	2.6	67
119	Formation and transformation of vector solitons in two-species Bose-Einstein condensates with a tunable interaction. <i>Physical Review A</i> , 2009 , 79,	2.6	62
118	Metal-free N, S co-doped graphene for efficient and durable nitrogen reduction reaction. <i>Journal of Materials Science</i> , 2019 , 54, 9088	4.3	61
117	Crystallized half-skyrmions and inverted half-skyrmions in the condensation of spin-1 Bose gases with spin-orbit coupling. <i>Physical Review A</i> , 2012 , 86,	2.6	59
116	Localized nonlinear matter waves in two-component Bose-Einstein condensates with time- and space-modulated nonlinearities. <i>Physical Review A</i> , 2010 , 82,	2.6	58
115	Magnetic soliton and soliton collisions of spinor Bose-Einstein condensates in an optical lattice. <i>Physical Review A</i> , 2005 , 71,	2.6	58
114	Stacked bilayer phosphorene: strain-induced quantum spin Hall state and optical measurement. <i>Scientific Reports</i> , 2015 , 5, 13927	4.9	55
113	Tuning the tricritical point with spin-orbit coupling in polarized fermionic condensates. <i>Physical Review Letters</i> , 2012 , 108, 080406	7.4	55
112	Quantum blockade and loop currents in graphene with topological defects. <i>Physical Review B</i> , 2008 , 78,	3.3	55
111	Exact solutions of the Gross-Pitaevskii equation for stable vortex modes in two-dimensional Bose-Einstein condensates. <i>Physical Review A</i> , 2010 , 81,	2.6	54
110	Controlling phase separation of a two-component Bose-Einstein condensate by confinement. <i>Physical Review A</i> , 2012 , 85,	2.6	53
109	Magnetic quantum phase transition of cold atoms in an optical lattice. <i>Physical Review A</i> , 2007 , 76,	2.6	53
108	Unified minimum effective model of magnetic properties of iron-based superconductors. <i>Physical Review B</i> , 2012 , 85,	3.3	51
107	Spin-orbit-coupling-induced half-skyrmion excitations in rotating and rapidly quenched spin-1 Bose-Einstein condensates. <i>Physical Review A</i> , 2012 , 86,	2.6	49
106	Abelian and non-Abelian quantum geometric tensor. <i>Physical Review B</i> , 2010 , 81,	3.3	48
105	Magnetic solitons of spinor Bose-Einstein condensates in an optical lattice. <i>Physical Review A</i> , 2004 , 69,	2.6	48

104	Nonlinear dynamics of a dipolar Bose-Einstein condensate in an optical lattice. <i>Physical Review A</i> , 2005 , 71,	2.6	48
103	Domain-wall resonance induced by spin-polarized current in metal thin films with stripe structures. <i>Physical Review B</i> , 2005 , 72,	3.3	46
102	Supersolid with nontrivial topological spin textures in spin-orbit-coupled Bose gases. <i>Physical Review A</i> , 2015 , 91,	2.6	45
101	Nonautonomous matter waves in a waveguide. <i>Physical Review A</i> , 2011 , 84,	2.6	42
100	Simulating and detecting the quantum spin Hall effect in the kagome optical lattice. <i>Physical Review A</i> , 2010 , 82,	2.6	40
99	Increase in thermal stability induced by organic coatings on nanoparticles. <i>Physical Review B</i> , 2004 , 70,	3.3	39
98	Dynamics and modulation of ring dark solitons in two-dimensional Bose-Einstein condensates with tunable interaction. <i>Physical Review A</i> , 2009 , 79,	2.6	37
97	Phase diagram of two-species Bose-Einstein condensates in an optical lattice. <i>Physical Review A</i> , 2005 , 71,	2.6	37
96	Nonlinear optical behavior of a four-level quantum well with coupled relaxation of optical and longitudinal phonons. <i>Physical Review A</i> , 2011 , 84,	2.6	35
95	Circular-hyperbolic skyrmion in rotating pseudo-spin-1/2 Bose-Einstein condensates with spin-orbit coupling. <i>Physical Review A</i> , 2012 , 86,	2.6	35
94	Localized gap-soliton trains of Bose-Einstein condensates in an optical lattice. <i>Physical Review E</i> , 2008 , 78, 026606	2.4	34
93	Bound of entanglement of assistance and monogamy constraints. <i>Physical Review A</i> , 2009 , 80,	2.6	33
92	Ground state of spin-1 Bose-Einstein condensates with spin-orbit coupling in a Zeeman field. <i>Physical Review A</i> , 2012 , 86,	2.6	31
91	Interacting domain walls in an easy-plane ferromagnet. <i>Physical Review B</i> , 2002 , 65,	3.3	30
90	Cold atoms in a two-dimensional triangular optical lattice as an artificial frustrated system. <i>Physical Review A</i> , 2010 , 82,	2.6	29
89	Domain-wall solutions of spinor Bose-Einstein condensates in an optical lattice. <i>Physical Review A</i> , 2010 , 81,	2.6	29
88	Matter-wave solitons of Bose-Einstein condensates in a time-dependent complicated potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 245303	1.3	28
87	Topological superfluid transition induced by a periodically driven optical lattice. <i>Physical Review A</i> , 2012 , 86,	2.6	28

86	Hartree-Fock-Bogoliubov theory of dipolar Fermi gases. <i>Physical Review A</i> , 2010 , 81,	2.6	27
85	Spin-orbit-coupled Bose-Einstein condensates confined in concentric coupled annular traps. <i>Physical Review A</i> , 2012 , 86,	2.6	26
84	Ground-state properties of spin-orbit-coupled Bose gases for arbitrary interactions. <i>Physical Review A</i> , 2013 , 87,	2.6	26
83	Instantons in a ferromagnetic spin chain with biaxial anisotropy. <i>Physical Review B</i> , 2009 , 79,	3.3	26
82	Superfluid-Mott-insulator transition of dipolar bosons in an optical lattice. <i>Physical Review A</i> , 2004 , 70,	2.6	25
81	Non-autonomous solitons in inhomogeneous nonlinear media with distributed dispersion. <i>Nonlinear Dynamics</i> , 2019 , 97, 449-469	5	23
80	Evaluating the exfoliation of two-dimensional materials with a Green's function surface model. <i>Physical Review B</i> , 2020 , 101,	3.3	23
79	Spontaneous crystallization of skyrmions and fractional vortices in fast-rotating and rapidly quenched spin-1 Bose-Einstein condensates. <i>Physical Review A</i> , 2011 , 84,	2.6	23
78	Nucleation and reshaping thermodynamics of Ni as catalyst of carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	23
77	Spatiotemporal engineering of matter-wave solitons in Bose-Einstein condensates. <i>Physics Reports</i> , 2021 , 899, 1-62	27.7	23
76	Phase engineering, modulational instability, and solitons of Gross-Pitaevskii-type equations in 1+1 dimensions. <i>Physical Review E</i> , 2013 , 87, 022914	2.4	22
75	Light-scattering detection of quantum phases of ultracold atoms in optical lattices. <i>Physical Review A</i> , 2011 , 83,	2.6	21
74	Unbounded quantum Fisher information in two-path interferometry with finite photon number. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013 , 46, 035302	2	20
73	Dynamics of geometric discord and measurement-induced nonlocality at finite temperature. <i>European Physical Journal D</i> , 2012 , 66, 1	1.3	19
72	Quantum magnetic phase transition in square-octagon lattice. <i>Scientific Reports</i> , 2014 , 4, 6918	4.9	18
71	Dynamics of modulated waves in a lossy modified Noguchi electrical transmission line. <i>Physical Review E</i> , 2015 , 91, 062915	2.4	18
70	Modeling of matter-wave solitons in a nonlinear inductor-capacitor network through a Gross-Pitaevskii equation with time-dependent linear potential. <i>Physical Review E</i> , 2017 , 96, 022221	2.4	17
69	Dipole-dipole interaction in a photonic crystal nanocavity. <i>Physical Review A</i> , 2012 , 85,	2.6	17

68	Topological quantum phase transition in synthetic non-Abelian gauge potential: gauge invariance and experimental detections. <i>Scientific Reports</i> , 2013 , 3, 2119	4.9	17
67	Layer anti-ferromagnetism on bilayer honeycomb lattice. <i>Scientific Reports</i> , 2014 , 4, 5367	4.9	16
66	Theory of orbital magnetization in disordered systems. <i>Physical Review B</i> , 2012 , 86,	3.3	16
65	Generation of ring dark solitons by phase engineering and their oscillations in spin-1 Bose-Einstein condensates. <i>Physical Review A</i> , 2012 , 85,	2.6	16
64	Explicit solutions to an effective Gross-Pitaevskii equation: One-dimensional Bose-Einstein condensate in specific traps. <i>Journal of Mathematical Physics</i> , 2008 , 49, 023503	1.2	16
63	High-responsivity vertical-illumination Si/Ge uni-traveling-carrier photodiodes based on silicon-on-insulator substrate. <i>Scientific Reports</i> , 2016 , 6, 27743	4.9	15
62	Indium segregation measured in InGaN quantum well layer. <i>Scientific Reports</i> , 2014 , 4, 6734	4.9	14
61	Engineering rogue waves with quintic nonlinearity and nonlinear dispersion effects in a modified Noguchi nonlinear electric transmission network. <i>Physical Review E</i> , 2020 , 102, 012203	2.4	14
60	Dynamics of a degenerate Fermi gas in a one-dimensional optical lattice coupled to a cavity. <i>Physical Review A</i> , 2011 , 83,	2.6	14
59	Solitary signals in electrical nonlinear transmission line. <i>Journal of Mathematical Physics</i> , 2007 , 48, 013508	2.2	14
58	Transmission of rogue wave signals through a modified Noguchi electrical transmission network. <i>Physical Review E</i> , 2019 , 99, 062222	2.4	13
57	Schrödinger Equations in Nonlinear Systems 2019 ,		13
56	Management of matter-wave solitons in Bose-Einstein condensates with time-dependent atomic scattering length in a time-dependent parabolic complex potential. <i>Physical Review E</i> , 2018 , 98, 012204	2.4	13
55	Closed-Loop Control of Compensation Point in the $KBr/^{21}Ne$ Comagnetometer. <i>Physical Review Applied</i> , 2019 , 12,	4.3	13
54	Directed coherent transport due to the Bloch oscillation in two dimensions. <i>Physical Review A</i> , 2010 , 82,	2.6	13
53	Effect on cavity optomechanics of the interaction between a cavity field and a one-dimensional interacting bosonic gas. <i>Physical Review A</i> , 2011 , 84,	2.6	13
52	Quantum quench dynamics of the Bose-Hubbard model at finite temperatures. <i>Physical Review A</i> , 2011 , 83,	2.6	13
51	Nanodevices engineering and spin transport properties of $MnBi_2Te_4$ monolayer. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	13

50	Tunable topological quantum states in three- and two-dimensional materials. <i>Frontiers of Physics</i> , 2015 , 10, 161-176	3.7	12
49	Magnetism and high magnetic-field-induced stability of alloy carbides in Fe-based materials. <i>Scientific Reports</i> , 2018 , 8, 3049	4.9	12
48	Half-vortex sheets and domain-wall trains of rotating two-component Bose-Einstein condensates in spin-dependent optical lattices. <i>Physical Review A</i> , 2012 , 85,	2.6	12
47	BRIGHT SOLITONS MANAGED BY FESHBACH RESONANCE IN BOSE-EINSTEIN CONDENSATES. <i>Modern Physics Letters A</i> , 2006 , 21, 383-397	1.3	12
46	Topological defect formation in rotating binary dipolar Bose-Einstein condensate. <i>Annals of Physics</i> , 2016 , 375, 368-377	2.5	11
45	Evolution equation for entanglement of assistance. <i>Physical Review A</i> , 2010 , 81,	2.6	11
44	Solitonlike pulses along a modified Noguchi nonlinear electrical network with second-neighbor interactions: Analytical studies. <i>Physical Review E</i> , 2018 , 97, 052205	2.4	10
43	Probing the quantum ground state of a spin-1 Bose-Einstein condensate with cavity transmission spectra. <i>Physical Review A</i> , 2009 , 80,	2.6	10
42	Spin-orbit coupling manipulating composite topological spin textures in atomic-molecular Bose-Einstein condensates. <i>Physical Review A</i> , 2017 , 95,	2.6	9
41	Fidelity susceptibility and topological phase transition of a two-dimensional spin-orbit-coupled Fermi superfluid. <i>Physical Review A</i> , 2014 , 89,	2.6	9
40	Matter-wave solitons in heteronuclear atomic Bose-Einstein condensates with synchronously controllable interactions and potentials. <i>Physical Review A</i> , 2011 , 84,	2.6	9
39	Optimized fringe removal algorithm for absorption images. <i>Applied Physics Letters</i> , 2018 , 113, 144103	3.4	9
38	Strong thermalization of the two-component Bose-Hubbard model at finite temperatures. <i>Physical Review A</i> , 2012 , 85,	2.6	8
37	Dynamics of vortex quadrupoles in nonrotating trapped Bose-Einstein condensates. <i>Scientific Reports</i> , 2016 , 6, 29066	4.9	7
36	Exact wave solutions for Bose-Einstein condensates with time-dependent scattering length and spatiotemporal complicated potential. <i>Journal of Mathematical Physics</i> , 2013 , 54, 051501	1.2	7
35	Polyethylene crystal lamella growth on the mica. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992 , 10, 627-629	2.9	7
34	Finite-Component Multicriticality at the Superradiant Quantum Phase Transition. <i>Physical Review Letters</i> , 2020 , 125, 050402	7.4	7
33	Monitoring of temperature distribution in living biological tissues via blood perfusion. <i>European Physical Journal Plus</i> , 2012 , 127, 1	3.1	6

32	Pairwise entanglement and local polarization of Heisenberg model 2008 , 51, 1515-1522		6
31	Raman spectra and phonon structures of BaGa ₄ Se ₇ crystal. <i>Communications Physics</i> , 2020 , 3,	5.4	6
30	Impurities in graphene. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 2726-2738	1.6	5
29	Singular Nonlinearity Management for Matter-Wave Solitons in Normal and Inverted Parabolic Potentials. <i>Journal of the Physical Society of Japan</i> , 2006 , 75, 114004	1.5	5
28	Topological transition from superfluid vortex rings to isolated knots and links. <i>Physical Review A</i> , 2020 , 102,	2.6	5
27	Universal Dissipationless Dynamics in Gaussian Continuous-Variable Open Systems. <i>Physical Review Letters</i> , 2018 , 121, 220403	7.4	5
26	Weyl type spin-orbit coupled ferromagnetic Bose-Einstein condensates under rotation. <i>Annals of Physics</i> , 2018 , 396, 87-95	2.5	4
25	Quantum information and many body physics with cold atoms. <i>Science Bulletin</i> , 2012 , 57, 1910-1918		4
24	Defective Majorana zero modes in a non-Hermitian Kitaev chain. <i>Physical Review B</i> , 2021 , 104,	3.3	4
23	Modulational instability and soliton control in a cubic-quintic dissipative Gross-Pitaevskii equation with distributed coefficients. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 215003	1.3	4
22	Mechanism and modulation of terahertz generation from a semimetal-graphite. <i>Scientific Reports</i> , 2016 , 6, 22798	4.9	4
21	Phase engineering of chirped rogue waves in Bose-Einstein condensates with a variable scattering length in an expulsive potential. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 103, 105983	3.7	4
20	Two-fluid theory for a superfluid system with anisotropic effective masses. <i>Physical Review A</i> , 2019 , 99,	2.6	3
19	Engineering bright solitons to enhance the stability of two-component Bose-Einstein condensates. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 2977-2983	2.3	3
18	Quantum dynamics and spectra of vibrational Raman-resonance fluorescence in a two-mode cavity. <i>Physical Review A</i> , 2015 , 92,	2.6	3
17	Phase Engineering Chirped Super Rogue Waves in a Nonlinear Transmission Network with Dispersive Elements. <i>Advanced Theory and Simulations</i> , 2021 , 4, 2100062	3.5	3
16	Formation of vortex rings and hopfions in trapped Bose-Einstein condensates. <i>Physics of Fluids</i> , 2021 , 33, 027105	4.4	3
15	Quantum Hall effects in a non-Abelian honeycomb lattice. <i>Physical Review A</i> , 2015 , 92,	2.6	2

14	Nonautonomous helical motion of magnetization in ferromagnetic nanowire driven by spin-polarized current and magnetic field. <i>European Physical Journal B</i> , 2011 , 84, 197-202	1.2	2
13	A spinel ferrite catalyst for efficient electroreduction of dinitrogen to ammonia. <i>Dalton Transactions</i> , 2020 , 49, 12559-12564	4.3	2
12	Twin-beam-enhanced displacement measurement of a membrane in a cavity. <i>Applied Physics Letters</i> , 2019 , 115, 251105	3.4	2
11	Photovoltaic Effect of Atomtronics Induced by an Artificial Gauge Field. <i>Physical Review Letters</i> , 2019 , 122, 223202	7.4	1
10	Roughness with a finite correlation length in a microtrap. <i>Physical Review A</i> , 2010 , 81,	2.6	1
9	Modulational instability and sister chirped femtosecond modulated waves in a nonlinear Schrödinger equation with self-steepening and self-frequency shift. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022 , 108, 106240	3.7	1
8	Intrinsic localization of both topological (anti-kink) envelope and gray (black) gap solitons of the condensed bosons in deep optical lattices. <i>Chaos</i> , 2020 , 30, 123133	3.3	1
7	Nonlinear dynamics of a Bose-Einstein condensate excited by a vortex ring phase imprinting. <i>Results in Physics</i> , 2021 , 22, 103828	3.7	1
6	Whispering-gallery mode resonance-assisted plasmonic sensing and switching in subwavelength nanostructures. <i>Journal of Materials Science</i> , 2021 , 56, 4716-4726	4.3	1
5	Anomalous non-Abelian statistics for non-Hermitian generalization of Majorana zero modes. <i>Physical Review B</i> , 2021 , 104,	3.3	1
4	Supersolid phase of cold atoms. <i>European Physical Journal D</i> , 2020 , 74, 1	1.3	0
3	Quantum phase transitions and coherent tunneling in a bilayer of ultracold atoms with dipole interactions. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	
2	Higgs type excitations in cold atom systems. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 2272-2277	3.6	
1	QUANTUM PHASE TRANSITION OF COLD ATOMS IN OPTICAL LATTICES. <i>Annual Review of Cold Atoms and Molecules</i> , 2013 , 87-127		