

# Mario Salerno

## List of Publications by Year in descending order

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182  
papers

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184  
docs citations

184  
times ranked

1793  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Interplay between Phase Separation and Gene-Enhancer Communication: A Theoretical Study. Biophysical Journal, 2020, 119, 873-883.	0.2	12
2	Switching pure states of the dissipative Heisenberg XXZ chain by local magnetic fields. Physical Review B, 2019, 100, .	1.1	0
3	Flat bands and dynamical localization of spin-orbit-coupled Bose-Einstein condensates. Physical Review A, 2018, 98, .	1.0	14
4	Normal mode oscillations of a nonlocal composite matter wave soliton. Physical Review E, 2018, 98, .	0.8	3
5	Dissipative solitons in the discrete Ginzburg-Landau equation with saturable nonlinearity. Physical Review E, 2018, 97, 052208.	0.8	7
6	Binary matter-wave compactons induced by inter-species scattering length modulations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 165301.	0.6	3
7	Tunable spin-orbit-coupled Bose-Einstein condensates in deep optical lattices. Physical Review A, 2016, 94, .	1.0	35
8	Compactons of Binary Bose Gases in Optical Lattices with Inter-species Scattering Length Management. , 2016, , .		0
9	Split and overlapped binary solitons in optical lattices. Physical Review A, 2015, 92, .	1.0	8
10	Multidimensional discrete compactons in nonlinear Schrödinger lattices with strong nonlinearity management. Physical Review A, 2015, 92, .	1.0	7
11	Nonreciprocal transmission of microwaves through a long Josephson junction. Physical Review B, 2015, 92, .	1.1	8
12	Symmetry breaking of localized discrete matter waves induced by spin-orbit coupling. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2252-2256.	0.9	20
13	Full decoherence induced by local fields in open spin chains with strong boundary couplings. New Journal of Physics, 2015, 17, 023066.	1.2	9
14	Compacton matter waves in binary Bose gases under strong nonlinear management. Physical Review A, 2014, 90, .	1.0	11
15	Domain walls and bubble droplets in immiscible binary Bose gases. Physical Review A, 2014, 90, .	1.0	16
16	Scattering of gap solitons by $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric defects. Physical Review A, 2013, 88, .	1.0	17
17	Superfluidity breakdown of periodic matter waves in quasi-one-dimensional annular traps via resonant scattering with moving defects. Physical Review A, 2013, 87, .	1.0	4
18	REDUCED DENSITY MATRIX AND ENTANGLEMENT ENTROPY OF PERMUTATIONALLY INVARIANT QUANTUM MANY-BODY SYSTEMS. , 2013, , 119-140.		0

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19	Optimal transport and von Neumann entropy in a Heisenberg chain out of equilibrium. Physical Review E, 2013, 87, 022108.	0.8	11
20	Anomalous currents in a driven $XZ$ chain with boundary twisting at weak coupling or weak driving. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P02040.	0.9	10
21	Three-dimensional solitons in cross-combined linear and nonlinear optical lattices. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 115302.	0.6	3
22	Behavior of magnetic currents in anisotropic Heisenberg spin chains out of equilibrium. Physical Review E, 2012, 85, 031137.	0.8	14
23	Displaced dynamics of binary mixtures in linear and nonlinear optical lattices. Physical Review A, 2012, 85, .	1.0	10
24	REDUCED DENSITY MATRIX AND ENTANGLEMENT ENTROPY OF PERMUTATIONALLY INVARIANT QUANTUM MANY-BODY SYSTEMS. International Journal of Modern Physics B, 2012, 26, 1243009.	1.0	2
25	Dynamics of matter-wave solitons in harmonic traps with flashing optical lattices. Physical Review A, 2012, 85, .	1.0	11
26	Superfluidity of Bose-Einstein condensates in toroidal traps with nonlinear lattices. Physical Review A, 2011, 84, .	1.0	20
27	Linear superpositions of gap solitons in periodic Kerr media. Optics Letters, 2011, 36, 2856.	1.7	4
28	Reduced Density Matrix of Permutational Invariant Many-body Systems. Acta Applicandae Mathematicae, 2011, 115, 75-89.	0.5	2
29	Rabi Josephson oscillations and self-trapped dynamics in atomic junctions with two bosonic species. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 035301.	0.6	25
30	Resonant scattering of matter-wave gap solitons by optical lattice defects. Physical Review A, 2011, 83, .	1.0	19
31	Hierarchy of boundary-driven phase transitions in multispecies particle systems. Physical Review E, 2011, 83, 011130.	0.8	4
32	Linear superpositions of nonlinear matter waves in optical lattices. Europhysics Letters, 2011, 93, 30003.	0.7	5
33	Quantum-tunneling dynamics of a spin-polarized Fermi gas in a double-well potential. Physical Review A, 2010, 81, .	1.0	12
34	Matter-wave two-dimensional solitons in crossed linear and nonlinear optical lattices. Physical Review A, 2010, 82, .	1.0	17
35	Matter waves and quantum tunneling engineered by time-dependent interactions. Physical Review A, 2010, 81, .	1.0	6
36	Compactons in Nonlinear Schrödinger Lattices with Strong Nonlinearity Management. Physical Review Letters, 2010, 105, 113901.	2.9	37

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37	Reduced-density-matrix spectrum and block entropy of permutationally invariant many-body systems. <i>Physical Review E</i> , 2010, 82, 011142.	0.8	12
38	Dissipative periodic waves, solitons, and breathers of the nonlinear Schrödinger equation with complex potentials. <i>Physical Review E</i> , 2010, 82, 056606.	0.8	85
39	Regular and chaotic transport of discrete solitons in asymmetric potentials. <i>Physical Review E</i> , 2010, 82, 016604.	0.8	6
40	Rabi oscillations of matter-wave solitons in optical lattices. <i>Physical Review A</i> , 2009, 80, .	1.0	20
41	Dynamical localization of gap-solitons by time periodic forces. <i>Europhysics Letters</i> , 2009, 87, 20004.	0.7	21
42	Long-lived matter wave Bloch oscillations and dynamical localization by time-dependent nonlinearity management. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 105302.	0.6	14
43	Dark soliton oscillations in Bose-Einstein condensates with multi-body interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 185303.	0.6	20
44	Solitons in the Tonks-Girardeau gas with dipolar interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 175302.	0.6	40
45	Atomic Josephson junction with two bosonic species. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 125301.	0.6	40
46	One-dimensional delocalizing transitions of matter waves in optical lattices. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1372-1387.	1.3	12
47	Matter-wave vortices and solitons in anisotropic optical lattices. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1439-1448.	1.3	37
48	Gap-Townes Solitons and Delocalizing Transitions of Multidimensional Bose-Einstein Condensates in Optical Lattices. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2009, , 345-357.	0.5	0
49	Asymmetric simple exclusion process with periodic boundary driving. <i>Physical Review E</i> , 2008, 78, 011122.	0.8	24
50	Scaling of the von Neumann entropy across a finite-temperature phase transition. <i>Europhysics Letters</i> , 2008, 84, 30007.	0.7	7
51	Matter sound waves in two-component Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 215302.	0.6	5
52	Localized modes of binary mixtures of Bose-Einstein condensates in nonlinear optical lattices. <i>Physical Review A</i> , 2008, 77, .	1.0	51
53	Matter waves in anharmonic periodic potentials. <i>Physical Review A</i> , 2008, 77, .	1.0	13
54	Long-Living Bloch Oscillations of Matter Waves in Periodic Potentials. <i>Physical Review Letters</i> , 2008, 101, 030405.	2.9	66

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55	Solitons in strongly driven discrete nonlinear Schrödinger-type models. <i>Physical Review E</i> , 2007, 75, 016615.	0.8	10
56	Mixed-symmetry localized modes and breathers in binary mixtures of Bose-Einstein condensates in optical lattices. <i>Physical Review A</i> , 2007, 76, .	1.0	22
57	Discrete soliton ratchets driven by biharmonic fields. <i>Physical Review E</i> , 2006, 73, 066621.	0.8	30
58	Adiabatic N-soliton interactions of Bose-Einstein condensates in external potentials. <i>Physical Review E</i> , 2006, 73, 046606.	0.8	27
59	Discrete nonlinear Schrödinger equations with arbitrarily high-order nonlinearities. <i>Physical Review E</i> , 2006, 74, 016607.	0.8	26
60	Multidimensional semi-gap solitons in a periodic potential. <i>European Physical Journal D</i> , 2006, 38, 367-374.	0.6	8
61	Matter-wave solitons in radially periodic potentials. <i>Physical Review E</i> , 2006, 74, 066615.	0.8	78
62	Wannier Functions for Quasiperiodic Finite-Gap Potentials. <i>Theoretical and Mathematical Physics</i> (Russian Federation), 2005, 144, 1081-1099.	0.3	4
63	Modeling Adiabatic N-Soliton Interactions and Perturbations. <i>Theoretical and Mathematical Physics</i> (Russian Federation), 2005, 144, 1138-1146.	0.3	10
64	Logarithmic divergence of the block entanglement entropy for the ferromagnetic Heisenberg model. <i>Physical Review A</i> , 2005, 71, .	1.0	67
65	Gap-Townes solitons and localized excitations in low-dimensional Bose-Einstein condensates in optical lattices. <i>Physical Review A</i> , 2005, 72, .	1.0	140
66	Entangling power of permutation-invariant quantum states. <i>Physical Review A</i> , 2005, 72, .	1.0	25
67	Landau-Zener tunneling of Bose-Einstein condensates in an optical lattice. <i>Physical Review A</i> , 2005, 72, .	1.0	31
68	Matter-wave quantum dots and antidots in ultracold atomic Bose-Fermi mixtures. <i>Physical Review A</i> , 2005, 72, .	1.0	38
69	Double parametric resonance for matter-wave solitons in a time-modulated trap. <i>Physical Review E</i> , 2005, 71, 036619.	0.8	35
70	Analytical approach to soliton ratchets in asymmetric potentials. <i>Physical Review E</i> , 2005, 72, 016610.	0.8	19
71	Wannier functions of elliptic one-gap potential. <i>Journal of Physics A</i> , 2004, 37, 9685-9704.	1.6	2
72	Delocalizing transition of multidimensional solitons in Bose-Einstein condensates. <i>Physical Review A</i> , 2004, 69, .	1.0	40

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73	Two-component Bose-Einstein condensates in periodic potential. <i>Physical Review E</i> , 2004, 70, 056617.	0.8	53
74	Hydrodynamic limit of multichain driven diffusive models. <i>Physical Review E</i> , 2004, 69, 046103.	0.8	24
75	Base-sequence-dependent sliding of proteins on DNA. <i>Physical Review E</i> , 2004, 70, 041901.	0.8	32
76	A Model of Sequence-Dependent Protein Diffusion Along DNA. <i>Journal of Biological Physics</i> , 2004, 30, 203-226.	0.7	33
77	Multidimensional solitons in a low-dimensional periodic potential. <i>Physical Review A</i> , 2004, 70, .	1.0	165
78	Ratchetlike Dynamics of Fluxons in Annular Josephson Junctions Driven by Biharmonic Microwave Fields. <i>Physical Review Letters</i> , 2004, 93, 087001.	2.9	118
79	Quantum Signatures of Breather-Breather Interactions. <i>Physical Review Letters</i> , 2004, 93, 025504.	2.9	51
80	Quantum Bound States and Matter Waves Delocalizations. , 2004, , 237-250.		0
81	Two-Component Bose-Einstein Condensates in Optical Lattices. , 2004, , 269-283.		0
82	Multidimensional Solitons and Vortices in Periodic Potentials. , 2004, , 61-80.		2
83	Large amplitude spatial fluctuations in the boundary region of the Bose-Einstein condensate in the Gross-Pitaevskii regime. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 325, 455-476.	1.2	0
84	Adiabatic compression of soliton matter waves. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 2851-2859.	0.6	53
85	Stable two-dimensional dispersion-managed soliton. <i>Physical Review E</i> , 2003, 68, 066605.	0.8	40
86	AC Driven Directed Motion of Solitary Waves. <i>International Journal of Modern Physics B</i> , 2003, 17, 4428-4433.	1.0	4
87	Multidimensional solitons in periodic potentials. <i>Europhysics Letters</i> , 2003, 63, 642-648.	0.7	262
88	Soliton ratchetlike dynamics by ac forces with harmonic mixing. <i>Physical Review E</i> , 2002, 65, 056603.	0.8	73
89	Matter solitons in Bose-Einstein condensates with optical lattices. <i>Europhysics Letters</i> , 2002, 58, 7-13.	0.7	95
90	Multidimensional Schrödinger equations with Abelian potentials. <i>Journal of Mathematical Physics</i> , 2002, 43, 2858-2881.	0.5	8

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91	Regular spatial structures in arrays of Bose-Einstein condensates induced by modulational instability. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 5105-5119.	0.6	151
92	Wannier functions analysis of the nonlinear Schrödinger equation with a periodic potential. Physical Review E, 2002, 66, 046608.	0.8	209
93	Soliton ratchets. Physical Review E, 2002, 65, 025602.	0.8	69
94	Modulational instability in Bose-Einstein condensates in optical lattices. Physical Review A, 2002, 65, .	1.0	292
95	Phase locking of Josephson flux-flow oscillators in non-uniform microwave fields. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 285, 350-354.	0.9	4
96	Exact energy bands and Fermi surfaces of separable Abelian potentials. Journal of Physics A, 2001, 34, 943-959.	1.6	6
97	Integrable systems on a sphere as models for quantum dots. Journal of Physics A, 2001, 34, 2311-2317.	1.6	5
98	Stabilization of ratchet dynamics by weak periodic signals. Physical Review E, 2001, 63, 066212.	0.8	32
99	Nonlinear excitations in arrays of Bose-Einstein condensates. Physical Review A, 2001, 64, .	1.0	247
100	Spectral Linewidths of Josephson Oscillators. Physical Review Letters, 2001, 86, 5397-5400.	2.9	18
101	Resonant activation in overdamped systems with noise subjected to strong periodic driving. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 273, 162-166.	0.9	42
102	Exact zero energy bound states of a model potential for quantum dots. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 276, 240-244.	0.9	6
103	Spectral properties of a model potential for quantum dots with smooth boundaries. Physical Review B, 2000, 62, 4230-4233.	1.1	12
104	Josephson flux-flow oscillators in nonuniform microwave fields. Physical Review B, 2000, 61, 99-102.	1.1	9
105	Quantum shock waves in the HeisenbergXYmodel. Physical Review B, 2000, 62, 352-356.	1.1	4
106	Adiabatic approximation and parametric stochastic resonance in a bistable system with periodically driven barrier. Physical Review E, 2000, 61, 1206-1210.	0.8	22
107	Phase locking effect and current reversals in deterministic underdamped ratchets. Physical Review E, 2000, 62, 1988-1994.	0.8	80
108	Shock wave dynamics in a discrete nonlinear Schrödinger equation with internal losses. Physical Review E, 2000, 62, 8651-8656.	0.8	13

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109	Quantum Bäcklund transformation for the integrable DST model. <i>Journal of Physics A</i> , 2000, 33, 171-189.	1.6	62
110	Phase locking and flux-flow resonances in Josephson oscillators driven by homogeneous microwave fields. <i>Physical Review B</i> , 1999, 59, 14653-14658.	1.1	31
111	On the link between $SO(4)$ invariance and Bethe states of the 1D Hubbard model. <i>Physica D: Nonlinear Phenomena</i> , 1998, 119, 200-204.	1.3	1
112	Fiske modes and Eck steps in long Josephson junctions: Theory and experiments. <i>Physical Review B</i> , 1998, 58, 12377-12384.	1.1	89
113	Shock waves in one-dimensional Heisenberg ferromagnets. <i>Physical Review B</i> , 1998, 58, 14892-14895.	1.1	7
114	Dark and bright shock waves on oscillating backgrounds in a discrete nonlinear Schrödinger equation. <i>Physical Review E</i> , 1997, 56, 3611-3618.	0.8	16
115	Small-amplitude excitations in a deformable discrete nonlinear Schrödinger equation. <i>Physical Review E</i> , 1997, 55, 4706-4712.	0.8	15
116	Shock waves in a chain of two-level atoms with exchange and dipole-dipole interactions. <i>Physical Review E</i> , 1997, 56, 7240-7245.	0.8	14
117	On regular Bethe states and $SO(4)$ invariance of the 1D Hubbard model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 236, 206-210.	0.9	0
118	Phase locking of fluxons in spatially inhomogeneous Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 228, 250-254.	0.9	5
119	Ferromagnetic ground states of the Hubbard model on a complete graph. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1996, 101, 619-621.	1.1	8
120	$SO(4)$ -invariant basis functions for strongly correlated Fermi systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 217, 269-274.	0.9	3
121	Interaction of a soliton with point impurities in an inhomogeneous, discrete nonlinear Schrödinger system. <i>Physical Review E</i> , 1996, 53, 6476-6485.	0.8	30
122	Exact analytical solutions for the Hubbard model with unconstrained hopping. <i>Physica Scripta</i> , 1996, 54, 32-35.	1.2	4
123	Lax representation for two-particle dynamics splitting on two tori. <i>Journal of Physics A</i> , 1996, 29, L425-L431.	1.6	11
124	The Hubbard model on a complete graph: exact analytical results. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1995, 99, 469-471.	1.1	14
125	The Hubbard model on a complete graph: exact analytical results. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1995, 99, 469-471.	1.1	0
126	Electric-Field-Induced Nonlinear Bloch Oscillations and Dynamical Localization. <i>Physical Review Letters</i> , 1995, 74, 1186-1189.	2.9	81



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127	Relaxation towards phase-locked dynamics in long Josephson junctions. <i>Physical Review B</i> , 1995, 51, 15613-15616.	1.1	0
128	Modulational instabilities in the discrete deformable nonlinear Schrödinger equation. <i>Physical Review E</i> , 1994, 49, 3543-3546.	0.8	67
129	General method to solve Hamiltonians with infinite-range interactions. <i>Physical Review A</i> , 1994, 50, 553-556.	1.0	7
130	Canonical transformation between integrable Hénon-Heiles systems. <i>Physical Review E</i> , 1994, 49, 5897-5899.	0.8	15
131	Bose-Einstein condensation in a system of q-bosons. <i>Physical Review E</i> , 1994, 50, 4528-4530.	0.8	20
132	Stabilization of chaotic phase locked dynamics in long Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 190, 177-181.	0.9	10
133	DNA promoters and nonlinear dynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 193, 263-266.	0.9	44
134	Suppression of chaos in the perturbed sine-Gordon system by weak periodic signals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 178, 81-84.	0.9	28
135	On the quantum inverse scattering method for the DST dimer. <i>Physica D: Nonlinear Phenomena</i> , 1993, 68, 138-152.	1.3	25
136	The Chaoticity Degree of the Campi Flegrei Seismicity, Southern Italy. <i>Geophysical Journal International</i> , 1993, 114, 392-398.	1.0	2
137	Solitons on oscillating and rotating backgrounds. <i>Physical Review Letters</i> , 1993, 70, 3181-3185.	2.9	12
138	Effect of thermal noise on the phase locking of a Josephson fluxon oscillator. <i>Physical Review B</i> , 1992, 46, 308-316.	1.1	4
139	Quantum deformations of the discrete nonlinear Schrödinger equation. <i>Physical Review A</i> , 1992, 46, 6856-6859.	1.0	107
140	A new method to solve the quantum Ablowitz-Ladik system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 162, 381-384.	0.9	24
141	Dynamical properties of DNA promoters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 167, 49-53.	0.9	31
142	There's more than one way to skin Schrödinger's cat. <i>Physica D: Nonlinear Phenomena</i> , 1992, 59, 1-24.	1.3	43
143	Alternate quantizations of the discrete self-trapping dimer. <i>Physica Scripta</i> , 1991, 43, 229-235.	1.2	39
144	Quantum theories for two discrete nonlinear Schrodinger equations. <i>Nonlinearity</i> , 1991, 4, 853-860.	0.6	6

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145	Discrete model for DNA-promoter dynamics. <i>Physical Review A</i> , 1991, 44, 5292-5297.	1.0	113
146	Long Josephson junctions phase locked to microwaves by various couplings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 156, 293-297.	0.9	7
147	Lyapunov exponent analysis of fluxon oscillations in long Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 160, 419-423.	0.9	1
148	On the calculation of the energy spectrum of quantum integrable systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 155, 121-125.	0.9	2
149	On a procedure to evaluate unstable periodic orbits. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 153, 173-176.	0.9	2
150	Quantum chaology in the discrete self-trapping equation in the presence of Arnold diffusion. <i>Physica Scripta</i> , 1991, 43, 353-355.	1.2	7
151	Suppression of phase-locking chaos in long Josephson junctions by biharmonic microwave fields. <i>Physical Review B</i> , 1991, 44, 2720-2726.	1.1	33
152	Phase-locking chaos in long Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 144, 453-458.	0.9	20
153	Semiclassical analysis of the eigenstate Wigner functions for the discrete self-trapping equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 146, 313-318.	0.9	0
154	Classical and quantum analysis of chaos in the discrete self-trapping equation. <i>Physical Review B</i> , 1990, 42, 522-526.	1.1	38
155	Microwave phase locking of Josephson-junction fluxon oscillators. <i>Physical Review B</i> , 1990, 41, 6641-6654.	1.1	66
156	Eigenvalue Statistics and Eigenstate Wigner Functions for the Discrete Self-Trapping Equation. <i>NATO ASI Series Series B: Physics</i> , 1990, , 511-518.	0.2	0
157	Internal oscillation frequencies and anharmonic effects for the double sine-Gordon kink. <i>Physical Review B</i> , 1989, 39, 4500-4503.	1.1	5
158	Global coordinates for the breather-kink (antikink) sine-Gordon phase space: An explicit separatrix as a possible source of chaos. <i>Physical Review A</i> , 1989, 40, 6463-6469.	1.0	11
159	Avoided-crossing and nearest-neighbour level spacings for the quantum DST equation. <i>Nonlinearity</i> , 1989, 2, 477-487.	0.6	32
160	Reduced sine-Gordon breather-(anti)kink dynamics and the double sine-Gordon system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 134, 421-423.	0.9	4
161	A generalized discrete self-trapping equation as a model for quantum chaology. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 142, 479-482.	0.9	7
162	A simple map describing phase-locking of fluxon oscillations in long Josephson tunnel junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 137, 75-78.	0.9	42

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163	Numerical evidence of a sharp order window in a Hamiltonian system. <i>Physica D: Nonlinear Phenomena</i> , 1988, 29, 421-426.	1.3	22
164	Normal modes in a solitary wave solution to a double sine-Gordon equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 128, 424-426.	0.9	4
165	Thermal sine-Gordon system in the presence of different types of dissipation. <i>Physical Review B</i> , 1988, 38, 593-596.	1.1	9
166	Parametric adiabatic perturbations on the sine-Gordon breather solution. <i>Physica D: Nonlinear Phenomena</i> , 1987, 26, 396-402.	1.3	5
167	Lyapunov exponents for the $n = 3$ discrete self-trapping equation. <i>Physica D: Nonlinear Phenomena</i> , 1987, 26, 411-414.	1.3	25
168	On the phase manifold geometry of the two-dimensional Burgers equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 121, 15-18.	0.9	9
169	“Horseshoe chaos” in the space-independent double sine-Gordon system. <i>Wave Motion</i> , 1986, 8, 581-594.	1.0	5
170	A geometrical approach to the integrability of soliton equations. <i>Letters in Mathematical Physics</i> , 1985, 9, 85-91.	0.5	14
171	Non-dissipative perturbations in the sine-gordon system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1985, 108, 241-244.	0.9	16
172	A mechanical analog for the double sine-Gordon equation. <i>Physica D: Nonlinear Phenomena</i> , 1985, 17, 227-234.	1.3	13
173	Phonons and solitons in the “thermal” sine-Gordon system. <i>Physical Review B</i> , 1984, 30, 2635-2639.	1.1	28
174	A geometrical approach to discretization of nonlinear integrable evolution equations: I Burger's hierarchy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1984, 101, 75-80.	0.9	7
175	A new characterization of completely integrable systems. <i>Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods</i> , 1984, 83, 97-112.	0.2	54
176	Phase manifold geometry of burgers hierarchy. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica</i> , 1983, 37, 105-110.	0.4	13
177	Fluxon reflection at loaded terminations of long Josephson junctions. <i>Physica D: Nonlinear Phenomena</i> , 1983, 8, 267-272.	1.3	0
178	Perturbation theories for sine-Gordon soliton dynamics. <i>Wave Motion</i> , 1983, 5, 49-58.	1.0	18
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