

Kenichi Kasamatsu

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,226
citations

279798

23
h-index

214800

47
g-index

59
all docs

59
docs citations

59
times ranked

994
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Vortex lattice formation in a rotating Bose-Einstein condensate. Physical Review A, 2002, 65, . | 2.5 | 272 |
| 2 | VORTICES IN MULTICOMPONENT BOSE-EINSTEIN CONDENSATES. International Journal of Modern Physics B, 2005, 19, 1835-1904. | 2.0 | 217 |
| 3 | Vortex Phase Diagram in Rotating Two-Component Bose-Einstein Condensates. Physical Review Letters, 2003, 91, 150406. | 7.8 | 183 |
| 4 | Giant hole and circular superflow in a fast rotating Bose-Einstein condensate. Physical Review A, 2002, 66, . | 2.5 | 138 |
| 5 | Vortex Molecules in Coherently Coupled Two-Component Bose-Einstein Condensates. Physical Review Letters, 2004, 93, 250406. | 7.8 | 125 |
| 6 | Multiple Domain Formation Induced by Modulation Instability in Two-Component Bose-Einstein Condensates. Physical Review Letters, 2004, 93, 100402. | 7.8 | 119 |
| 7 | Spin textures in rotating two-component Bose-Einstein condensates. Physical Review A, 2005, 71, . | 2.5 | 108 |
| 8 | Modulation instability and solitary-wave formation in two-component Bose-Einstein condensates. Physical Review A, 2006, 74, . | 2.5 | 95 |
| 9 | Interaction of half-quantized vortices in two-component Bose-Einstein condensates. Physical Review A, 2011, 83, . | 2.5 | 93 |
| 10 | Quantum Kelvin-Helmholtz instability in phase-separated two-component Bose-Einstein condensates. Physical Review B, 2010, 81, . | 3.2 | 87 |
| 11 | Vortex sheet in rotating two-component Bose-Einstein condensates. Physical Review A, 2009, 79, . | 2.5 | 72 |
| 12 | Crossover between Kelvin-Helmholtz and counter-superflow instabilities in two-component Bose-Einstein condensates. Physical Review A, 2010, 82, . | 2.5 | 54 |
| 13 | Quantum simulation of $(\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 T}$ | 4.7 | 52 |
| 14 | Modulational Instability, Inter-Component Asymmetry, and Formation of Quantum Droplets in One-Dimensional Binary Bose Gases. Symmetry, 2020, 12, 174. | 2.2 | 52 |
| 15 | Creating vortons and three-dimensional skyrmions from domain-wall annihilation with stretched vortices in Bose-Einstein condensates. Physical Review A, 2012, 85, . | 2.5 | 45 |
| 16 | Short-range intervortex interaction and interacting dynamics of half-quantized vortices in two-component Bose-Einstein condensates. Physical Review A, 2016, 93, . | 2.5 | 44 |
| 17 | Atomic Quantum Simulation of the Lattice Gauge-Higgs Model: Higgs Couplings and Emergence of Exact Local Gauge Symmetry. Physical Review Letters, 2013, 111, 115303. | 7.8 | 43 |
| 18 | Dynamical Vortex Phases in a Bose-Einstein Condensate Driven by a Rotating Optical Lattice. Physical Review Letters, 2006, 97, 240404. | 7.8 | 40 |

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Three-dimensional dynamics of vortex-lattice formation in Bose-Einstein condensates. <i>Physical Review A</i> , 2005, 71, . | 2.5 | 37 |
| 20 | Wall-vortex composite solitons in two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2013, 88, . | 2.5 | 36 |
| 21 | Analogues of D-branes in Bose-Einstein condensates. <i>Journal of High Energy Physics</i> , 2010, 2010, 1. | 4.7 | 30 |
| 22 | Tachyon Condensation Due to Domain-Wall Annihilation in Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2012, 109, 245301. | 7.8 | 30 |
| 23 | Nambu-Goldstone modes in segregated Bose-Einstein condensates. <i>Physical Review A</i> , 2013, 88, . | 2.5 | 25 |
| 24 | Modulation instability associated nonlinear dynamics of spin-orbit coupled Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 045301. | 1.5 | 21 |
| 25 | Quadrupole and scissors modes and nonlinear mode coupling in trapped two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2004, 69, . | 2.5 | 20 |
| 26 | D-brane solitons and boojums in field theory and Bose-Einstein condensates. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 404213. | 1.8 | 15 |
| 27 | Transverse instability and disintegration of a domain wall of a relative phase in coherently coupled two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2019, 100, . | 2.5 | 15 |
| 28 | Dynamics of quantized vortices in Bose-Einstein condensates with laser-induced spin-orbit coupling. <i>Physical Review A</i> , 2015, 92, . | 2.5 | 14 |
| 29 | Atomic quantum simulation of a three-dimensional U(1) gauge-Higgs model. <i>Physical Review A</i> , 2016, 94, . | 2.5 | 14 |
| 30 | Spontaneous radiation and amplification of Kelvin waves on quantized vortices in Bose-Einstein condensates. <i>Physical Review A</i> , 2009, 79, . | 2.5 | 12 |
| 31 | Vortex Formations from Domain Wall Annihilations in Two-Component Bose-Einstein Condensates. <i>Journal of Low Temperature Physics</i> , 2011, 162, 243-249. | 1.4 | 12 |
| 32 | Decay of two-dimensional quantum turbulence in binary Bose-Einstein condensates. <i>Physical Review A</i> , 2021, 103, . | 2.5 | 11 |
| 33 | Is a Doubly Quantized Vortex Dynamically Unstable in Uniform Superfluids?. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 023601. | 1.6 | 10 |
| 34 | Tachyon Condensation and Brane Annihilation in Bose-Einstein Condensates: Spontaneous Symmetry Breaking in Restricted Lower-Dimensional Subspace. <i>Journal of Low Temperature Physics</i> , 2013, 171, 443-454. | 1.4 | 9 |
| 35 | Pattern formation of quantum Kelvin-Helmholtz instability in binary superfluids. <i>Physical Review A</i> , 2021, 104, . | 2.5 | 8 |
| 36 | Vortex Generation in Cyclically Coupled Superfluids and the Kibble-Zurek Mechanism. <i>Journal of Low Temperature Physics</i> , 2002, 126, 315-320. | 1.4 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Static and Dynamic Properties of Multicomponent Bose-Einstein Condensates of Ytterbium Atoms. Journal of Low Temperature Physics, 2008, 150, 599-604. | 1.4 | 7 |
| 38 | Vortex States of Two-Component Bose-Einstein Condensates with and Without Internal Josephson Coupling. Journal of Low Temperature Physics, 2004, 134, 719-724. | 1.4 | 6 |
| 39 | Vortex Lattices in Rotating Bose-Einstein Condensate in an Optical Lattice: Analogy to Uniformly Frustrated Josephson-Junction Arrays. Journal of Low Temperature Physics, 2008, 150, 593-598. | 1.4 | 6 |
| 40 | Scalable Neutral Atom Quantum Computer with Interaction on Demand: Proposal for Selective Application of Two-Qubit Gate. Journal of the Physical Society of Japan, 2011, 80, 114003. | 1.6 | 6 |
| 41 | Effects of a magnetic field on vortex states in superfluid ^3He . Physical Review B, 2019, 99, . | 3.2 | 5 |
| 42 | Josephson Current Flowing in Cyclically Coupled Bose-Einstein Condensates. Journal of the Physical Society of Japan, 2000, 69, 1942-1945. | 1.6 | 4 |
| 43 | Modulation Instability and Pattern Formation in Two-component Bose-Einstein Condensates. Journal of Low Temperature Physics, 2005, 138, 669-674. | 1.4 | 4 |
| 44 | Dynamical Properties of Vortices in a Bose-Einstein Condensate in a Rotating Lattice. Journal of Low Temperature Physics, 2007, 148, 357-361. | 1.4 | 4 |
| 45 | Vortex Nucleation and Array Formation in a Rotating Bose-Einstein Condensate. Journal of Low Temperature Physics, 2002, 126, 461-466. | 1.4 | 3 |
| 46 | Dynamics of Quantized Vortices in Superfluid Helium and Rotating Bose-Einstein Condensates. Journal of Low Temperature Physics, 2005, 138, 471-480. | 1.4 | 3 |
| 47 | Application of the inhomogeneous Kibble-Zurek mechanism to quench dynamics in the transition from a Mott insulator to a superfluid in a finite system. Physical Review A, 2021, 103, . | 2.5 | 3 |
| 48 | Connection of Vortices Between Spatially Different Phases in Two-Component Bose-Einstein Condensates. Journal of Low Temperature Physics, 2010, 158, 99-104. | 1.4 | 2 |
| 49 | Dynamics of Two Quantized Vortices Belonging to Different Components of Binary Bose-Einstein Condensates in a Circular Box Potential. Journal of the Physical Society of Japan, 2022, 91, . | 1.6 | 2 |
| 50 | Quantum droplet of a two-component Bose gas in an optical lattice near the Mott insulator transition. Physical Review A, 2022, 105, . | 2.5 | 2 |
| 51 | Collective Shape Oscillation and Domain Formation of Two-Component Bose-Einstein Condensates. Journal of Low Temperature Physics, 2004, 134, 677-682. | 1.4 | 1 |
| 52 | Vortex Structures in Rotating Two-Component Bose-Einstein Condensates in an Anharmonic Trapping Potential. AIP Conference Proceedings, 2006, , . | 0.4 | 1 |
| 53 | Shear-flow Instability in Two-component Bose-Einstein Condensates. Journal of Low Temperature Physics, 2010, 158, 384-390. | 1.4 | 1 |
| 54 | Semiclassical dynamics of a dark soliton in a one-dimensional bosonic superfluid in an optical lattice. Physical Review Research, 2020, 2, . | 3.6 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Macroscopic Quantum Tunneling of Two-Component Bose-Einstein Condensates. Journal of Low Temperature Physics, 2002, 126, 437-442. | 1.4 | 0 |
| 56 | BOSONS IN AN OPTICAL LATTICE WITH A SYNTHETIC MAGNETIC FIELD. , 2012, , . | | 0 |
| 57 | ATOMIC QUANTUM SIMULATIONS OF LATTICE GAUGE THEORY: EFFECT OF GAUGE SYMMETRY BREAKING. , 2014, , . | | 0 |
| 58 | Vorticity Distribution in Quantum Kelvinâ€Helmholtz Instability of Binary Boseâ€Einstein Condensates. Journal of Low Temperature Physics, 0, , 1. | 1.4 | 0 |