M Lakshmanan

List of Publications by Year
in descending order

425	12,737	28274 55	39675 94
papers	citations	h-index	g-index

434	434	434	3533
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Continuum spin system as an exactly solvable dynamical system. Physics Letters, Section A: General, Atomic and Solid State Physics, 1977, 61, 53-54.	2.1	421
2	Nonlinear Dynamics. Advanced Texts in Physics, 2003, , .	0.5	292
3	Inelastic collision and switching of coupled bright solitons in optical fibers. Physical Review E, 1997, 56, 2213-2216.	2.1	289
4	Exact Soliton Solutions, Shape Changing Collisions, and Partially Coherent Solitons in Coupled Nonlinear SchrÃ¶dinger Equations. Physical Review Letters, 2001, 86, 5043-5046.	7.8	276
5	Bright and dark soliton solutions to coupled nonlinear Schrodinger equations. Journal of Physics A, 1995, 28, 2683-2692.	1.6	226
6	Effect of discreteness on the continuum limit of the Heisenberg spin chain. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 133, 483-488.	2.1	225
7	On the integrability aspects of the oneâ€dimensional classical continuum isotropic biquadratic Heisenberg spin chain. Journal of Mathematical Physics, 1992, 33, 1807-1816.	1.1	205
8	Secure communication using a compound signal from generalized synchronizable chaotic systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 241, 303-310.	2.1	199
9	On the dynamics of a continuum spin system. Physica A: Statistical Mechanics and Its Applications, 1976, 84, 577-590.	2.6	198
10	The fascinating world of the Landauâ€“Lifshitzâ€“Gilbert equation: an overview. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 1280-1300.	3.4	184
11	Dynamics of Nonlinear Time-Delay Systems. Springer Series in Synergetics, 2011, , .	0.4	183
12	On a unique nonlinear oscillator. Quarterly of Applied Mathematics, 1974, 32, 215-218.	0.7	178
13	HYPERCHAOS IN A MODIFIED CANONICAL CHUA'S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 221-243.	1.7	169
14	Exact soliton solutions of coupled nonlinear SchrÃ¶dinger equations: Shape-changing collisions, logic gates, and partially coherent solitons. Physical Review E, 2003, 67, 046617.	2.1	163
15	Soliton collisions with shape change by intensity redistribution in mixed coupled nonlinear SchrÃ¶dinger equations. Physical Review E, 2006, 73, 026604.	2.1	154
16	Chimera states in bursting neurons. Physical Review E, 2016, 93, 012205.	2.1	153
17	Bright-dark solitons and their collisions in mixed<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>-coupled nonlinear SchrÃ¶dinger equations. Physical Review A, 2008, 77, .	2.5	151
18	Transmission of signals by synchronization in a chaotic Van der Polâ€“Duffing oscillator. Physical Review E, 1993, 48, R1624-R1626.	2.1	146

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19	Dromion like structures in the (2+1)-dimensional breaking soliton equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 197, 7-12.	2.1	141
20	Observation and characterization of chimera states in coupled dynamical systems with nonlocal coupling. Physical Review E, 2014, 89, 052914.	2.1	140
21	Coupled nonlinear SchrÃ¶dinger equations with cubic-quintic nonlinearity: Integrability and soliton interaction in non-Kerr media. Physical Review E, 1999, 60, 3314-3323.	2.1	136
22	Singularity analysis and localized coherent structures in (2+1)â€dimensional generalized Kortewegâ€“de Vries equations. Journal of Mathematical Physics, 1994, 35, 4746-4756.	1.1	130
23	Lie transformations, nonlinear evolution equations, and PainlevÃ© forms. Journal of Mathematical Physics, 1983, 24, 795-806.	1.1	126
24	PainlevÃ© analysis, Lie symmetries, and integrability of coupled nonlinear oscillators of polynomial type. Physics Reports, 1993, 224, 1-93.	25.6	125
25	The simplest dissipative nonautonomous chaotic circuit. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1994, 41, 462-463.	0.1	118
26	Painleve analysis and integrability of coupled non-linear Schrodinger equations. Journal of Physics A, 1986, 19, 1783-1791.	1.6	103
27	On the complete integrability and linearization of certain second-order nonlinear ordinary differential equations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2005, 461, 2451-2477.	2.1	98
28	Akhmediev breathers, Ma solitons, and general breathers from rogue waves: A case study in the Manakov system. Physical Review E, 2013, 88, 022918.	2.1	96
29	Unusual LiÃ©nard-type nonlinear oscillator. Physical Review E, 2005, 72, 066203.	2.1	94
30	Landau-Lifshitz Equation of Ferromagnetism: Exact Treatment of the Gilbert Damping. Physical Review Letters, 1984, 53, 2497-2499.	7.8	92
31	Drive-response scenario of chaos synchronization in identical nonlinear systems. Physical Review E, 1994, 49, 4882-4885.	2.1	90
32	Complete Integrability in a Quantum Description of Chaotic Systems. Physical Review Letters, 1986, 57, 1661-1664.	7.8	87
33	Geometry of generalised nonlinear SchrÃ¶dinger and Heisenberg ferromagnetic spin equations with linearly x-dependent coefficients. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 80, 287-292.	2.1	85
34	A simple and unified approach to identify integrable nonlinear oscillators and systems. Journal of Mathematical Physics, 2006, 47, 023508.	1.1	76
35	Exact soliton solutions to coupled nonlinear SchrÃ¶dinger equations with higher-order effects. Physical Review E, 1996, 54, 2949-2955.	2.1	74
36	On the integrability of the inhomogeneous spherically symmetric Heisenberg ferromagnet in arbitrary dimensions. Journal of Mathematical Physics, 1994, 35, 6498-6510.	1.1	73

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37	Motion of curves and surfaces and nonlinear evolution equations in (2+1) dimensions. Journal of Mathematical Physics, 1998, 39, 3765-3771.	1.1	71
38	On the dynamics of the radially symmetric Heisenberg ferromagnetic spin system. Journal of Mathematical Physics, 1991, 32, 2923-2928.	1.1	68
39	Rigid body motions, space curves, prolongation structures, fiber bundles, and solitons. Journal of Mathematical Physics, 1979, 20, 1667-1672.	1.1	67
40	Globally clustered chimera states in delay-coupled populations. Physical Review E, 2009, 79, 055203.	2.1	66
41	Coherently coupled bright optical solitons and their collisions. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 434018.	2.1	66
42	BIFURCATION AND CHAOS IN THE SIMPLEST DISSIPATIVE NON-AUTONOMOUS CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 1511-1524.	1.7	65
43	Mechanism for intensity-induced chimera states in globally coupled oscillators. Physical Review E, 2014, 90, 062913.	2.1	65
44	Algorithms for controlling chaotic motion: application for the BVP oscillator. Physica D: Nonlinear Phenomena, 1993, 67, 282-300.	2.8	63
45	Interaction of darkâ€“bright solitons in two-component Boseâ€“Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 145307.	1.5	62
46	Nondegenerate Solitons in Manakov System. Physical Review Letters, 2019, 122, 043901.	7.8	62
47	CONTROLLING AND SYNCHRONIZATION OF CHAOS IN THE SIMPLEST DISSIPATIVE NON-AUTONOMOUS CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1995, 05, 563-571.	1.7	61
48	On the simplest (2+1) dimensional integrable spin systems and their equivalent nonlinear SchrÃ¶dinger equations. Journal of Mathematical Physics, 1998, 39, 2122-2140.	1.1	61
49	Chimera and globally clustered chimera: Impact of time delay. Physical Review E, 2010, 81, 046203.	2.1	61
50	Integrability and singularity structure of coupled nonlinear SchrÃ¶dinger equations. Chaos, Solitons and Fractals, 1995, 5, 2315-2327.	5.1	60
51	Intermittency transitions to strange nonchaotic attractors in a quasiperiodically driven Duffing oscillator. Physical Review E, 2000, 61, 3641-3651.	2.1	60
52	Chimera states in two-dimensional networks of locally coupled oscillators. Physical Review E, 2018, 97, 022201.	2.1	58
53	Bifurcation and chaos in the double-well Duffingâ€“van der Pol oscillator: Numerical and analytical studies. Physical Review E, 1997, 56, 6321-6330.	2.1	57
54	Experimental realization of strange nonchaotic attractors in a quasiperiodically forced electronic circuit. Physical Review E, 2006, 74, 036205.	2.1	57

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55	A (2 + 1)-dimensional integrable spin model: Geometrical and gauge equivalent counterpart, solitons and localized coherent structures. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 233, 391-396.	2.1	56
56	Birth of strange nonchaotic attractors through type III intermittency. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 259, 246-253.	2.1	54
57	Phase synchronization in time-delay systems. Physical Review E, 2006, 74, 035205.	2.1	54
58	Multisoliton solutions and energy sharing collisions in coupled nonlinear SchrÃ¶dinger equations with focusing, defocusing and mixed type nonlinearities. European Physical Journal: Special Topics, 2009, 173, 57-80.	2.6	54
59	Control of chaos by nonfeedback methods in a simple electronic circuit system and the FitzHugh-Nagumo equation. Chaos, Solitons and Fractals, 1997, 8, 1545-1558.	5.1	53
60	NONSMOOTH BIFURCATIONS, TRANSIENT HYPERCHAOS AND HYPERCHAOTIC BEATS IN A MEMRISTIVE MURALIâ€“LAKSHMANANâ€“CHUA CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350098.	1.7	53
61	Bright and dark solitons in a quasi-1D Boseâ€“Einstein condensates modelled by 1D Grossâ€“Pitaevskii equation with time-dependent parameters. Physica D: Nonlinear Phenomena, 2010, 239, 366-386.	2.8	52
62	Impact of symmetry breaking in networks of globally coupled oscillators. Physical Review E, 2015, 91, 052915.	2.1	52
63	Integrable (2 + 1)-Dimensional Spin Models with Self-Consistent Potentials. Symmetry, 2015, 7, 1352-1375.	2.2	52
64	A quantum-mechanically solvable nonpolynomial Lagrangian with velocity-dependent interaction. Il Nuovo Cimento A, 1975, 26, 299-316.	0.2	51
65	Period-doubling bifurcations, chaos, phase-locking and devil's staircase in a Bonhoeffer-van der Pol oscillator. Physica D: Nonlinear Phenomena, 1988, 32, 146-152.	2.8	51
66	Transition from anticipatory to lag synchronization via complete synchronization in time-delay systems. Physical Review E, 2005, 71, 016211.	2.1	51
67	Classification of Lie point symmetries for quadratic LiÃ©nard type equation $ddot{x}+f(x)dot{x}^2+g(x)=0$ìˆ+f(x)ì‡2+g(x)=0. Journal of Mathematical Physics, 2013, 54, .	1.1	51
68	Coupled quartic anharmonic oscillators, PainlevÃ© analysis, and integrability. Physical Review A, 1985, 31, 861-876.	2.5	49
69	CONTROLLING OF CHAOS IN BONHOEFFER- VAN DER POL OSCILLATOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1992, 02, 201-204.	1.7	49
70	Singularity structure analysis and bilinear form of a (2+1) dimensional non-linear Schrodinger (NLS) equation. Inverse Problems, 1994, 10, L29-L33.	2.0	49
71	Occurrence of multiple period-doubling bifurcation route to chaos in periodically pulsed chaotic dynamical systems. Chaos, Solitons and Fractals, 2003, 18, 891-898.	5.1	48
72	Applicability of 0-1 test for strange nonchaotic attractors. Chaos, 2013, 23, 023123.	2.5	48

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73	Manipulating matter rogue waves and breathers in Bose-Einstein condensates. Physical Review E, 2014, 90, 062905.	2.1	48
74	Quantum dynamics of a solvable nonlinear chiral model. Journal of Physics A, 1975, 8, 1658-1669.	1.6	47
75	Singularity structure analysis of the continuum Heisenberg spin chain with anisotropy and transverse field: Nonintegrability and chaos. Journal of Mathematical Physics, 1992, 33, 771-776.	1.1	46
76	On the general solution for the modified Emden-type equation. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 4717-4727.	2.1	46
77	On the Lagrangian and Hamiltonian description of the damped linear harmonic oscillator. Journal of Mathematical Physics, 2007, 48, 032701.	1.1	46
78	Nonlinear dynamics of damped and driven velocity-dependent systems. Physical Review E, 1997, 55, 5134-5146.	2.1	45
79	CLASSIFICATION OF BIFURCATIONS AND ROUTES TO CHAOS IN A VARIANT OF MURALIâ€“LAKSHMANANâ€“CHUA CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 783-813.	1.7	45
80	Transition from phase to generalized synchronization in time-delay systems. Chaos, 2008, 18, 023118.	2.5	45
81	Localized coherent structures and integrability in a generalized (2 + 1)-dimensional nonlinear SchrÃ¶dinger equation. Chaos, Solitons and Fractals, 1997, 8, 17-25.	5.1	44
82	New aspects of integrability of force-free Duffingâ€“van der Pol oscillator and related nonlinear systems. Journal of Physics A, 2004, 37, 4527-4534.	1.6	44
83	Integrable Nonlinear Wave Equations and Possible Connections to Tsunami Dynamics. , 2007, , 31-49.		43
84	On the evolution of higher dimensional Heisenberg continuum spin systems. Physica A: Statistical Mechanics and Its Applications, 1981, 107, 533-552.	2.6	41
85	Different routes to chaos via strange nonchaotic attractors in a quasiperiodically forced system. Physical Review E, 1998, 58, 3008-3016.	2.1	41
86	Dark solitons, breathers, and rogue wave solutions of the coupled generalized nonlinear SchrÃ¶dinger equations. Physical Review E, 2014, 89, 062901.	2.1	41
87	Equivalent Forms of a Generalized Hirota's Equation with Linear Inhomogeneities. Journal of the Physical Society of Japan, 1983, 52, 4031-4033.	1.6	40
88	Interruption of torus doubling bifurcation and genesis of strange nonchaotic attractors in a quasiperiodically forced map: Mechanisms and their characterizations. Physical Review E, 2001, 63, 026219.	2.1	40
89	Chimera patterns in three-dimensional locally coupled systems. Physical Review E, 2019, 99, 022204.	2.1	40
90	Effect of sinusoidal excitation on the Chua's circuit. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1992, 39, 264-270.	0.1	39

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91	A new class of induced localized coherent structures in the (2 + 1)-dimensional nonlinear SchrÃ¶dinger equation. Journal of Physics A, 1997, 30, 3229-3233.	1.6	39
92	Multicomponent long-waveâ€“short-wave resonance interaction system: Bright solitons, energy-sharing collisions, and resonant solitons. Physical Review E, 2014, 90, 052912.	2.1	39
93	Synchronization transitions in coupled time-delay electronic circuits with a threshold nonlinearity. Chaos, 2011, 21, 023119.	2.5	38
94	Kadomstev-Petviashvile and two-dimensional sine-Gordon equations: reduction to Painleve transcendents. Journal of Physics A, 1979, 12, L249-L252.	1.6	37
95	Geometrical and gauge equivalence of the generalized Hirota, Heisenberg and Wkis equations with linear inhomogeneities. Physica A: Statistical Mechanics and Its Applications, 1985, 132, 117-142.	2.6	37
96	Lie Symmetries, Kac-Moody-Virasoro Algebras and Integrability of Certain (2+1)-Dimensional Nonlinear Evolution Equations. Journal of Nonlinear Mathematical Physics, 1998, 5, 190.	1.3	37
97	Dynamics of atomic hydrogen in a generalized van der Waals potential. Physical Review A, 1990, 42, 3940-3947.	2.5	36
98	The (2 + 1)-dimensional sine - Gordon equation; integrability and localized solutions. Journal of Physics A, 1996, 29, 1551-1562.	1.6	36
99	Nondegenerate solitons and their collisions in Manakov systems. Physical Review E, 2020, 102, 042212.	2.1	36
100	Lieâ€“BÃcklund symmetries of certain nonlinear evolution equations under perturbation around their solutions. Journal of Mathematical Physics, 1985, 26, 1189-1200.	1.1	35
101	Bifurcation and Controlling of Chaotic Delayed Cellular Neural Networks. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 2481-2492.	1.7	35
102	Bubbling route to strange nonchaotic attractor in a nonlinear series<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>L</mml:mi><mml:mi>C</mml:mi><mml:mi>R</mml:mi></mml:mrow></mml:math>circuit with a nonsinusoidal force. Physical Review E, 2008, 78, 066211.	2.1	35
103	Distinct collective states due to trade-off between attractive and repulsive couplings. Physical Review E, 2018, 97, 032207.	2.1	35
104	Bright and dark optical solitons in coupled higher-order nonlinear Schrodinger equations through singularity structure analysis. Journal of Physics A, 1995, 28, 7299-7314.	1.6	34
105	A group theoretical identification of integrable equations in the LiÃ©nard-type equation xÌˆ+f(x)xÌ‡+g(x)=. II. Equations having maximal Lie point symmetries. Journal of Mathematical Physics, 2009, 50, .	1.1	34
106	Prediction of horseshoe chaos in BVP and DVP oscillators. Chaos, Solitons and Fractals, 1992, 2, 271-280.	5.1	32
107	RICH VARIETY OF BIFURCATIONS AND CHAOS IN A VARIANT OF MURALIâ€“LAKSHMANANâ€“CHUA CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 1781-1785.	1.7	32
108	Shape-changing collisions of coupled bright solitons in birefringent optical fibers. Reports on Mathematical Physics, 2000, 46, 143-156.	0.8	32

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109	A unification in the theory of linearization of second-order nonlinear ordinary differential equations. Journal of Physics A, 2006, 39, L69-L76.	1.6	32
110	Exact quantization of a PT-symmetric (reversible) LiÃ©nard-type nonlinear oscillator. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 382002.	2.1	32
111	Generating finite dimensional integrable nonlinear dynamical systems. European Physical Journal: Special Topics, 2013, 222, 665-688.	2.6	32
112	Perturbation of solitons in the classical continuum isotropic Heisenberg spin system. Physica A: Statistical Mechanics and Its Applications, 1983, 120, 125-152.	2.6	31
113	Chaotic dynamics of the driven Chua's circuit. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1993, 40, 836-840.	0.1	31
114	Synchronization through Compound Chaotic Signal in Chua's Circuit and Muraliâ€“Lakshmananâ€“Chua Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1997, 07, 415-421.	1.7	31
115	A nonlocal connection between certain linear and nonlinear ordinary differential equations/oscillators. Journal of Physics A, 2006, 39, 9743-9754.	1.6	31
116	OBSERVATION OF CHAOTIC BEATS IN A DRIVEN MEMRISTIVE CHUA'S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 737-757.	1.7	31
117	Matter wave switching in Boseâ€“Einstein condensates via intensity redistribution soliton interactions. Journal of Mathematical Physics, 2011, 52, .	1.1	30
118	Manipulating localized matter waves in multicomponent Bose-Einstein condensates. Physical Review E, 2016, 93, 032212.	2.1	29
119	Comment on "Dynamical Symmetries of the Perturbed Hydrogen Atom: The van der Waals Interaction". Physical Review Letters, 1989, 62, 232-232.	7.8	28
120	Delay time modulation induced oscillating synchronization and intermittent anticipatory/lag and complete synchronizations in time-delay nonlinear dynamical systems. Chaos, 2007, 17, 013112.	2.5	28
121	Higher dimensional bright solitons and their collisions in a multicomponent long waveâ€“short wave system. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 115103.	2.1	28
122	BIFURCATION AND CHAOS OF THE SINUSOIDALLY-DRIVEN CHUA'S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1991, 01, 369-384.	1.7	27
123	Nonstandard conserved Hamiltonian structures in dissipative/damped systems: Nonlinear generalizations of damped harmonic oscillator. Journal of Mathematical Physics, 2009, 50, 052901.	1.1	27
124	On the complete integrability of a nonlinear oscillator from group theoretical perspective. Journal of Mathematical Physics, 2012, 53, .	1.1	27
125	Nonstandard bilinearization of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-invariant nonlocal nonlinear SchrÃ¶dinger equation: Bright soliton solutions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2380-2385.	2.1	27
126	Periodic and localized solutions of the long waveâ€“short wave resonance interaction equation. Journal of Physics A, 2005, 38, 9649-9663.	1.6	26

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127	Adaptive coupling induced multi-stable states in complex networks. Physica D: Nonlinear Phenomena, 2014, 267, 36-48.	2.8	26
128	Energy-sharing collisions and the dynamics of degenerate solitons in the nonlocal Manakov system. Nonlinear Dynamics, 2019, 95, 1767-1780.	5.2	26
129	Tailoring PT-symmetric soliton switch. Optics Letters, 2019, 44, 663.	3.3	26
130	Period doubling route to chaos for a BVP oscillator with periodic external force. Journal of Theoretical Biology, 1988, 133, 473-477.	1.7	25
131	SYNCHRONIZING CHAOS IN DRIVEN CHUA'S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1993, 03, 1057-1066.	1.7	25
132	Periodic energy switching of bright solitons in mixed coupled nonlinear SchrÃ¶dinger equations with linear self-coupling and cross-coupling terms. Physical Review A, 2007, 76, .	2.5	25
133	On the geometrical interpretation of solitons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1978, 64, 354-356.	2.1	24
134	Exponentially localized solutions of Mel'nikov equation. Chaos, Solitons and Fractals, 2004, 22, 705-712.	5.1	24
135	The collision of multimode dromions and a firewall in the two-component long-waveâ€“short-wave resonance interaction equation. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 102002.	2.1	24
136	Integrable motion of curves in self-consistent potentials: Relation to spin systems and soliton equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2118-2123.	2.1	24
137	Degenerate soliton solutions and their dynamics in the nonlocal Manakov system: I symmetry preserving and symmetry breaking solutions. Nonlinear Dynamics, 2019, 95, 343-360.	5.2	24
138	Quantum chaos of the hydrogen atom in a generalized van der Waals potential. Physical Review A, 1993, 48, 964-976.	2.5	23
139	Exotic coherent structures in the (2+1) dimensional long dispersive wave equation. Journal of Mathematical Physics, 1997, 38, 292-299.	1.1	23
140	Shape changing collisions of optical solitons, universal logic gates and partially coherent solitons in coupled nonlinear SchrÃ¶dinger equations. Pramana - Journal of Physics, 2001, 57, 885-916.	1.8	23
141	Extended Prelle-Singer Method and Integrability/Solvability of a Class of Nonlinear nth Order Ordinary Differential Equations. Journal of Nonlinear Mathematical Physics, 2005, 12, 184.	1.3	23
142	Mixed solitons in a (2+1)-dimensional multicomponent long-waveâ€“short-wave system. Physical Review E, 2014, 90, 042901.	2.1	23
143	Complete integrability of the Kortweg-de Vries equation under perturbation around its solution: Lie-Backlund symmetry approach. Journal of Physics A, 1983, 16, 3773-3782.	1.6	22
144	Invariance and integrability: Henon-Heiles and two coupled quartic anharmonic oscillator systems. Journal of Physics A, 1986, 19, L949-L954.	1.6	22

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145	BIFURCATIONS AND CHAOS IN TIME DELAYED PIECEWISE LINEAR DYNAMICAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2895-2912.	1.7	22
146	On the complete integrability and linearization of nonlinear ordinary differential equations. II. Third-order equations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 1831-1852.	2.1	22
147	Stability of synchronization in coupled time-delay systems using Krasovskii-Lyapunov theory. Physical Review E, 2009, 79, 066208.	2.1	22
148	Interplay of symmetries, null forms, Darboux polynomials, integrating factors and Jacobi multipliers in integrable second-order differential equations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20130656.	2.1	22
149	Imperfectly synchronized states and chimera states in two interacting populations of nonlocally coupled Stuart-Landau oscillators. Physical Review E, 2016, 94, 012311.	2.1	22
150	Singularity-structure analysis and Hirota's bilinearisation of the Davey-Stewartson equation. Journal of Physics A, 1987, 20, L1143-L1147.	1.6	21
151	Experimental confirmation of chaotic phase synchronization in coupled time-delayed electronic circuits. Physical Review E, 2010, 82, 065201.	2.1	21
152	Phase-flip chimera induced by environmental nonlocal coupling. Physical Review E, 2016, 94, 012208.	2.1	21
153	Nondegenerate soliton solutions in certain coupled nonlinear SchrÃ¶dinger systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126201.	2.1	21
154	Dynamics of a nonlinear field. Annals of Physics, 1973, 79, 171-185.	2.8	20
155	Semiclassical quantization of the hydrogen atom in a generalized van der Waals potential. Physical Review A, 1992, 45, 1548-1555.	2.5	20
156	On the non-integrability of a family of Duffing-van der Pol oscillators. Journal of Physics A, 1993, 26, 6927-6942.	1.6	20
157	Bifurcation, Chaos and Suppression of Chaos in FitzHugh-Nagumo Nerve Conduction Model Equation. Journal of Theoretical Biology, 1994, 166, 275-288.	1.7	20
158	Intrinsic localized modes of a classical discrete anisotropic Heisenberg ferromagnetic spin chain. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1119-1125.	2.1	20
159	Different kinds of chimera death states in nonlocally coupled oscillators. Physical Review E, 2016, 93, 052213.	2.1	20
160	Quantum solvability of a general ordered position dependent mass system: Mathews-Lakshmanan oscillator. Journal of Mathematical Physics, 2017, 58, .	1.1	20
161	Stable amplitude chimera states in a network of locally coupled Stuart-Landau oscillators. Chaos, 2018, 28, 033110.	2.5	20
162	On symmetry preserving and symmetry broken bright, dark and antidark soliton solutions of nonlocal nonlinear SchrÃ¶dinger equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 15-26.	2.1	20

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163	The energy levels of anx 6 anharmonic oscillator. Lettere Al Nuovo Cimento Rivista Internazionale Della SocietÃ Italiana Di Fisica, 1973, 7, 689-693.	0.4	19
164	The doubly anharmonic oscillator. Lettere Al Nuovo Cimento Rivista Internazionale Della SocietÃ Italiana Di Fisica, 1973, 8, 743-748.	0.4	19
165	Geometrical equivalence of a deformed heisenberg spin equation and the generalized nonlinear schrÃ¶dinger equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 124, 159-160.	2.1	19
166	Discretised Hirota equation, equivalent spin chain and Backlund transformations. Inverse Problems, 1989, 5, L15-L19.	2.0	19
167	On the exact solutions of the duffing oscillator. Journal of Sound and Vibration, 1990, 137, 523-526.	3.9	19
168	Trilinearization and localized coherent structures and periodic solutions for the (2+1) dimensional K-dV and NNV equations. Chaos, Solitons and Fractals, 2009, 39, 942-955.	5.1	19
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