

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
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214800

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docs citations

59
times ranked

994
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Decay of two-dimensional quantum turbulence in binary Bose-Einstein condensates. Physical Review A, 2021, 103, .	2.5	11
5	Pattern formation of quantum Kelvin-Helmholtz instability in binary superfluids. Physical Review A, 2021, 104, .	2.5	8
6	Modulational Instability, Inter-Component Asymmetry, and Formation of Quantum Droplets in One-Dimensional Binary Bose Gases. Symmetry, 2020, 12, 174.	2.2	52
7	Semiclassical dynamics of a dark soliton in a one-dimensional bosonic superfluid in an optical lattice. Physical Review Research, 2020, 2, .	3.6	1
8	Transverse instability and disintegration of a domain wall of a relative phase in coherently coupled two-component Bose-Einstein condensates. Physical Review A, 2019, 100, .	2.5	15
9	Modulation instability associated nonlinear dynamics of spin-orbit coupled Bose-Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 045301.	1.5	21
10	Effects of a magnetic field on vortex states in superfluid ^3He . Physical Review B, 2019, 99, .	3.2	5
11	Is a Doubly Quantized Vortex Dynamically Unstable in Uniform Superfluids?. Journal of the Physical Society of Japan, 2018, 87, 023601.	1.6	10
12	Quantum simulation of (T_j ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 T	4.7	52
13	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
14	Atomic quantum simulation of a three-dimensional U(1) gauge-Higgs model. Physical Review A, 2016, 94, .	2.5	14
15	Dynamics of quantized vortices in Bose-Einstein condensates with laser-induced spin-orbit coupling. Physical Review A, 2015, 92, .	2.5	14
16	ATOMIC QUANTUM SIMULATIONS OF LATTICE GAUGE THEORY: EFFECT OF GAUGE SYMMETRY BREAKING. , 2014, , .		0
17	Tachyon Condensation and Brane Annihilation in Bose-Einstein Condensates: Spontaneous Symmetry Breaking in Restricted Lower-Dimensional Subspace. Journal of Low Temperature Physics, 2013, 171, 443-454.	1.4	9
18	Wall-vortex composite solitons in two-component Bose-Einstein condensates. Physical Review A, 2013, 88, .	2.5	36

#	ARTICLE	IF	CITATIONS
19	Nambu-Goldstone modes in segregated Bose-Einstein condensates. <i>Physical Review A</i> , 2013, 88, .	2.5	25
20	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
21	Atomic Quantum Simulation of the Lattice Gauge-Higgs Model: Higgs Couplings and Emergence of Exact Local Gauge Symmetry. <i>Physical Review Letters</i> , 2013, 111, 115303.	7.8	43
22	Tachyon Condensation Due to Domain-Wall Annihilation in Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2012, 109, 245301.	7.8	30
23	BOSONS IN AN OPTICAL LATTICE WITH A SYNTHETIC MAGNETIC FIELD. , 2012, , .		0
24	Creating vortons and three-dimensional skyrmions from domain-wall annihilation with stretched vortices in Bose-Einstein condensates. <i>Physical Review A</i> , 2012, 85, .	2.5	45
25	Scalable Neutral Atom Quantum Computer with Interaction on Demand: Proposal for Selective Application of Two-Qubit Gate. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 114003.	1.6	6
26	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
27	Interaction of half-quantized vortices in two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2011, 83, .	2.5	93
28	Analogues of D-branes in Bose-Einstein condensates. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	30
29	Connection of Vortices Between Spatially Different Phases in Two-Component Bose-Einstein Condensates. <i>Journal of Low Temperature Physics</i> , 2010, 158, 99-104.	1.4	2
30	Shear-flow Instability in Two-component Bose-Einstein Condensates. <i>Journal of Low Temperature Physics</i> , 2010, 158, 384-390.	1.4	1
31	Crossover between Kelvin-Helmholtz and counter-superflow instabilities in two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2010, 82, .	2.5	54
32	Quantum Kelvin-Helmholtz instability in phase-separated two-component Bose-Einstein condensates. <i>Physical Review B</i> , 2010, 81, .	3.2	87
33	Spontaneous radiation and amplification of Kelvin waves on quantized vortices in Bose-Einstein condensates. <i>Physical Review A</i> , 2009, 79, .	2.5	12
34	Vortex sheet in rotating two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2009, 79, .	2.5	72
35	Static and Dynamic Properties of Multicomponent Bose-Einstein Condensates of Ytterbium Atoms. <i>Journal of Low Temperature Physics</i> , 2008, 150, 599-604.	1.4	7
36	Vortex Lattices in Rotating Bose-Einstein Condensate in an Optical Lattice: Analogy to Uniformly Frustrated Josephson-Junction Arrays. <i>Journal of Low Temperature Physics</i> , 2008, 150, 593-598.	1.4	6

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37	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
38	Vortex Structures in Rotating Two-Component Bose-Einstein Condensates in an Anharmonic Trapping Potential. AIP Conference Proceedings, 2006, , .	0.4	1
39	Dynamical Vortex Phases in a Bose-Einstein Condensate Driven by a Rotating Optical Lattice. Physical Review Letters, 2006, 97, 240404.	7.8	40
40	Modulation instability and solitary-wave formation in two-component Bose-Einstein condensates. Physical Review A, 2006, 74, .	2.5	95
41	Three-dimensional dynamics of vortex-lattice formation in Bose-Einstein condensates. Physical Review A, 2005, 71, .	2.5	37
42	Dynamics of Quantized Vortices in Superfluid Helium and Rotating Bose-Einstein Condensates. Journal of Low Temperature Physics, 2005, 138, 471-480.	1.4	3
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	Spin textures in rotating two-component Bose-Einstein condensates. Physical Review A, 2005, 71, .	2.5	108
45	VORTICES IN MULTICOMPONENT BOSE-EINSTEIN CONDENSATES. International Journal of Modern Physics B, 2005, 19, 1835-1904.	2.0	217
46	Vortex Molecules in Coherently Coupled Two-Component Bose-Einstein Condensates. Physical Review Letters, 2004, 93, 250406.	7.8	125
47	Multiple Domain Formation Induced by Modulation Instability in Two-Component Bose-Einstein Condensates. Physical Review Letters, 2004, 93, 100402.	7.8	119
48	Quadrupole and scissors modes and nonlinear mode coupling in trapped two-component Bose-Einstein condensates. Physical Review A, 2004, 69, .	2.5	20
49	Collective Shape Oscillation and Domain Formation of Two-Component Bose-Einstein Condensates. Journal of Low Temperature Physics, 2004, 134, 677-682.	1.4	1
50	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
51	Vortex Phase Diagram in Rotating Two-Component Bose-Einstein Condensates. Physical Review Letters, 2003, 91, 150406.	7.8	183
52	Giant hole and circular superflow in a fast rotating Bose-Einstein condensate. Physical Review A, 2002, 66, .	2.5	138
53	Vortex lattice formation in a rotating Bose-Einstein condensate. Physical Review A, 2002, 65, .	2.5	272
54	Macroscopic Quantum Tunneling of Two-Component Bose-Einstein Condensates. Journal of Low Temperature Physics, 2002, 126, 437-442.	1.4	0

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55	Vortex Nucleation and Array Formation in a Rotating Bose-Einstein Condensate. Journal of Low Temperature Physics, 2002, 126, 461-466.	1.4	3
56	Vortex Generation in Cyclically Coupled Superfluids and the Kibble-Zurek Mechanism. Journal of Low Temperature Physics, 2002, 126, 315-320.	1.4	7
57	Josephson Current Flowing in Cyclically Coupled Bose-Einstein Condensates. Journal of the Physical Society of Japan, 2000, 69, 1942-1945.	1.6	4
58	Vorticity Distribution in Quantum Kelvin-Helmholtz Instability of Binary Bose-Einstein Condensates. Journal of Low Temperature Physics, 0, , 1.	1.4	0