

K Sakkaravarthi

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

412
citations

759233

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752698

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22
all docs

22
docs citations

22
times ranked

168
citing authors

#	ARTICLE	IF	CITATIONS
1	Multicomponent coherently coupled and incoherently coupled solitons and their collisions. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 285211.	2.1	50
2	Bright solitons in coherently coupled nonlinear Schrödinger equations with alternate signs of nonlinearities. Journal of Mathematical Physics, 2013, 54, .	1.1	44
3	Dynamics of higher-order bright and dark rogue waves in a new (2+1)-dimensional integrable Boussinesq model. Physica Scripta, 2020, 95, 115213.	2.5	41
4	Multicomponent long-wave–short-wave resonance interaction system: Bright solitons, energy-sharing collisions, and resonant solitons. Physical Review E, 2014, 90, 052912.	2.1	39
5	Higher dimensional bright solitons and their collisions in a multicomponent long wave–short wave system. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 115103.	2.1	28
6	General multicomponent Yajima-Oikawa system: Painlevé analysis, soliton solutions, and energy-sharing collisions. Physical Review E, 2013, 88, 062921.	2.1	27
7	Benjamin-Ono equation: Rogue waves, generalized breathers, soliton bending, fission, and fusion. European Physical Journal Plus, 2020, 135, 1.	2.6	18
8	Painlevé analysis and higher-order rogue waves of a generalized (3+1)-dimensional shallow water wave equation. Physica Scripta, 2022, 97, 055204.	2.5	18
9	Non-autonomous bright matter wave solitons in spinor Bose–Einstein condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 158-170.	2.1	17
10	Painlevé singularity structure analysis of three component Gross–Pitaevskii type equations. Journal of Mathematical Physics, 2009, 50, .	1.1	16
11	Localized nonlinear waves on spatio-temporally controllable backgrounds for a (3+1)-dimensional Kadomtsev-Petviashvili-Boussinesq model in water waves. Chaos, Solitons and Fractals, 2022, 155, 111652.	5.1	16
12	Novel energy sharing collisions of multicomponent solitons. Pramana - Journal of Physics, 2015, 85, 881-897.	1.8	13
13	Lie symmetry analysis and group invariant solutions of the nonlinear Helmholtz equation. Applied Mathematics and Computation, 2018, 331, 457-472.	2.2	13
14	Higher dimensional localized and periodic wave dynamics in an integrable (2+1)-dimensional deep water oceanic wave model. Waves in Random and Complex Media, 2023, 33, 78-97.	2.7	13
15	Dynamics of bright soliton bound states in (2+1)-dimensional multicomponent long wave-short wave system. European Physical Journal: Special Topics, 2013, 222, 641-653.	2.6	12
16	Engineering optical rogue waves and breathers in a coupled nonlinear Schrödinger system with four-wave mixing effect. Physica Scripta, 2020, 95, 095202.	2.5	12
17	Multiple double-pole bright-bright and bright-dark solitons and energy-exchanging collision in the M -component nonlinear Schrödinger equations. Physical Review E, 2021, 103, 062214.	2.1	10
18	Manipulation of vector solitons in a system of inhomogeneous coherently coupled nonlinear Schrödinger models with variable nonlinearities. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 415701.	2.1	10

#	ARTICLE	IF	CITATIONS
19	Higher-order optical rogue waves in spatially inhomogeneous multimode fiber. <i>Physica D: Nonlinear Phenomena</i> , 2022, 435, 133285.	2.8	9
20	Dynamics of solitons in multicomponent long wave–short wave resonance interaction system. <i>Pramana - Journal of Physics</i> , 2015, 84, 327-338.	1.8	3
21	Protocol of networks using energy sharing collisions of bright solitons. <i>Pramana - Journal of Physics</i> , 2015, 85, 1009-1021.	1.8	3
22	Formation of Bound Soliton Molecules in Multimode Optical Fiber with Temporally Modulated Nonlinearities. , 2021, , .		0