Nikos I Karachalios

List of Publications by Year
in descending order

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49	492	840776 11	752698 20
papers	citations	h-index	g-index

51	51	51	224
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global existence and compact attractors for the discrete nonlinear SchrÃ¶dinger equation. Journal of Differential Equations, 2005, 217, 88-123.	2.2	70
2	On the dynamics of a degenerate parabolic equation: global bifurcation of stationary states and convergence. Calculus of Variations and Partial Differential Equations, 2006, 25, 361-393.	1.7	46
3	Existence of a Global Attractor for Semilinear Dissipative Wave Equations on RN. Journal of Differential Equations, 1999, 157, 183-205.	2.2	43
4	Convergence towards attractors for a degenerate Ginzburg-Landau equation. Zeitschrift Fur Angewandte Mathematik Und Physik, 2005, 56, 11-30.	1.4	31
5	Floquet analysis of Kuznetsov-Ma breathers: A path towards spectral stability of rogue waves. Physical Review E, 2017, 96, 012202.	2.1	24
6	Thresholds for breather solutions of the discrete nonlinear SchrÃ¶dinger equation with saturable and power nonlinearity. Discrete and Continuous Dynamical Systems, 2008, 21, 445-475.	0.9	19
7	A REMARK ON THE EXISTENCE OF BREATHER SOLUTIONS FOR THE DISCRETE NONLINEAR SCHRÃ–DINGER EQUATION IN INFINITE LATTICES: THE CASE OF SITE-DEPENDENT ANHARMONIC PARAMETERS. Proceedings of the Edinburgh Mathematical Society, 2006, 49, 115-129.	0.3	18
8	Global attractor for the weakly damped driven SchrÃ¶dinger equation in $ H^2 (mathbb{R}) $. Nonlinear Differential Equations and Applications, 2002, 9, 347-360.	0.8	15
9	Parametric exponential energy decay for dissipative electron-ion plasma waves. Zeitschrift Fur Angewandte Mathematik Und Physik, 2005, 56, 218-238.	1.4	15
10	Escape dynamics in the discrete repulsive model. Physica D: Nonlinear Phenomena, 2013, 244, 1-24.	2.8	13
11	Kuznetsovâ€“Ma breather-like solutions in the Salerno model. European Physical Journal Plus, 2020, 135, 1.	2.6	13
12	Asymptotic behavior of solutions of complex discrete evolution equations: The discrete Ginzburg-Landau equation. Discrete and Continuous Dynamical Systems, 2007, 19, 711-736.	0.9	13
13	Global attractors and convergence to equilibrium for degenerate Ginzburgâ€“Landau and parabolic equations. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, e1749-e1768.	1.1	10
14	Energy thresholds for the existence of breather solutions and travelling waves on lattices. Applicable Analysis, 2010, 89, 1351-1385.	1.3	10
15	Breathers for the Discrete Nonlinear SchrÃ¶dinger Equation with Nonlinear Hopping. Journal of Nonlinear Science, 2013, 23, 205-239.	2.1	10
16	Dynamical playground of a higher-order cubic Ginzburg-Landau equation: From orbital connections and limit cycles to invariant tori and the onset of chaos. Physical Review E, 2016, 94, 012210.	2.1	10
17	Weylâ€™s Type Estimates on the Eigenvalues of Critical SchrÃ¶dinger Operators. Letters in Mathematical Physics, 2008, 83, 189-199.	1.1	9
18	The semiflow of a reaction diffusion equation with a singular potential. Manuscripta Mathematica, 2009, 130, 63-91.	0.6	9

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19	Conservation laws, exact traveling waves and modulation instability for an extended nonlinear SchrÃ¶dinger equation. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 355205.	2.1	9
20	The existence of a global attractor for the discrete nonlinear SchrÃ¶dinger equation. II. Compactness without tail estimates in $mathbb{Z}^N$, $Ngeq1$, lattices. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2007, 137, 63-76.	1.2	7
21	The number of bound states for a discrete SchrÃ¶dinger operator on {b Z}^N, Ngeq1 , lattices. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 455201.	2.1	7
22	Stationary states of a nonlinear SchrÃ¶dinger lattice with a harmonic trap. Journal of Mathematical Physics, 2011, 52, 092701.	1.1	7
23	Spatiotemporal algebraically localized waveforms for a nonlinear SchrÃ¶dinger model with gain and loss. Physica D: Nonlinear Phenomena, 2017, 355, 24-33.	2.8	7
24	Extreme wave events for a nonlinear SchrÃ¶dinger equation with linear damping and Gaussian driving. Communications in Nonlinear Science and Numerical Simulation, 2020, 82, 105058.	3.3	7
25	Solitary and periodic waves in collisionless plasmas: The Adlam-Allen model revisited. Physical Review E, 2020, 102, 013209.	2.1	7
26	Asymptotic behavior of solutions of some nonlinearly damped wave equations on $mathbb R^N$. Topological Methods in Nonlinear Analysis, 2001, 18, 73.	0.2	7
27	Lower and upper estimates on the excitation threshold for breathers in discrete nonlinear SchrÃ¶dinger lattices. Journal of Mathematical Physics, 2009, 50, 112705.	1.1	6
28	Collapse for the higher-order nonlinear SchrÃ¶dinger equation. Physica D: Nonlinear Phenomena, 2016, 316, 57-68.	2.8	5
29	Collapse dynamics for the discrete nonlinear SchrÃ¶dinger equation with gain and loss. Communications in Nonlinear Science and Numerical Simulation, 2019, 72, 213-231.	3.3	5
30	A lower bound for the power of periodic solutions of the defocusing discrete nonlinear SchrÃ¶dinger equation. Dynamics of Partial Differential Equations, 2008, 5, 69-85.	0.9	5
31	Dynamics of nonlocal and local discrete Ginzburgâ€“Landau equations: Global attractors and their congruence. Nonlinear Analysis: Theory, Methods & Applications, 2022, 215, 112647.	1.1	5
32	Excitation of Peregrine-Type Waveforms from Vanishing Initial Conditions in the Presence of Periodic Forcing. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2019, 74, 371-382.	1.5	4
33	The closeness of the Ablowitz-Ladik lattice to the Discrete Nonlinear SchrÃ¶dinger equation. Journal of Differential Equations, 2022, 316, 346-363.	2.2	4
34	GLOBAL EXISTENCE IN INFINITE LATTICES OF NONLINEAR OSCILLATORS: THE DISCRETE KLEIN-GORDON EQUATION. Glasgow Mathematical Journal, 2006, 48, 463.	0.3	3
35	The linearly damped nonlinear SchrÃ¶dinger equation with localized driving: spatiotemporal decay estimates and the emergence of extreme wave events. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	1.4	3
36	Propagation of periodic wave trains along the magnetic field in a collision-free plasma. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 425701.	2.1	3

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37	A sharp estimate and change on the dimension of the attractor for singular semilinear parabolic equations. Archiv Der Mathematik, 2008, 91, 564-576.	0.5	2
38	Self-trapping transition for a nonlinear impurity within a linear chain. Journal of Mathematical Physics, 2014, 55, 102703.	1.1	2
39	Dynamical transitions between equilibria in a dissipative Kleinâ€“Gordon lattice. Journal of Mathematical Analysis and Applications, 2019, 472, 546-576.	1.0	2
40	Regularity of nonvanishing â€“ at infinity or at the boundary â€“ solutions of the defocusing nonlinear SchrÃ¶dinger equation. Communications in Partial Differential Equations, 2021, 46, 233-281.	2.2	2
41	Existence of exponentially spatially localized breather solutions for lattices of nonlinearly coupled particles: Schauderâ€™s fixed point theorem approach. Journal of Mathematical Physics, 2021, 62, .	1.1	2
42	The closeness of localized structures between the Ablowitzâ€“Ladik lattice and discrete nonlinear SchrÃ¶dinger equations: Generalized AL and DNLS systems. Journal of Mathematical Physics, 2022, 63, 042701.	1.1	2
43	Finite-temperature dynamics of matter-wave dark solitons in linear and periodic potentials: An example of an antidamped Josephson junction. Physical Review A, 2012, 86, .	2.5	1
44	Asymptotic behavior of solutions for a semibounded nonmonotone evolution equation. Abstract and Applied Analysis, 2003, 2003, 521-538.	0.7	0
45	A remark on the dimension of the attractor for the Dirichlet problem of the complex Ginzburgâ€“Landau equation. Journal of Mathematical Physics, 2009, 50, .	1.1	0
46	The Lefeverâ€“Lejeune nonlinear lattice: Convergence dynamics and the structure of equilibrium states. Physica D: Nonlinear Phenomena, 2020, 409, 132487.	2.8	0
47	Dynamics of a Higher-Order Ginzburgâ€“Landau-Type Equation. Springer Optimization and Its Applications, 2021, , 187-207.	0.9	0
48	Exciting extreme events in the damped and AC-driven NLS equation through plane-wave initial conditions. Chaos, 2021, 31, 053103.	2.5	0
49	Existence of exponentially and superexponentially spatially localized breather solutions for nonlinear kleinâ€“gordon lattices in â„^d, dÂ‰¥Â1. Proceedings of the Edinburgh Mathematical Society, 0, , 1-20.	0.3	0