

Paulsamy Muruganandam

List of Publications by Year in descending order

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81
papers

2,022
citations

304743

22
h-index

254184

43
g-index

81
all docs

81
docs citations

81
times ranked

812
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability window of trapless polariton Bose-Einstein condensates. <i>Physical Review B</i> , 2022, 105, .	3.2	1
2	Spin-1 spin-orbit- and Rabi-coupled Bose-Einstein condensate solver. <i>Computer Physics Communications</i> , 2021, 259, 107657.	7.5	20
3	Emergence and mitigation of extreme events in a parametrically driven system with velocity-dependent potential. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	13
4	Amplitude-mediated spiral chimera pattern in a nonlinear reaction-diffusion system. <i>Physical Review E</i> , 2021, 103, 062209.	2.1	7
5	OpenMP solver for rotating spin-1 spin-orbit- and Rabi-coupled Bose-Einstein condensates. <i>Computer Physics Communications</i> , 2021, 264, 107926.	7.5	8
6	Spiral wave chimera-like transient dynamics in three-dimensional grid of diffusive ecological systems. <i>Chaos</i> , 2021, 31, 083125.	2.5	4
7	Effect of Rashba spin-orbit and Rabi couplings on the excitation spectrum of binary Bose-Einstein condensates. <i>Physical Review A</i> , 2021, 104, .	2.5	13
8	Influence of Rashba spin-orbit and Rabi couplings on the spin-mixing and ground state phases of binary Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 225301.	1.5	5
9	Quenching dynamics of the bright solitons and other localized states in spin-orbit coupled Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 195301.	1.5	11
10	Rotational properties of dipolar Bose-Einstein condensates in double-well potential. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
11	On the ground state phases in spin-orbit coupled Bose-Einstein condensates with weak repulsive interactions. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
12	FACT: FORTRAN toolbox for calculating fluctuations in atomic condensates. <i>Computer Physics Communications</i> , 2020, 256, 107288.	7.5	2
13	Ground state phases in Rashba-Dresselhaus spin-orbit-coupled Bose-Einstein condensates. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
14	C and Fortran OpenMP programs for rotating Bose-Einstein condensates. <i>Computer Physics Communications</i> , 2019, 240, 74-82.	7.5	22
15	Vortex formation and vortex lattices in a Bose-Einstein condensate with Lee-Huang-Yang (LHY) correction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 107, 54-59.	2.7	8
16	Spotlighting phase separation in Rashba spin-orbit coupled Bose-Einstein condensates in two dimensions. <i>Journal of Physics Communications</i> , 2018, 2, 025008.	1.2	8
17	Diffusion induced spiral wave chimeras in ecological system. <i>European Physical Journal: Special Topics</i> , 2018, 227, 983-993.	2.6	36
18	Asymmetry in initial cluster size favors symmetry in a network of oscillators. <i>Chaos</i> , 2018, 28, 081101.	2.5	8

#	ARTICLE	IF	CITATIONS
19	Condensates in double-well potential with synthetic gauge potentials and vortex seeding. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 2376-2381.	2.1	1
20	Synchronization Dynamics of Modified Relay-coupled Chaotic Systems. <i>Journal of Applied Nonlinear Dynamics</i> , 2018, 7, 11-24.	0.3	2
21	Bright soliton dynamics in spin orbit-Rabi coupled Bose-Einstein condensates. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 50, 68-76.	3.3	17
22	Coherent motion of chaotic attractors. <i>Physical Review E</i> , 2017, 96, 042210.	2.1	6
23	OpenMP GNU and Intel Fortran programs for solving the time-dependent Grossâ€Pitaevskii equation. <i>Computer Physics Communications</i> , 2017, 220, 503-506.	7.5	30
24	Characteristic features of the Shannon information entropy of dipolar Bose-Einstein condensates. <i>Journal of Chemical Physics</i> , 2017, 147, 044304.	3.0	20
25	Dynamical stabilization of two-dimensional trapless Boseâ€Einstein condensates by three-body interaction and quantum fluctuations. <i>Chaos, Solitons and Fractals</i> , 2017, 103, 232-237.	5.1	12
26	Miscibility in coupled dipolar and non-dipolar Boseâ€Einstein condensates. <i>Journal of Physics Communications</i> , 2017, 1, 035012.	1.2	22
27	Matter wave solitons and other localized excitations in Boseâ€Einstein condensates in atom optics. , 2017, , 253-278.		0
28	Modulation instability in quasi-two-dimensional spinâ€orbit coupled Boseâ€Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 245301.	1.5	22
29	Dynamics of trapped interacting vortices in Boseâ€Einstein condensates: a role of breathing degree of freedom. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 315102.	2.1	2
30	OpenMP Fortran and C programs for solving the time-dependent Grossâ€Pitaevskii equation in an anisotropic trap. <i>Computer Physics Communications</i> , 2016, 204, 209-213.	7.5	52
31	OpenMP, OpenMP/MPI, and CUDA/MPI C programs for solving the time-dependent dipolar Grossâ€Pitaevskii equation. <i>Computer Physics Communications</i> , 2016, 209, 190-196.	7.5	39
32	Three-dimensional vortex structures in a rotating dipolar Boseâ€Einstein condensate. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 155301.	1.5	16
33	Manipulating localized matter waves in multicomponent Bose-Einstein condensates. <i>Physical Review E</i> , 2016, 93, 032212.	2.1	29
34	CUDA programs for solving the time-dependent dipolar Grossâ€Pitaevskii equation in an anisotropic trap. <i>Computer Physics Communications</i> , 2016, 200, 406-410.	7.5	51
35	Hybrid OpenMP/MPI programs for solving the time-dependent Grossâ€Pitaevskii equation in a fully anisotropic trap. <i>Computer Physics Communications</i> , 2016, 200, 411-417.	7.5	61
36	Fortran and C programs for the time-dependent dipolar Grossâ€Pitaevskii equation in an anisotropic trap. <i>Computer Physics Communications</i> , 2015, 195, 117-128.	7.5	94

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37	Numerical studies on vortices in rotating dipolar Bose-Einstein condensates. Journal of Physics: Conference Series, 2014, 497, 012036.	0.4	4
38	Effect of optical lattice potentials on the vortices in rotating dipolar Bose-Einstein condensates. European Physical Journal D, 2014, 68, 1.	1.3	9
39	Nonlinear time evolution of coherent states with observation of super revivals in a generalized isotonic oscillator. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1450027.	2.0	0
40	Manipulating matter rogue waves and breathers in Bose-Einstein condensates. Physical Review E, 2014, 90, 062905.	2.1	48
41	Phase-flip transition in coupled time-delayed piecewise linear electronic circuits. , 2014, , .		0
42	Vortical and fundamental solitons in dipolar Bose-Einstein condensates trapped in isotropic and anisotropic nonlinear potentials. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 175302.	1.5	6
43	Observation of phase-flip transition in delay-coupled Nishio-Inaba circuits. European Physical Journal: Special Topics, 2013, 222, 917-926.	2.6	3
44	Identifying financial crises in real time. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1386-1392.	2.6	6
45	Formation and stability of coreless vortex dipoles in phase-separated binary condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 378-386.	2.1	6
46	Collisionally inhomogeneous Bose-Einstein condensates with binary and three-body interactions in a bichromatic optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 155302.	1.5	3
47	Two-dimensional dipolar Bose-Einstein condensate bright and vortex solitons on a one-dimensional optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 045301.	1.5	20
48	Coreless vortex dipoles and trapped droplets in phase-separated binary condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 055303.	1.5	6
49	Vortex dynamics of rotating dipolar Bose-Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 215301.	1.5	22
50	Dipolar Bose-Einstein condensates with large scattering length. Physical Review A, 2012, 85, .	2.5	4
51	Dipolar Bose-Einstein condensate soliton on a two-dimensional optical lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2200-2205.	2.1	21
52	C programs for solving the time-dependent Gross-Pitaevskii equation in a fully anisotropic trap. Computer Physics Communications, 2012, 183, 2021-2025.	7.5	168
53	Anisotropic sound and shock waves in dipolar Bose-Einstein condensate. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 480-483.	2.1	17
54	Numerical and variational solutions of the dipolar Gross-Pitaevskii equation in reduced dimensions. Laser Physics, 2012, 22, 813-820.	1.2	35

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55	Matter wave switching in Bose-Einstein condensates via intensity redistribution soliton interactions. <i>Journal of Mathematical Physics</i> , 2011, 52, .	1.1	30
56	Dynamics of quasi-one-dimensional bright and vortex solitons of a dipolar Bose-Einstein condensate with repulsive atomic interaction. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 101001.	1.5	37
57	Position swapping and pinching in Bose-Fermi mixtures with two-color optical Feshbach resonances. <i>Physical Review A</i> , 2011, 83, .	2.5	4
58	Gap solitons in a dipolar Bose-Einstein condensate on a three-dimensional optical lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 121001.	1.5	24
59	Bright and dark solitons in a quasi-1D Bose-Einstein condensates modelled by 1D Gross-Pitaevskii equation with time-dependent parameters. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 366-386.	2.8	52
60	Stability of trapless Bose-Einstein condensates with two- and three-body interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 125302.	1.5	32
61	Scaling and synchronization in a ring of diffusively coupled nonlinear oscillators. <i>Physical Review E</i> , 2010, 81, 066219.	2.1	5
62	Localization of a dipolar Bose-Einstein condensate in a bichromatic optical lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 205305.	1.5	25
63	Interaction of dark-bright solitons in two-component Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 145307.	1.5	62
64	Fortran programs for the time-dependent Gross-Pitaevskii equation in a fully anisotropic trap. <i>Computer Physics Communications</i> , 2009, 180, 1888-1912.	7.5	332
65	Low dimensional behavior in three-dimensional coupled map lattices. <i>Chaos, Solitons and Fractals</i> , 2009, 41, 997-1004.	5.1	8
66	Transition to complete synchronization in phase-coupled oscillators with nearest neighbor coupling. <i>Chaos</i> , 2009, 19, 013103.	2.5	18
67	Analytical calculation of the transition to complete phase synchronization in coupled oscillators. <i>Pramana - Journal of Physics</i> , 2008, 70, 1143-1151.	1.8	12
68	Coexistence of synchronized and desynchronized patterns in coupled chaotic dynamical systems. <i>Chaos, Solitons and Fractals</i> , 2008, 36, 991-1018.	5.1	4
69	Nonstationary excitations in Bose-Einstein condensates under the action of periodically varying scattering length with time dependent frequencies. <i>Physica D: Nonlinear Phenomena</i> , 2007, 227, 1-7.	2.8	9
70	Local dimension and finite time prediction in coupled map lattices. <i>Pramana - Journal of Physics</i> , 2005, 64, 381-387.	1.8	4
71	Desynchronized wave patterns in synchronized chaotic regions of coupled map lattices. <i>Physical Review E</i> , 2005, 72, 037205.	2.1	7
72	Mean-field model for the interference of matter-waves from a three-dimensional optical trap. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 310, 229-235.	2.1	20

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73	Time series analysis for minority game simulations of financial markets. Physica A: Statistical Mechanics and Its Applications, 2003, 321, 619-632.	2.6	22
74	Local dimension and finite time prediction in spatiotemporal chaotic systems. Physical Review E, 2003, 67, 066204.	2.1	12
75	Bose-Einstein condensation dynamics in three dimensions by the pseudospectral and finite-difference methods. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2501-2513.	1.5	111
76	Chaotic oscillation in an attractive Bose-Einstein condensate under an impulsive force. Physical Review A, 2002, 65, .	2.5	21
77	Bose-Einstein condensation dynamics from the numerical solution of the Gross-Pitaevskii equation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 2831-2843.	1.5	118
78	Effect of an impulsive force on vortices in a rotating Bose-Einstein condensate. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 301, 333-339.	2.1	12
79	SPATIOTEMPORAL DYNAMICS OF COUPLED ARRAY OF MURALI-LAKSHMANAN-CHUA CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 805-830.	1.7	12
80	Comment on "Intermittent Synchronization in a Pair of Coupled Chaotic Pendula". Physical Review Letters, 1999, 83, 1259-1259.	7.8	3
81	Bifurcation analysis of the travelling waveform of FitzHugh-Nagumo nerve conduction model equation. Chaos, 1997, 7, 476-487.	2.5	4