

Jes s Cuevas-Maraver

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5823480/publications.pdf>

Version: 2024-02-01

114
papers

2,210
citations

201674

27
h-index

289244

40
g-index

118
all docs

118
docs citations

118
times ranked

1118
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete embedded solitary waves and breathers in one-dimensional nonlinear lattices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 425, 127880.	2.1	2
2	The closeness of the Ablowitz-Ladik lattice to the Discrete Nonlinear Schrödinger equation. Journal of Differential Equations, 2022, 316, 346-363.	2.2	4
3	Moving discrete breathers in a $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1527" altimg="si5.svg" \rangle \langle \text{mml:mi} \rangle^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -FPU lattice revisited. Communications in Nonlinear Science and Numerical Simulation, 2022, 111, 106435.	3.3	0
4	The closeness of localized structures between the Ablowitz-Ladik lattice and discrete nonlinear Schrödinger equations: Generalized AL and DNLS systems. Journal of Mathematical Physics, 2022, 63, 042701.	1.1	2
5	Floquet solitons in square lattices: Existence, stability, and dynamics. Physical Review E, 2022, 105, 044211.	2.1	3
6	Breather stripes and radial breathers of the two-dimensional sine-Gordon equation. Communications in Nonlinear Science and Numerical Simulation, 2021, 94, 105596.	3.3	9
7	Easing COVID-19 lockdown measures while protecting the older restricts the deaths to the level of the full lockdown. Scientific Reports, 2021, 11, 5839.	3.3	14
8	Lockdown measures and their impact on single- and two-age-structured epidemic model for the COVID-19 outbreak in Mexico. Mathematical Biosciences, 2021, 336, 108590.	1.9	17
9	Reaction-diffusion spatial modeling of COVID-19: Greece and Andalusia as case examples. Physical Review E, 2021, 104, 024412.	2.1	23
10	A quantitative framework for exploring exit strategies from the COVID-19 lockdown. Chaos, Solitons and Fractals, 2020, 140, 110244.	5.1	21
11	Nonlinear edge modes in a honeycomb electrical lattice near the Dirac points. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126664.	2.1	2
12	Kuznetsov-Ma breather-like solutions in the Salerno model. European Physical Journal Plus, 2020, 135, 1.	2.6	13
13	Stability of traveling waves in a driven Frenkel-Kontorova model. Communications in Nonlinear Science and Numerical Simulation, 2020, 85, 105236.	3.3	4
14	Vortex pairs in the discrete nonlinear Schrödinger equation. Nonlinearity, 2020, 33, 2159-2180.	1.4	3
15	Nonlinearity and Topology. Advances in Dynamics, Patterns, Cognition, 2020, , 25-54.	0.3	4
16	Speed-of-light pulses in a massless nonlinear Dirac equation. Physical Review E, 2019, 100, 022210.	2.1	3
17	Experimental and numerical observation of dark and bright breathers in the band gap of a diatomic electrical lattice. Physical Review E, 2019, 99, 032206.	2.1	21
18	Induced localized nonlinear modes in an electrical lattice. Physica Scripta, 2019, 94, 065210.	2.5	5

#	ARTICLE	IF	CITATIONS
19	Continuous families of solitary waves in non-symmetric complex potentials: A Melnikov theory approach. <i>Chaos, Solitons and Fractals</i> , 2019, 118, 222-233.	5.1	14
20	Solitary waves in the Ablowitz-Ladik equation with power-law nonlinearity. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 065202.	2.1	5
21	Growth of nanocolumnar thin films on patterned substrates at oblique angles. <i>Plasma Processes and Polymers</i> , 2019, 16, 1800135.	3.0	11
22	Stabilization of the Peregrine soliton and Kuznetsov-Ma breathers by means of nonlinearity and dispersion management. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 968-972.	2.1	14
23	Interactions and scattering of quantum vortices in a polariton fluid. <i>Nature Communications</i> , 2018, 9, 1467.	12.8	46
24	An energy-based stability criterion for solitary travelling waves in Hamiltonian lattices. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170192.	3.4	13
25	Nonlinear Beam Propagation in a Class of Complex Non-PT-Symmetric Potentials. <i>Springer Tracts in Modern Physics</i> , 2018, , 557-579.	0.1	2
26	Solitary Waves in the Nonlinear Dirac Equation. <i>Understanding Complex Systems</i> , 2018, , 89-143.	0.6	5
27	Hydrodynamics and two-dimensional dark lump solitons for polariton superfluids. <i>Physical Review E</i> , 2018, 98, 022205.	2.1	6
28	A Korteweg-de Vries description of dark solitons in polariton superfluids. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 3805-3811.	2.1	5
29	Unifying perspective: Solitary traveling waves as discrete breathers in Hamiltonian lattices and energy criteria for their stability. <i>Physical Review E</i> , 2017, 96, 032214.	2.1	19
30	Solitary waves in a two-dimensional nonlinear Dirac equation: from discrete to continuum. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 495207.	2.1	7
31	Floquet analysis of Kuznetsov-Ma breathers: A path towards spectral stability of rogue waves. <i>Physical Review E</i> , 2017, 96, 012202.	2.1	24
32	Propagation studies for the construction of atomic macro-coherence in dense media as a tool to investigate neutrino physics. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	3
33	A PT-Symmetric Dual-Core System with the Sine-Gordon Nonlinearity and Derivative Coupling. <i>Symmetry</i> , 2016, 8, 39.	2.2	5
34	Impulse-induced generation of stationary and moving discrete breathers in nonlinear oscillator networks. <i>Physical Review E</i> , 2016, 94, 062206.	2.1	6
35	Energy Criterion for the Spectral Stability of Discrete Breathes. <i>Physical Review Letters</i> , 2016, 117, 094101.	7.8	20
36	SO(2)-induced breathing patterns in multicomponent Bose-Einstein condensates. <i>Physical Review A</i> , 2016, 93, .	2.5	26

#	ARTICLE	IF	CITATIONS
37	Impulse-induced localized control of chaos in starlike networks. <i>Physical Review E</i> , 2016, 93, 062210.	2.1	14
38	Stability of Solitary Waves and Vortices in a 2D Nonlinear Dirac Model. <i>Physical Review Letters</i> , 2016, 116, 214101.	7.8	27
39	Nonlinear Instabilities of Multi-site Breathers in Klein-Gordon Lattices. <i>Studies in Applied Mathematics</i> , 2016, 137, 214-237.	2.4	11
40	Solitary Waves of a \mathcal{PT} -Symmetric Nonlinear Dirac Equation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 67-75.	2.9	12
41	Interplay between parity-time symmetry, supersymmetry, and nonlinearity: An analytically tractable case example. <i>Physical Review E</i> , 2015, 92, 042901.	2.1	21
42	Solitary waves in a discrete nonlinear Dirac equation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 055204.	2.1	9
43	\mathcal{PT} -Symmetric Dimer in a Generalized Model of Coupled Nonlinear Oscillators. <i>International Journal of Theoretical Physics</i> , 2015, 54, 3960-3985.	1.2	4
44	\mathcal{PT} -symmetric sine-Gordon breathers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 455101.	2.1	8
45	Collective coordinates theory for discrete soliton ratchets in the sine-Gordon model. <i>Physical Review E</i> , 2014, 90, 042922.	2.1	4
46	From nodeless clouds and vortices to gray ring solitons and symmetry-broken states in two-dimensional polariton condensates. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 155801.	1.8	14
47	Breathers for the Discrete Nonlinear Schrödinger Equation with Nonlinear Hopping. <i>Journal of Nonlinear Science</i> , 2013, 23, 205-239.	2.1	10
48	Coupled backward- and forward-propagating solitons in a composite right- and left-handed transmission line. <i>Physical Review E</i> , 2013, 88, 013203.	2.1	37
49	Nonlinear localized modes in two-dimensional electrical lattices. <i>Physical Review E</i> , 2013, 88, 022912.	2.1	41
50	Multibreathers in Klein-Gordon chains with interactions beyond nearest neighbors. <i>Physica D: Nonlinear Phenomena</i> , 2013, 242, 16-29.	2.8	24
51	Scattering of atomic dark-bright solitons from narrow impurities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 065302.	1.5	38
52	Breathers in oscillator chains with Hertzian interactions. <i>Physica D: Nonlinear Phenomena</i> , 2013, 251, 39-59.	2.8	65
53	Escape dynamics in the discrete repulsive model. <i>Physica D: Nonlinear Phenomena</i> , 2013, 244, 1-24.	2.8	13
54	\mathcal{PT} -symmetric dimer of coupled nonlinear oscillators. <i>Physical Review A</i> , 2013, 88, .	2.5	45

#	ARTICLE	IF	CITATIONS
55	Interactions of solitons with a Gaussian barrier: splitting and recombination in quasi-one-dimensional and three-dimensional settings. <i>New Journal of Physics</i> , 2013, 15, 063006.	2.9	50
56	PT-symmetry management in oligomer systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 485101.	2.1	13
57	Generation of Localized Modes in an Electrical Lattice Using Subharmonic Driving. <i>Physical Review Letters</i> , 2012, 108, 084101.	7.8	42
58	Beating dark-dark solitons in Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 115301.	1.5	65
59	Dark lattice solitons in one-dimensional waveguide arrays with defocusing saturable nonlinearity and alternating couplings. <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	11
60	Stability of non-time-reversible phonobreathers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 035102.	2.1	12
61	Existence of dark solitons in a class of stationary nonlinear Schrödinger equations with periodically modulated nonlinearity and periodic asymptotics. <i>Journal of Mathematical Physics</i> , 2011, 52, 032702.	1.1	9
62	Discrete breathers in a nonlinear electric line: Modeling, computation, and experiment. <i>Physical Review E</i> , 2011, 84, 026605.	2.1	36
63	Dark-bright gap solitons in coupled-mode one-dimensional saturable waveguide arrays. <i>Physical Review A</i> , 2011, 83, .	2.5	19
64	Dark-bright discrete solitons: A numerical study of existence, stability and dynamics. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 767-778.	2.8	15
65	Josephson tunnelling of dark solitons in a double-well potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 095003.	1.5	10
66	Nonlinear excitations, stability inversions, and dissipative dynamics in quasi-one-dimensional polariton condensates. <i>Physical Review B</i> , 2011, 83, .	3.2	14
67	Quasidiscrete microwave solitons in a split-ring-resonator-based left-handed coplanar waveguide. <i>Physical Review E</i> , 2011, 83, 046608.	2.1	29
68	MULTIBREATHER AND VORTEX BREATHER STABILITY IN KLEIN-GORDON LATTICES: EQUIVALENCE BETWEEN TWO DIFFERENT APPROACHES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 2161-2177.	1.7	18
69	Interaction of moving discrete breathers with interstitial defects. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2011, 4, 1057-1067.	1.1	6
70	Breathers and kinks in a simulated crystal experiment. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2011, 4, 1107-1118.	1.1	13
71	Collisions of Discrete Breathers in Nonlinear Schrödinger and Klein-Gordon Lattices. , 2011, , 159-164.		0
72	Regular and chaotic transport of discrete solitons in asymmetric potentials. <i>Physical Review E</i> , 2010, 82, 016604.	2.1	6

#	ARTICLE	IF	CITATIONS
73	Energy thresholds for the existence of breather solutions and travelling waves on lattices. <i>Applicable Analysis</i> , 2010, 89, 1351-1385.	1.3	10
74	Nucleation of Breathers via Stochastic Resonance in Nonlinear Lattices. <i>Physical Review Letters</i> , 2009, 102, 205505.	7.8	21
75	Solitons in quasi-one-dimensional Bose-Einstein condensates with competing dipolar and local interactions. <i>Physical Review A</i> , 2009, 79, .	2.5	93
76	Lower and upper estimates on the excitation threshold for breathers in discrete nonlinear Schrödinger lattices. <i>Journal of Mathematical Physics</i> , 2009, 50, 112705.	1.1	6
77	BREATHERS IN INHOMOGENEOUS NONLINEAR LATTICES: AN ANALYSIS VIA CENTER MANIFOLD REDUCTION. <i>Reviews in Mathematical Physics</i> , 2009, 21, 1-59.	1.7	33
78	Solitons for the cubic-quintic nonlinear Schrödinger equation with time- and space-modulated coefficients. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 165201.	2.1	62
79	Vortex Solutions of the Defocusing Discrete Nonlinear Schrödinger Equation. , 2009, , .		0
80	Discrete solitons in nonlinear Schrödinger lattices with a power-law nonlinearity. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 67-76.	2.8	33
81	Vortex solutions of the discrete Gross-Pitaevskii equation starting from the anti-continuum limit. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1422-1431.	2.8	11
82	Interlaced solitons and vortices in coupled DNLS lattices. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 2216-2226.	2.8	8
83	Moving breather collisions in Klein-Gordon chains of oscillators. <i>European Physical Journal B</i> , 2009, 70, 543-555.	1.5	2
84	Discrete Breathers in a Forced-Damped Array of Coupled Pendula: Modeling, Computation, and Experiment. <i>Physical Review Letters</i> , 2009, 102, 224101.	7.8	77
85	DNLS with Impurities. <i>Springer Tracts in Modern Physics</i> , 2009, , 353-368.	0.1	0
86	Discrete Nonlinear Schrödinger Equations with Time-Dependent Coefficients (Management of Lattice) Tj ETQq0 0.0 rgBT /Oerlock 10	0.1	0
87	Discrete moving breather collisions in a Klein-Gordon chain of oscillators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 1256-1264.	2.1	10
88	Travelling solitary waves in the discrete Schrödinger equation with saturable nonlinearity: Existence, stability and dynamics. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 551-567.	2.8	48
89	Solitons in one-dimensional nonlinear Schrödinger lattices with a local inhomogeneity. <i>Physical Review E</i> , 2008, 77, 036614.	2.1	23
90	Approximation of Solitons in the Discrete NLS Equation. <i>Journal of Nonlinear Mathematical Physics</i> , 2008, 15, 124.	1.3	17

#	ARTICLE	IF	CITATIONS
91	Effect of Breather Existence on Reconstructive Transformations in Mica Muscovite. AIP Conference Proceedings, 2008, , .	0.4	5
92	Dynamics of the Davydov-Scott monomer in a thermal bath: Comparison of the full quantum and semiclassical approaches. Physical Review E, 2007, 76, 011907.	2.1	6
93	Two-dimensional discrete solitons in rotating lattices. Physical Review E, 2007, 76, 046608.	2.1	27
94	Existence of bound states of a polaron with a breather in soft potentials. Physical Review B, 2006, 74, .	3.2	14
95	Discrete Breathers for Understanding Reconstructive Mineral Processes at Low Temperatures. Journal of Physical Chemistry B, 2006, 110, 24112-24120.	2.6	32
96	Interaction of moving discrete breathers with vacancies. Physica D: Nonlinear Phenomena, 2006, 216, 115-120.	2.8	24
97	Discrete soliton collisions in a waveguide array with saturable nonlinearity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 358, 15-20.	2.1	30
98	Breather trapping and breather transmission in a DNA model with an interface. European Physical Journal B, 2006, 51, 119-130.	1.5	24
99	Radiationless Traveling Waves in Saturable Nonlinear Schrödinger Lattices. Physical Review Letters, 2006, 97, 124101.	7.8	92
100	Discrete peakons. Physica D: Nonlinear Phenomena, 2005, 207, 137-160.	2.8	6
101	Effect of the introduction of impurities on the stability properties of multibreathers at low coupling. Nonlinearity, 2005, 18, 769-790.	1.4	11
102	Motion of discrete solitons assisted by nonlinearity management. Physical Review E, 2005, 71, 066614.	2.1	27
103	Breather statics and dynamics in Klein-Gordon chains with a bend. Physical Review E, 2004, 69, 056609.	2.1	14
104	Bright and dark breathers in Fermi-Pasta-Ulam lattices. Physical Review B, 2004, 70, .	3.2	33
105	MOVING BREATHERS IN BENT DNA WITH REALISTIC PARAMETERS. Modern Physics Letters B, 2004, 18, 1319-1326.	1.9	15
106	Title is missing!. Theoretical and Mathematical Physics(Russian Federation), 2003, 137, 1406-1411.	0.9	5
107	Demonstration of the stability or instability of multibreathers at low coupling. Physica D: Nonlinear Phenomena, 2003, 180, 235-255.	2.8	50
108	Influence of moving breathers on vacancies migration. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 315, 364-371.	2.1	36

#	ARTICLE	IF	CITATIONS
109	Stationary and moving breathers in a simplified model of curved alpha-helix proteins. Journal of Physics A, 2002, 35, 8885-8902.	1.6	18
110	Moving discrete breathers in a Klein-Gordon chain with an impurity. Journal of Physics A, 2002, 35, 10519-10530.	1.6	46
111	Moving breathers in a DNA model with competing short-and long-range dispersive interactions. Physica D: Nonlinear Phenomena, 2002, 163, 106-126.	2.8	48
112	Moving breathers in a bent DNA model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 299, 221-225.	2.1	30
113	Numerical study of two-dimensional disordered Klein-Gordon lattices with cubic soft anharmonicity. Journal of Physics A, 2001, 34, L221-L230.	1.6	5
114	Mixed dispersion nonlinear Schrödinger equation in higher dimensions: theoretical analysis and numerical computations. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	3