

Magnus Johansson

List of Publications by Year in descending order

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84
papers

2,029
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218677

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84
docs citations

84
times ranked

813
citing authors

#	ARTICLE	IF	CITATIONS
1	Discreteness-Induced Oscillatory Instabilities of Dark Solitons. <i>Physical Review Letters</i> , 1999, 82, 85-88.	7.8	109
2	Existence and stability of quasiperiodic breathers in the discrete nonlinear Schrödinger equation. <i>Nonlinearity</i> , 1997, 10, 1151-1178.	1.4	89
3	Growth and decay of discrete nonlinear Schrödinger breathers interacting with internal modes or standing-wave phonons. <i>Physical Review E</i> , 2000, 61, 5864-5879.	2.1	83
4	Bridging the pressure gap for palladium metal-insulator-semiconductor hydrogen sensors in oxygen containing environments. <i>Journal of Applied Physics</i> , 1998, 84, 44-51.	2.5	79
5	Models for energy and charge transport and storage in biomolecules. <i>Journal of Biological Physics</i> , 1999, 25, 41-63.	1.5	76
6	Localization of electrons and electromagnetic waves in a deterministic aperiodic system. <i>Physical Review B</i> , 1992, 45, 105-114.	3.2	74
7	Enhanced mobility of strongly localized modes in waveguide arrays by inversion of stability. <i>Physical Review E</i> , 2003, 67, 056606.	2.1	68
8	Discrete soliton mobility in two-dimensional waveguide arrays with saturable nonlinearity. <i>Physical Review E</i> , 2006, 73, 046602.	2.1	67
9	Standing wave instabilities in a chain of nonlinear coupled oscillators. <i>Physica D: Nonlinear Phenomena</i> , 2002, 162, 53-94.	2.8	64
10	Discrete flat-band solitons in the kagome lattice. <i>Physical Review A</i> , 2013, 87, .	2.5	55
11	Effects of nonlinearity on the time evolution of single-site localized states in periodic and aperiodic discrete systems. <i>Physical Review B</i> , 1995, 52, 231-240.	3.2	54
12	KAM tori in 1D random discrete nonlinear Schrödinger model?. <i>Europhysics Letters</i> , 2010, 91, 50001.	2.0	54
13	Gap and out-gap breathers in a binary modulated discrete nonlinear Schrödinger model. <i>European Physical Journal D</i> , 2004, 29, 77-93.	1.3	53
14	Dynamics of breathers in discrete nonlinear Schrödinger models. <i>Physica D: Nonlinear Phenomena</i> , 1998, 119, 115-124.	2.8	52
15	THE DISCRETE NONLINEAR SCHRÖDINGER EQUATION " 20 YEARS ON. , 2003, , .		45
16	Statistical mechanics of general discrete nonlinear Schrödinger models: Localization transition and its relevance for Klein-Gordon lattices. <i>Physical Review E</i> , 2004, 70, 066610.	2.1	43
17	Discrete nonlinear Schrödinger approximation of a mixed Klein-Gordon/Fermi-Pasta-Ulam chain: Modulational instability and a statistical condition for creation of thermodynamic breathers. <i>Physica D: Nonlinear Phenomena</i> , 2006, 216, 62-70.	2.8	41
18	Discrete gap breathers in a diatomic Klein-Gordon chain: Stability and mobility. <i>Physical Review E</i> , 2003, 67, 066608.	2.1	39

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19	Localized excitations in discrete nonlinear Schrödinger systems: Effects of nonlocal dispersive interactions and noise. <i>Physica D: Nonlinear Phenomena</i> , 1998, 113, 134-151.	2.8	38
20	Transmission thresholds in time-periodically driven nonlinear disordered systems. <i>Europhysics Letters</i> , 2009, 86, 10009.	2.0	35
21	Unusual scaling of the spectrum in a deterministic aperiodic tight-binding model. <i>Physical Review B</i> , 1993, 47, 8547-8551.	3.2	34
22	Stable stationary and quasiperiodic discrete vortex breathers with topological charge $S=2$. <i>Physical Review E</i> , 2006, 73, 066608.	2.1	34
23	Breather-phonon resonances in finite-size lattices: "phantom breathers"? <i>Journal of Physics A</i> , 2002, 35, 4999-5021.	1.6	33
24	Trace-map invariant and zero-energy states of the tight-binding Rudin-Shapiro model. <i>Physical Review B</i> , 1992, 46, 3296-3304.	3.2	30
25	Hamiltonian Hopf bifurcations in the discrete nonlinear Schrödinger trimer: oscillatory instabilities, quasi-periodic solutions and a "new" type of self-trapping transition. <i>Journal of Physics A</i> , 2004, 37, 2201-2222.	1.6	30
26	Compactification tuning for nonlinear localized modes in sawtooth lattices. <i>Physical Review E</i> , 2015, 92, 032912.	2.1	30
27	Oscillatory Instabilities of Standing Waves in One-Dimensional Nonlinear Lattices. <i>Physical Review Letters</i> , 2000, 85, 550-553.	7.8	29
28	Breatherlike excitations in discrete lattices with noise and nonlinear damping. <i>Physical Review B</i> , 1997, 55, 5759-5766.	3.2	26
29	Solitonlike states in a one-dimensional nonlinear Schrödinger equation with a deterministic aperiodic potential. <i>Physical Review B</i> , 1994, 49, 6587-6600.	3.2	25
30	Solitary excitations in discrete two-dimensional nonlinear Schrödinger models with dispersive dipole-dipole interactions. <i>Physical Review B</i> , 1998, 57, 11303-11318.	3.2	25
31	Self-dual model for one-dimensional incommensurate crystals including next-nearest-neighbor hopping, and its relation to the Hofstadter model. <i>Physical Review B</i> , 1991, 43, 13468-13475.	3.2	24
32	Switching between bistable states in a discrete nonlinear model with long-range dispersion. <i>Physical Review E</i> , 1998, 57, 4739-4742.	2.1	24
33	Mobility edges and multifractal properties in a one-dimensional system with three incommensurate frequencies. <i>Physical Review B</i> , 1990, 42, 8244-8254.	3.2	22
34	Nonlocal and nonlinear dispersion in a nonlinear Schrödinger-type equation: exotic solitons and short-wavelength instabilities. <i>Physica D: Nonlinear Phenomena</i> , 2004, 198, 29-50.	2.8	22
35	Standing wave instabilities, breather formation and thermalization in a Hamiltonian anharmonic lattice. <i>European Physical Journal B</i> , 2002, 29, 279-283.	1.5	20
36	Silicon heterojunction bipolar power transistor with an amorphous Si:B alloy emitter. <i>Applied Physics Letters</i> , 1992, 61, 1316-1318.	3.3	19

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37	Discrete gap solitons in waveguide arrays with alternating spacings. <i>Physical Review A</i> , 2009, 79, .	2.5	19
38	Peierls-Nabarro energy surfaces and directional mobility of discrete solitons in two-dimensional saturable nonlinear Schrödinger lattices. <i>Physical Review E</i> , 2011, 83, 036601.	2.1	18
39	Quantum signatures of an oscillatory instability in the Bose-Hubbard trimer. <i>Physical Review E</i> , 2012, 86, 016214.	2.1	18
40	Localized modes in nonlinear binary kagome ribbons. <i>Physical Review E</i> , 2015, 92, 052916.	2.1	17
41	Collapse of solitary excitations in the nonlinear Schrödinger equation with nonlinear damping and white noise. <i>Physical Review E</i> , 1996, 54, 924-930.	2.1	16
42	Two-dimensional effects in nonlinear Kronig-Penney models. <i>Physical Review B</i> , 1997, 55, R13365-R13368.	3.2	16
43	Phase twisted modes and current reversals in a lattice model of waveguide arrays with nonlinear coupling. <i>Physical Review E</i> , 2005, 71, 025601.	2.1	15
44	Discrete dark solitons with multiple holes. <i>Physical Review E</i> , 2005, 72, 016605.	2.1	15
45	Strongly localized moving discrete dissipative breather-solitons in Kerr nonlinear media supported by intrinsic gain. <i>Physical Review E</i> , 2014, 89, 042912.	2.1	15
46	Stabilization of nonlinear excitations by disorder. <i>Physical Review B</i> , 1997, 56, 14407-14413.	3.2	13
47	Decay of discrete nonlinear Schrödinger breathers through inelastic multiphonon scattering. <i>Physical Review E</i> , 2001, 63, 037601.	2.1	13
48	Quasiperiodic localized oscillating solutions in the discrete nonlinear Schrödinger equation with alternating on-site potential. <i>Physical Review E</i> , 2004, 70, 057604.	2.1	13
49	Localized gap modes in nonlinear dimerized Lieb lattices. <i>Physical Review A</i> , 2017, 96, .	2.5	13
50	Soliton dynamics and interaction in a deterministic aperiodic nonlinear lattice. <i>Physical Review B</i> , 1994, 50, 9860-9867.	3.2	12
51	Exact numerical solutions for dark waves on the discrete nonlinear Schrödinger equation. <i>Physical Review E</i> , 2005, 71, 036627.	2.1	11
52	Stability, mobility and power currents in a two-dimensional model for waveguide arrays with nonlinear coupling. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 88-99.	2.8	11
53	Gap and out-gap solitons in modulated systems of finite length: exact solutions in the slowly varying envelope limit. <i>Physica Scripta</i> , 2011, 83, 065005.	2.5	11
54	Quantitative relationships between pigment-related mRNA and biochemical melanoma markers in melanoma cell lines. <i>Melanoma Research</i> , 2002, 12, 193-200.	1.2	10

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55	The nonlinear Schrödinger system: collapse, nonlinear damping, noise, impurities and nonlocal dispersion. <i>Physica Scripta</i> , 1996, T67, 151-159.	2.5	10
56	Quantum nonlinear lattices and coherent state vectors. <i>Physica D: Nonlinear Phenomena</i> , 1999, 134, 126-143.	2.8	9
57	Discrete solitons in coupled active lasing cavities. <i>Optics Letters</i> , 2012, 37, 4600.	3.3	9
58	Exact localized eigenstates for an extended Bose-Hubbard model with pair-correlated hopping. <i>Physical Review A</i> , 2012, 85, .	2.5	9
59	Energy spectrum, transmittance, and localization in an incommensurate nonanalytic potential. <i>Physical Review B</i> , 1990, 41, 6032-6035.	3.2	8
60	Title is missing!. <i>Journal of Physics A</i> , 1995, 28, 479-495.	1.6	7
61	Comment on "Localized vortices with a semi-integer charge in nonlinear dynamical lattices", <i>Physical Review E</i> , 2002, 66, 048601; author reply 048602.	2.1	7
62	Magnetic polarons in one-dimensional antiferromagnetic chains. <i>Physical Review B</i> , 2006, 74, .	3.2	7
63	Discrete reduced-symmetry solitons and second-band vortices in two-dimensional nonlinear waveguide arrays. <i>Physical Review E</i> , 2009, 80, 046604.	2.1	7
64	Comment on "Localization-delocalization transition in self-dual quasi-periodic lattices" by Sun M. L. et al.. <i>Europhysics Letters</i> , 2015, 112, 17002.	2.0	7
65	Stability analysis of numerically exact time-periodic breathers in the Lugiato-Lefever equation: Discrete vs continuum. <i>Physical Review Research</i> , 2019, 1, .	3.6	7
66	Stability of nonstationary states of spin-1 Bose-Einstein condensates. <i>Physical Review A</i> , 2011, 84, .	2.5	6
67	Quantum dynamics of lattice states with compact support in an extended Bose-Hubbard model. <i>Physical Review A</i> , 2013, 88, .	2.5	5
68	Multichannel asymmetric transmission through a dimer defect with saturable inter-site nonlinearity. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 395702.	2.1	5
69	The appearance of gap solitons in a nonlinear Schrödinger lattice. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 269-278.	2.8	4
70	Quantum signatures of charge flipping vortices in the Bose-Hubbard trimer. <i>Physical Review E</i> , 2016, 94, 052215.	2.1	4
71	Spectral analysis and synthesis of 1D dichotomous long-range correlated systems: From diffraction gratings to quantum wires. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 4733-4739.	2.6	3
72	Charge flipping vortices in the discrete nonlinear Schrödinger trimer and hexamer. <i>Physical Review E</i> , 2015, 91, 022910.	2.1	3

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73	Breather Mobility and the Peierls-Nabarro Potential: Brief Review and Recent Progress. Springer Series in Materials Science, 2015, , 147-178.	0.6	3
74	Localized modes in linear and nonlinear octagonal-diamond lattices with two flat bands. Physical Review A, 2020, 102, .	2.5	3
75	Discrete breathers for a discrete nonlinear Schrödinger ring coupled to a central site. Physical Review E, 2016, 93, 012219.	2.1	2
76	Nonlinear gap modes and compactons in a lattice model for spin-orbit coupled exciton-polaritons in zigzag chains. Journal of Physics Communications, 2019, 3, 015001.	1.2	1
77	Three Types of Spectra in One-Dimensional Systems with Random Correlated Binary Potential. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2007, 66, 353-362.	0.4	1
78	Quantitative analysis of tyrosinase and tyrosinase-related protein-2 mRNA from melanoma cells in blood by real-time polymerase chain reaction. Melanoma Research, 2000, 10, 213-22.	1.2	1
79	Amorphous Si $_{1-x}$ B $_x$ ALLOYS: Atomic Fine Structure and Optical Properties. Materials Research Society Symposia Proceedings, 1994, 336, 577.	0.1	0
80	Spectral Analysis and Syntesis of Long-Rang Correlated Systems: Antennas, Diffraction Gratings and Solids. , 2007, , .		0
81	Growth and Decay of Weakly Perturbed Discrete Breathers. , 2001, , 197-203.		0
82	Standing Waves in 1D Nonlinear Lattices. , 2001, , 205-211.		0
83	REGIONS OF STABILITY FOR AN EXTENDED DNLS EQUATION. , 2003, , .		0
84	White Noise and Nonlinear Damping in the Two-Dimensional Model of Energy Transfer in Molecular Systems. , 1997, , 208-216.		0