

# Jiahao Huang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1095463/publications.pdf>

Version: 2024-02-01

40  
papers

814  
citations

759233

12  
h-index

501196

28  
g-index

40  
all docs

40  
docs citations

40  
times ranked

705  
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine optimized quantum metrology of concurrent entanglement generation and sensing. Quantum Science and Technology, 2022, 7, 025010.	5.8	4
2	Efficient Bayesian phase estimation via entropy-based sampling. Quantum Science and Technology, 2022, 7, 035022.	5.8	1
3	Efficient generation of spin cat states with twist-and-turn dynamics via machine optimization. Physical Review A, 2022, 105, .	2.5	3
4	Cluster mean-field study of spinor Bose-Hubbard ladder: Ground-state phase diagram and many-body population dynamics*. Chinese Physics B, 2021, 30, 026701.	1.4	0
5	Quantum metrology via chaos in a driven Bose-Josephson system. Physical Review A, 2021, 103, .	2.5	5
6	Quantum exceptional points of non-Hermitian Hamiltonian and Liouvillian in dissipative quantum Rabi model*. Chinese Physics B, 2021, 30, 110309.	1.4	3
7	Adaptive Bayesian algorithm for achieving a desired magneto-sensitive transition. Optics Express, 2021, 29, 21031.	3.4	3
8	Temporal analog of Fabry-Pérot resonator via coherent population trapping. Npj Quantum Information, 2021, 7, .	6.7	4
9	Many-Body Quantum Lock-In Amplifier. PRX Quantum, 2021, 2, .	9.2	1
10	Production of 87Rb Bose-Einstein Condensate in an Asymmetric Crossed Optical Dipole Trap. Chinese Physics Letters, 2021, 38, 103701.	3.3	1
11	Heisenberg-Limited Frequency Estimation via Driving Through Quantum Phase Transitions. Physical Review Applied, 2021, 16, .	3.8	2
12	Symmetry-Protected Quantum Adiabatic Evolution in Spontaneous Symmetry-Breaking Transitions. Annalen Der Physik, 2020, 532, 1900471.	2.4	5
13	Simultaneous Measurement of dc and ac Magnetic Fields at the Heisenberg Limit. Physical Review Applied, 2020, 13, .	3.8	4
14	Non-Gaussian entangled states and quantum metrology with ultracold atomic ensemble. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 040306.	0.5	5
15	Experimental demonstration of nonlinear quantum metrology with optimal quantum state. Science Bulletin, 2018, 63, 469-476.	9.0	13
16	Dressed state dynamics of two-component Bose-Einstein Condensates in state-dependent potentials. Scientific Reports, 2018, 8, 4484.	3.3	3
17	Non-Gaussian precision metrology via driving through quantum phase transitions. Physical Review A, 2018, 97, .	2.5	22
18	Clock frequency estimation under spontaneous emission. Frontiers of Physics, 2018, 13, 1.	5.0	3

#	ARTICLE	IF	CITATIONS
19	Compact gravimeter with an ensemble of ultracold atoms in spin-dependent optical lattices. Physical Review A, 2018, 98, .	2.5	6
20	Multiparameter estimation via an ensemble of spinor atoms. Physical Review A, 2018, 98, .	2.5	11
21	Achieving Heisenberg-limited metrology with spin cat states via interaction-based readout. Physical Review A, 2018, 98, .	2.5	29
22	A hybrid two-component Bose-Einstein condensate interferometer for measuring magnetic field gradients. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 865-868.	2.1	3
23	Heisenberg-limited Sagnac interferometer with multiparticle states. Physical Review A, 2017, 95, .	2.5	23
24	Kibble-Zurek scalings of continuous magnetic phase transitions in spin-1 spin-orbit-coupled Bose-Einstein condensates. Physical Review A, 2017, 95, .	2.5	8
25	Kibble-Zurek dynamics in an array of coupled binary Bose condensates. Europhysics Letters, 2016, 113, 50003.	2.0	10
26	Floquet modulation of $\mathcal{PT}$ symmetry in an atomic Bose-Josephson junction. European Physical Journal D, 2016, 70, 1.	1.3	4
27	Nonlinear switching and solitons in $\mathcal{PT}$ -symmetric photonic systems. Laser and Photonics Reviews, 2016, 10, 177-213.	8.7	288
28	Asymmetric sequential Landau-Zener dynamics of Bose-condensed atoms in a cavity. Physical Review A, 2016, 94, .	2.5	3
29	Quantum metrology with spin cat states under dissipation. Scientific Reports, 2016, 5, 17894.	3.3	48
30	Dynamic fragmentation in a quenched two-mode Bose-Einstein condensate. Frontiers of Physics, 2016, 11, 1.	5.0	3
31	Cluster Gutzwiller study of the Bose-Hubbard ladder: Ground-state phase diagram and many-body Landau-Zener dynamics. Physical Review A, 2015, 92, .	2.5	11
32	Stationary States and Modulational Instability of Coupled Two-Component Bose-Einstein Condensates in a Ring Trap. Communications in Theoretical Physics, 2015, 64, 133-138.	2.5	0
33	Bloch-Landau-Zener dynamics in single-particle Wannier-Zeeman systems. Physical Review A, 2015, 91, .	2.5	15
34	Quantum simulation of interaction blockade in a two-site Bose-Hubbard system with solid quadrupolar crystal. New Journal of Physics, 2015, 17, 053028.	2.9	6
35	Photon-induced sideband transitions in a many-body Landau-Zener process. Physical Review A, 2014, 90, .	2.5	9
36	QUANTUM METROLOGY WITH COLD ATOMS. Annual Review of Cold Atoms and Molecules, 2014, , 365-415.	2.8	23

#	ARTICLE	IF	CITATIONS
37	Universal local pair correlations of Lieb-Liniger bosons at quantum criticality. Physical Review A, 2013, 87, .	2.5	12
38	Pseudo-Parity-Time Symmetry in Optical Systems. Physical Review Letters, 2013, 110, 243902.	7.8	124
39	Nonlinear quantum interferometry with Bose condensed atoms. Frontiers of Physics, 2012, 7, 109-130.	5.0	72
40	Coherent destruction of tunneling in a lattice array under selective in-phase modulations. Physical Review A, 2011, 84, .	2.5	24