

# Nikos I Karachalios

## List of Publications by Year in descending order

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49  
papers

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citations

949033

11  
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843174

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g-index

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Dynamics of nonlocal and local discrete Ginzburg-Landau equations: Global attractors and their congruence. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2022, 215, 112647.	0.6	5
2	The closeness of the Ablowitz-Ladik lattice to the Discrete Nonlinear Schrödinger equation. <i>Journal of Differential Equations</i> , 2022, 316, 346-363.	1.1	4
3	The closeness of localized structures between the Ablowitz-Ladik lattice and discrete nonlinear Schrödinger equations: Generalized AL and DNLS systems. <i>Journal of Mathematical Physics</i> , 2022, 63, 042701.	0.5	2
4	Regularity of nonvanishing "at infinity or at the boundary" solutions of the defocusing nonlinear Schrödinger equation. <i>Communications in Partial Differential Equations</i> , 2021, 46, 233-281.	1.0	2
5	Dynamics of a Higher-Order Ginzburg-Landau-Type Equation. <i>Springer Optimization and Its Applications</i> , 2021, , 187-207.	0.6	0
6	Exciting extreme events in the damped and AC-driven NLS equation through plane-wave initial conditions. <i>Chaos</i> , 2021, 31, 053103.	1.0	0
7	Existence of exponentially spatially localized breather solutions for lattices of nonlinearly coupled particles: Schauder's fixed point theorem approach. <i>Journal of Mathematical Physics</i> , 2021, 62, .	0.5	2
8	Extreme wave events for a nonlinear Schrödinger equation with linear damping and Gaussian driving. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 82, 105058.	1.7	7
9	The linearly damped nonlinear Schrödinger equation with localized driving: spatiotemporal decay estimates and the emergence of extreme wave events. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2020, 71, 1.	0.7	3
10	Solitary and periodic waves in collisionless plasmas: The Adlam-Allen model revisited. <i>Physical Review E</i> , 2020, 102, 013209.	0.8	7
11	Kuznetsov-Ma breather-like solutions in the Salerno model. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	13
12	The Lefever-Lejeune nonlinear lattice: Convergence dynamics and the structure of equilibrium states. <i>Physica D: Nonlinear Phenomena</i> , 2020, 409, 132487.	1.3	0
13	Propagation of periodic wave trains along the magnetic field in a collision-free plasma. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 425701.	0.7	3
14	Collapse dynamics for the discrete nonlinear Schrödinger equation with gain and loss. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 72, 213-231.	1.7	5
15	Excitation of Peregrine-Type Waveforms from Vanishing Initial Conditions in the Presence of Periodic Forcing. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2019, 74, 371-382.	0.7	4
16	Dynamical transitions between equilibria in a dissipative Klein-Gordon lattice. <i>Journal of Mathematical Analysis and Applications</i> , 2019, 472, 546-576.	0.5	2
17	Floquet analysis of Kuznetsov-Ma breathers: A path towards spectral stability of rogue waves. <i>Physical Review E</i> , 2017, 96, 012202.	0.8	24
18	Spatiotemporal algebraically localized waveforms for a nonlinear Schrödinger model with gain and loss. <i>Physica D: Nonlinear Phenomena</i> , 2017, 355, 24-33.	1.3	7

#	ARTICLE	IF	CITATIONS
19	Dynamical playground of a higher-order cubic Ginzburg-Landau equation: From orbital connections and limit cycles to invariant tori and the onset of chaos. <i>Physical Review E</i> , 2016, 94, 012210.	0.8	10
20	Collapse for the higher-order nonlinear Schrödinger equation. <i>Physica D: Nonlinear Phenomena</i> , 2016, 316, 57-68.	1.3	5
21	Conservation laws, exact traveling waves and modulation instability for an extended nonlinear Schrödinger equation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 355205.	0.7	9
22	Self-trapping transition for a nonlinear impurity within a linear chain. <i>Journal of Mathematical Physics</i> , 2014, 55, 102703.	0.5	2
23	Breathers for the Discrete Nonlinear Schrödinger Equation with Nonlinear Hopping. <i>Journal of Nonlinear Science</i> , 2013, 23, 205-239.	1.0	10
24	Escape dynamics in the discrete repulsive model. <i>Physica D: Nonlinear Phenomena</i> , 2013, 244, 1-24.	1.3	13
25	Finite-temperature dynamics of matter-wave dark solitons in linear and periodic potentials: An example of an antidamped Josephson junction. <i>Physical Review A</i> , 2012, 86, .	1.0	1
26	Stationary states of a nonlinear Schrödinger lattice with a harmonic trap. <i>Journal of Mathematical Physics</i> , 2011, 52, 092701.	0.5	7
27	Energy thresholds for the existence of breather solutions and travelling waves on lattices. <i>Applicable Analysis</i> , 2010, 89, 1351-1385.	0.6	10
28	Lower and upper estimates on the excitation threshold for breathers in discrete nonlinear Schrödinger lattices. <i>Journal of Mathematical Physics</i> , 2009, 50, 112705.	0.5	6
29	The semiflow of a reaction diffusion equation with a singular potential. <i>Manuscripta Mathematica</i> , 2009, 130, 63-91.	0.3	9
30	A remark on the dimension of the attractor for the Dirichlet problem of the complex Ginzburg-Landau equation. <i>Journal of Mathematical Physics</i> , 2009, 50, .	0.5	0
31	Weyl's Type Estimates on the Eigenvalues of Critical Schrödinger Operators. <i>Letters in Mathematical Physics</i> , 2008, 83, 189-199.	0.5	9
32	A sharp estimate and change on the dimension of the attractor for singular semilinear parabolic equations. <i>Archiv Der Mathematik</i> , 2008, 91, 564-576.	0.3	2
33	The number of bound states for a discrete Schrödinger operator on $\{b\mathbb{Z}\}^N, N \geq 1$ , lattices. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 455201.	0.7	7
34	Thresholds for breather solutions of the discrete nonlinear Schrödinger equation with saturable and power nonlinearity. <i>Discrete and Continuous Dynamical Systems</i> , 2008, 21, 445-475.	0.5	19
35	A lower bound for the power of periodic solutions of the defocusing discrete nonlinear Schrödinger equation. <i>Dynamics of Partial Differential Equations</i> , 2008, 5, 69-85.	1.0	5
36	The existence of a global attractor for the discrete nonlinear Schrödinger equation. II. Compactness without tail estimates in $\mathbb{Z}^N, N \geq 1$ , lattices. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2007, 137, 63-76.	0.8	7

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37	Asymptotic behavior of solutions of complex discrete evolution equations: The discrete Ginzburg-Landau equation. <i>Discrete and Continuous Dynamical Systems</i> , 2007, 19, 711-736.	0.5	13
38	GLOBAL EXISTENCE IN INFINITE LATTICES OF NONLINEAR OSCILLATORS: THE DISCRETE KLEIN-GORDON EQUATION. <i>Glasgow Mathematical Journal</i> , 2006, 48, 463.	0.2	3
39	On the dynamics of a degenerate parabolic equation: global bifurcation of stationary states and convergence. <i>Calculus of Variations and Partial Differential Equations</i> , 2006, 25, 361-393.	0.9	46
40	A REMARK ON THE EXISTENCE OF BREATHER SOLUTIONS FOR THE DISCRETE NONLINEAR SCHRÖDINGER EQUATION IN INFINITE LATTICES: THE CASE OF SITE-DEPENDENT ANHARMONIC PARAMETERS. <i>Proceedings of the Edinburgh Mathematical Society</i> , 2006, 49, 115-129.	0.2	18
41	Global existence and compact attractors for the discrete nonlinear Schrödinger equation. <i>Journal of Differential Equations</i> , 2005, 217, 88-123.	1.1	70
42	Global attractors and convergence to equilibrium for degenerate Ginzburg-Landau and parabolic equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2005, 63, e1749-e1768.	0.6	10
43	Convergence towards attractors for a degenerate Ginzburg-Landau equation. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2005, 56, 11-30.	0.7	31
44	Parametric exponential energy decay for dissipative electron-ion plasma waves. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2005, 56, 218-238.	0.7	15
45	Asymptotic behavior of solutions for a semibounded nonmonotone evolution equation. <i>Abstract and Applied Analysis</i> , 2003, 2003, 521-538.	0.3	0
46	Global attractor for the weakly damped driven Schrödinger equation in $H^2(\mathbb{R})$ . <i>Nonlinear Differential Equations and Applications</i> , 2002, 9, 347-360.	0.4	15
47	Asymptotic behavior of solutions of some nonlinearly damped wave equations on $\mathbb{R}^N$ . <i>Topological Methods in Nonlinear Analysis</i> , 2001, 18, 73.	0.2	7
48	Existence of a Global Attractor for Semilinear Dissipative Wave Equations on $\mathbb{R}^N$ . <i>Journal of Differential Equations</i> , 1999, 157, 183-205.	1.1	43
49	Existence of exponentially and superexponentially spatially localized breather solutions for nonlinear Klein-Gordon lattices in $\mathbb{Z}^d$ . <i>Proceedings of the Edinburgh Mathematical Society</i> , 0, 1-20.	0.2	0