

Jiahao Huang

List of Publications by Year in descending order

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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 | Nonlinear switching and solitons in PT-symmetric photonic systems. <i>Laser and Photonics Reviews</i> , 2016, 10, 177-213. | 8.7 | 288 |
| 2 | Pseudo-Parity-Time Symmetry in Optical Systems. <i>Physical Review Letters</i> , 2013, 110, 243902. | 7.8 | 124 |
| 3 | Nonlinear quantum interferometry with Bose condensed atoms. <i>Frontiers of Physics</i> , 2012, 7, 109-130. | 5.0 | 72 |
| 4 | Quantum metrology with spin cat states under dissipation. <i>Scientific Reports</i> , 2016, 5, 17894. | 3.3 | 48 |
| 5 | Achieving Heisenberg-limited metrology with spin cat states via interaction-based readout. <i>Physical Review A</i> , 2018, 98, . | 2.5 | 29 |
| 6 | Coherent destruction of tunneling in a lattice array under selective in-phase modulations. <i>Physical Review A</i> , 2011, 84, . | 2.5 | 24 |
| 7 | QUANTUM METROLOGY WITH COLD ATOMS. <i>Annual Review of Cold Atoms and Molecules</i> , 2014, , 365-415. | 2.8 | 23 |
| 8 | Heisenberg-limited Sagnac interferometer with multiparticle states. <i>Physical Review A</i> , 2017, 95, . | 2.5 | 23 |
| 9 | Non-Gaussian precision metrology via driving through quantum phase transitions. <i>Physical Review A</i> , 2018, 97, . | 2.5 | 22 |
| 10 | Bloch-Landau-Zener dynamics in single-particle Wannier-Zeeman systems. <i>Physical Review A</i> , 2015, 91, . | 2.5 | 15 |
| 11 | Experimental demonstration of nonlinear quantum metrology with optimal quantum state. <i>Science Bulletin</i> , 2018, 63, 469-476. | 9.0 | 13 |
| 12 | Universal local pair correlations of Lieb-Liniger bosons at quantum criticality. <i>Physical Review A</i> , 2013, 87, . | 2.5 | 12 |
| 13 | Cluster Gutzwiller study of the Bose-Hubbard ladder: Ground-state phase diagram and many-body Landau-Zener dynamics. <i>Physical Review A</i> , 2015, 92, . | 2.5 | 11 |
| 14 | Multiparameter estimation via an ensemble of spinor atoms. <i>Physical Review A</i> , 2018, 98, . | 2.5 | 11 |
| 15 | Kibble-Zurek dynamics in an array of coupled binary Bose condensates. <i>Europhysics Letters</i> , 2016, 113, 50003. | 2.0 | 10 |
| 16 | Photon-induced sideband transitions in a many-body Landau-Zener process. <i>Physical Review A</i> , 2014, 90, . | 2.5 | 9 |
| 17 | Kibble-Zurek scalings of continuous magnetic phase transitions in spin-1 spin-orbit-coupled Bose-Einstein condensates. <i>Physical Review A</i> , 2017, 95, . | 2.5 | 8 |
| 18 | Quantum simulation of interaction blockade in a two-site Bose-Hubbard system with solid quadrupolar crystal. <i>New Journal of Physics</i> , 2015, 17, 053028. | 2.9 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Compact gravimeter with an ensemble of ultracold atoms in spin-dependent optical lattices. <i>Physical Review A</i> , 2018, 98, . | 2.5 | 6 |
| 20 | Symmetry-Protected Quantum Adiabatic Evolution in Spontaneous Symmetry-Breaking Transitions. <i>Annalen Der Physik</i> , 2020, 532, 1900471. | 2.4 | 5 |
| 21 | Quantum metrology via chaos in a driven Bose-Josephson system. <i>Physical Review A</i> , 2021, 103, . | 2.5 | 5 |
| 22 | Non-Gaussian entangled states and quantum metrology with ultracold atomic ensemble. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019, 68, 040306. | 0.5 | 5 |
| 23 | Floquet modulation of \mathcal{PT} symmetry in an atomic Bose-Josephson junction. <i>European Physical Journal D</i> , 2016, 70, 1. | 1.3 | 4 |
| 24 | Simultaneous Measurement of dc and ac Magnetic Fields at the Heisenberg Limit. <i>Physical Review Applied</i> , 2020, 13, . | 3.8 | 4 |
| 25 | Temporal analog of Fabry-Pérot resonator via coherent population trapping. <i>Npj Quantum Information</i> , 2021, 7, . | 6.7 | 4 |
| 26 | Machine optimized quantum metrology of concurrent entanglement generation and sensing. <i>Quantum Science and Technology</i> , 2022, 7, 025010. | 5.8 | 4 |
| 27 | Asymmetric sequential Landau-Zener dynamics of Bose-condensed atoms in a cavity. <i>Physical Review A</i> , 2016, 94, . | 2.5 | 3 |
| 28 | Dynamic fragmentation in a quenched two-mode Bose-Einstein condensate. <i>Frontiers of Physics</i> , 2016, 11, 1. | 5.0 | 3 |
| 29 | A hybrid two-component Bose-Einstein condensate interferometer for measuring magnetic field gradients. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 865-868. | 2.1 | 3 |
| 30 | Dressed state dynamics of two-component Bose-Einstein Condensates in state-dependent potentials. <i>Scientific Reports</i> , 2018, 8, 4484. | 3.3 | 3 |
| 31 | Clock frequency estimation under spontaneous emission. <i>Frontiers of Physics</i> , 2018, 13, 1. | 5.0 | 3 |
| 32 | Quantum exceptional points of non-Hermitian Hamiltonian and Liouvillian in dissipative quantum Rabi model*. <i>Chinese Physics B</i> , 2021, 30, 110309. | 1.4 | 3 |
| 33 | Adaptive Bayesian algorithm for achieving a desired magneto-sensitive transition. <i>Optics Express</i> , 2021, 29, 21031. | 3.4 | 3 |
| 34 | Efficient generation of spin cat states with twist-and-turn dynamics via machine optimization. <i>Physical Review A</i> , 2022, 105, . | 2.5 | 3 |
| 35 | Heisenberg-Limited Frequency Estimation via Driving Through Quantum Phase Transitions. <i>Physical Review Applied</i> , 2021, 16, . | 3.8 | 2 |
| 36 | Many-Body Quantum Lock-In Amplifier. <i>PRX Quantum</i> , 2021, 2, . | 9.2 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Production of 87Rb Bose-Einstein Condensate in an Asymmetric Crossed Optical Dipole Trap. Chinese Physics Letters, 2021, 38, 103701. | 3.3 | 1 |
| 38 | Efficient Bayesian phase estimation via entropy-based sampling. Quantum Science and Technology, 2022, 7, 035022. | 5.8 | 1 |
| 39 | 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 |
| 40 | 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 |