

T Kanna

List of Publications by Year in descending order

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44
papers

1,463
citations

430442

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315357

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docs citations

44
times ranked

411
citing authors

#	ARTICLE	IF	CITATIONS
1	Exact Soliton Solutions, Shape Changing Collisions, and Partially Coherent Solitons in Coupled Nonlinear Schrödinger Equations. <i>Physical Review Letters</i> , 2001, 86, 5043-5046.	2.9	276
2	Exact soliton solutions of coupled nonlinear Schrödinger equations: Shape-changing collisions, logic gates, and partially coherent solitons. <i>Physical Review E</i> , 2003, 67, 046617.	0.8	163
3	Soliton collisions with shape change by intensity redistribution in mixed coupled nonlinear Schrödinger equations. <i>Physical Review E</i> , 2006, 73, 026604.	0.8	154
4	Bright-dark solitons and their collisions in mixed N -coupled nonlinear Schrödinger equations. <i>Physical Review A</i> , 2008, 77, .	1.0	151
5	Coherently coupled bright optical solitons and their collisions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 434018.	0.7	66
6	Multisoliton solutions and energy sharing collisions in coupled nonlinear Schrödinger equations with focusing, defocusing and mixed type nonlinearities. <i>European Physical Journal: Special Topics</i> , 2009, 173, 57-80.	1.2	54
7	Multicomponent coherently coupled and incoherently coupled solitons and their collisions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 285211.	0.7	50
8	Bright solitons in coherently coupled nonlinear Schrödinger equations with alternate signs of nonlinearities. <i>Journal of Mathematical Physics</i> , 2013, 54, .	0.5	44
9	Multicomponent long-wave-short-wave resonance interaction system: Bright solitons, energy-sharing collisions, and resonant solitons. <i>Physical Review E</i> , 2014, 90, 052912.	0.8	39
10	Higher dimensional bright solitons and their collisions in a multicomponent long wave-short wave system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 115103.	0.7	28
11	General multicomponent Yajima-Oikawa system: Painlevé analysis, soliton solutions, and energy-sharing collisions. <i>Physical Review E</i> , 2013, 88, 062921.	0.8	27
12	Periodic energy switching of bright solitons in mixed coupled nonlinear Schrödinger equations with linear self-coupling and cross-coupling terms. <i>Physical Review A</i> , 2007, 76, .	1.0	25
13	Non-autonomous bright-dark solitons and Rabi oscillations in multi-component Bose-Einstein condensates. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 475201.	0.7	24
14	Shape changing collisions of optical solitons, universal logic gates and partially coherent solitons in coupled nonlinear Schrödinger equations. <i>Pramana - Journal of Physics</i> , 2001, 57, 885-916.	0.9	23
15	Mixed solitons in a (2+1)-dimensional multicomponent long-wave-short-wave system. <i>Physical Review E</i> , 2014, 90, 042901.	0.8	23
16	Superposed nonlinear waves in coherently coupled Bose-Einstein condensates. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 3244-3252.	0.9	22
17	Nonlocal M -component nonlinear Schrödinger equations: Bright solitons, energy-sharing collisions, and positons. <i>Physical Review E</i> , 2020, 102, 032201.	0.8	22
18	Nonparaxial elliptic waves and solitary waves in coupled nonlinear Helmholtz equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 39, 134-148.	1.7	21

#	ARTICLE	IF	CITATIONS
19	Cubic-quintic nonlinear Helmholtz equation: Modulational instability, chirped elliptic and solitary waves. <i>Chaos</i> , 2019, 29, 063121.	1.0	18
20	Non-autonomous bright matter wave solitons in spinor Bose-Einstein condensates. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 158-170.	0.9	17
21	Painlevé singularity structure analysis of three component Gross-Pitaevskii type equations. <i>Journal of Mathematical Physics</i> , 2009, 50, .	0.5	16
22	Vector rogue waves and dark-bright boomeronic solitons in autonomous and nonautonomous settings. <i>Physical Review E</i> , 2014, 90, 042912.	0.8	14
23	Harnessing energy-sharing collisions of Manakov solitons to implement universal NOR and OR logic gates. <i>Physical Review E</i> , 2018, 97, 060201.	0.8	14
24	Novel energy sharing collisions of multicomponent solitons. <i>Pramana - Journal of Physics</i> , 2015, 85, 881-897.	0.9	13
25	Explicit construction of single input-single output logic gates from three soliton solution of Manakov system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 36, 391-401.	1.7	13
26	Lie symmetry analysis and group invariant solutions of the nonlinear Helmholtz equation. <i>Applied Mathematics and Computation</i> , 2018, 331, 457-472.	1.4	13
27	Dynamics of bright soliton bound states in (2+1)-dimensional multicomponent long wave-short wave system. <i>European Physical Journal: Special Topics</i> , 2013, 222, 641-653.	1.2	12
28	Engineering optical rogue waves and breathers in a coupled nonlinear Schrödinger system with four-wave mixing effect. <i>Physica Scripta</i> , 2020, 95, 095202.	1.2	12
29	Elliptic waves in two-component long-wave-short-wave resonance interaction system in one and two dimensions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 3093-3101.	0.9	11
30	Vector rogue waves in integrable M-coupled nonlinear Schrödinger equations. <i>Physica Scripta</i> , 2019, 94, 075205.	1.2	11
31	Effect of phase shift in shape changing collision of solitons in coupled nonlinear Schrödinger equations. <i>European Physical Journal B</i> , 2002, 29, 249-254.	0.6	10
32	Multiple double-pole bright-bright and bright-dark solitons and energy-exchanging collision in the M -component nonlinear Schrödinger equations. <i>Physical Review E</i> , 2021, 103, 062214.	0.8	10
33	Manipulation of vector solitons in a system of inhomogeneous coherently coupled nonlinear Schrödinger models with variable nonlinearities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 415701.	0.7	10
34	A study on resonant collision in the two-dimensional multi-component long-wave-short-wave resonance system. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, .	1.0	9
35	Higher-order optical rogue waves in spatially inhomogeneous multimode fiber. <i>Physica D: Nonlinear Phenomena</i> , 2022, 435, 133285.	1.3	9
36	Spatially modulated two- and three-component Rabi-coupled Gross-Pitaevskii systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 375201.	0.7	8

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37	On the integrability aspects of nonparaxial nonlinear Schrödinger equation and the dynamics of solitary waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126729.	0.9	8
38	Bright-dark and dark-dark solitons in coupled nonlinear Schrödinger equation with PT-symmetric potentials. <i>Chaos</i> , 2017, 27, 123102.	1.0	5
39	Non-autonomous bright solitons and their stability in Rabi coupled binary Bose-Einstein condensates. <i>Journal of Physics Communications</i> , 2017, 1, 045005.	0.5	5
40	Reviving modulational instability with third-order dispersion. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 422, 127801.	0.9	4
41	Dynamics of solitons in multicomponent long wave-short wave resonance interaction system. <i>Pramana - Journal of Physics</i> , 2015, 84, 327-338.	0.9	3
42	Protocol of networks using energy sharing collisions of bright solitons. <i>Pramana - Journal of Physics</i> , 2015, 85, 1009-1021.	0.9	3
43	Numerical study of bright-bright-dark soliton dynamics in the mixed coupled nonlinear Schrödinger system. <i>Optik</i> , 2020, 224, 165633.	1.4	3
44	Formation of Bound Soliton Molecules in Multimode Optical Fiber with Temporally Modulated Nonlinearities. , 2021, , .		0