

Philip Rosenau

List of Publications by Year in descending order

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37
papers

2,593
citations

566801

15
h-index

360668

35
g-index

37
all docs

37
docs citations

37
times ranked

799
citing authors

#	ARTICLE	IF	CITATIONS
1	Compactons: Solitons with finite wavelength. <i>Physical Review Letters</i> , 1993, 70, 564-567.	2.9	890
2	Tri-Hamiltonian duality between solitons and solitary-wave solutions having compact support. <i>Physical Review E</i> , 1996, 53, 1900-1906.	0.8	596
3	On nonanalytic solitary waves formed by a nonlinear dispersion. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 230, 305-318.	0.9	181
4	Dynamics of Dense Discrete Systems: High Order Effects. <i>Progress of Theoretical Physics</i> , 1988, 79, 1028-1042.	2.0	157
5	Compact and noncompact dispersive patterns. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 275, 193-203.	0.9	151
6	Hamiltonian dynamics of dense chains and lattices: or how to correct the continuum. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 311, 39-52.	0.9	70
7	Phase Compactons in Chains of Dispersively Coupled Oscillators. <i>Physical Review Letters</i> , 2005, 94, 174102.	2.9	67
8	On a model equation of traveling and stationary compactons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 356, 44-50.	0.9	57
9	Phase compactons. <i>Physica D: Nonlinear Phenomena</i> , 2006, 218, 56-69.	1.3	54
10	Multidimensional Compactons. <i>Physical Review Letters</i> , 2007, 98, 024101.	2.9	50
11	Compact and almost compact breathers: A bridge between an anharmonic lattice and its continuum limit. <i>Chaos</i> , 2005, 15, 015111.	1.0	44
12	Compactons in a class of nonlinearly quintic equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 252, 297-306.	0.9	39
13	Emergence of Compact Structures in a Klein-Gordon Model. <i>Physical Review Letters</i> , 2010, 104, 034101.	2.9	31
14	Compactons. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 343001.	0.7	30
15	Compactification of Nonlinear Patterns and Waves. <i>Physical Review Letters</i> , 2008, 101, 264101.	2.9	28
16	On Burgers-type equations with nonmonotonic dissipative fluxes. <i>Communications on Pure and Applied Mathematics</i> , 1998, 51, 443-473.	1.2	15
17	Compactification of Patterns by a Singular Convection or Stress. <i>Physical Review Letters</i> , 2007, 99, 234102.	2.9	15
18	Pulsating multiplet solutions of quintic wave equations. <i>Physica D: Nonlinear Phenomena</i> , 1998, 123, 502-512.	1.3	14

#	ARTICLE	IF	CITATIONS
19	On compactons induced by a non-convex convection. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 1329-1337.	1.7	14
20	Breathers in strongly anharmonic lattices. Physical Review E, 2014, 89, 022924.	0.8	10
21	On solitary patterns in Lotka-Volterra chains. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 095101.	0.7	10
22	On Hamiltonian formulations of the $C(1, m)$ equation. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 095101.	0.9	10
23	Solid State Physics, 2017, 381, 1557-1562. Solitary waves in an elastic string. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 217, 31-42.	0.9	9
24	Flatons: Flat-top solitons in extended Gardner-like equations. Communications in Nonlinear Science and Numerical Simulation, 2020, 91, 105442.	1.7	8
25	Compact breathers in a quasi-linear Klein-Gordon equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 1663-1667.	0.9	7
26	On singular and sincerely singular compact patterns. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2724-2737.	0.9	7
27	Loss of regularity in the $K(m, n)$ equations. Nonlinearity, 2018, 31, 2651-2665.	0.6	6
28	Multi-dimensional compactons and compact vortices. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 395201.	0.7	5
29	Solitary phase waves in a chain of autonomous oscillators. Chaos, 2020, 30, 053119.	1.0	5
30	On quintic equations with a linear window. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 135-141.	0.9	4
31	On planar compactons with an extended regularity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3558-3567.	0.9	2
32	On Burgers-type equations with nonmonotonic dissipative fluxes. , 1998, 51, 443.		2
33	Compact patterns in a class of sublinear Gardner equations. Communications in Nonlinear Science and Numerical Simulation, 2022, 110, 106384.	1.7	2
34	Class of Lorentz-Invariant compact structures. Physical Review D, 2019, 99, .	1.6	1
35	Waves in strongly nonlinear Gardner-like equations on a lattice. Nonlinearity, 2021, 34, 5872-5896.	0.6	1
36	On essential nonlinearities emerging from linear systems. Wave Motion, 2022, 110, 102881.	1.0	1

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37	Drops and Fingers in a Tempered Ginzburg-Landau set-up. <i>Physica D: Nonlinear Phenomena</i> , 2021, 425, 132956.	1.3	0