

Conrad Bertrand Tabi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106

papers

870

citations

17

h-index

21

g-index

116

ext. papers

1,103

ext. citations

3.2

avg, IF

4.96

L-index

#	Paper	IF	Citations
106	On stochastic response of fractional-order generalized birhythmic van der Pol oscillator subjected to delayed feedback displacement and Gaussian white noise excitation. <i>Chaos, Solitons and Fractals</i> , 2022 , 157, 111936	9.3	0
105	Stability of nonparaxial gap-soliton bullets in waveguide gratings. <i>Chaos, Solitons and Fractals</i> , 2022 , 158, 112034	9.3	0
104	(2+1)-dimensional unstable matter waves in self-interacting pseudospin-1/2 BECs under combined Rashba and Dresselhaus spin-orbit couplings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 442, 128192	2.3	0
103	Dynamics of moving cavity solitons in two-level laser system from symmetric gaussian input: vectorial cubic-quintic complex Ginzburg-Landau equation. <i>Applied Physics B: Lasers and Optics</i> , 2021 , 127, 1	1.9	0
102	Higher-order dispersion and nonlinear effects of optical fibers under septic self-steepening and self-frequency shift. <i>Physical Review E</i> , 2021 , 104, 044208	2.4	3
101	Excitons dynamic in a three-stranded (alpha)-helix protein chains with diagonal and off-diagonal couplings: effects of strong long-range interactions. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	2
100	Physical, linear and nonlinear optical properties of amorphous Se _{90-x} Te _{10Mx} (M=Zn, In, Pb, x=0, 5) chalcogenide thin films by electron-beam deposition. <i>Journal of Non-Crystalline Solids</i> , 2021 , 557, 120646	3.9	5
99	Modulation instability in helicoidal spin-orbit coupled open Bose-Einstein condensates. <i>Physical Review E</i> , 2021 , 103, 052206	2.4	1
98	Effects of the septic nonlinearity and the initial value of the radius of orbital angular momentum beams on data transmission in optical fibers using the cubic-quintic-septic complex Ginzburg-Landau equation in presence of higher-order dispersions. <i>Chaos, Solitons and Fractals</i> , 2021 , 147, 110974	9.3	3
97	Chaos break and synchrony enrichment within Hindmarsh-Rose-type memristive neural models. <i>Nonlinear Dynamics</i> , 2021 , 105, 785-795	5	2
96	Pattern formation in the Fitzhugh-Nagumo neuron with diffusion relaxation. <i>Chaos, Solitons and Fractals</i> , 2021 , 147, 110974	9.3	0
95	Fractional properties effects on a hybrid energy harvesting system dynamics. <i>Meccanica</i> , 2021 , 56, 2451-2469	2.46	1
94	Diffusion effects in nonlinear dynamics of hepatitis B virus. <i>Physica Scripta</i> , 2021 , 96, 105217	2.6	
93	Stochastic dynamics of the FitzHugh-Nagumo neuron model through a modified Van der Pol equation with fractional-order term and Gaussian white noise excitation. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2021 , 14, 2229	2.8	0
92	Fractional-Order Model for Myxomatosis Transmission Dynamics: Significance of Contact, Vector Control and Culling. <i>SIAM Journal on Applied Mathematics</i> , 2021 , 81, 641-665	1.8	1
91	Fractional blood flow in rotating nanofluid with different shapes nanoparticles in the influence of activation energy and thermal radiation. <i>Chaos</i> , 2021 , 31, 093109	3.3	0
90	Long-range modulated wave patterns in certain nonlinear saturation alpha-helical proteins. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	1

89	Generation of matter waves in Bose-Bose mixtures with helicoidal spin-orbit coupling. <i>Physical Review A</i> , 2021 , 104,	2.6	1
88	Dynamics and pattern formation of a diffusive predator-prey model in the subdiffusive regime in presence of toxicity. <i>Chaos, Solitons and Fractals</i> , 2021 , 151, 111238	9.3	0
87	Base pair opening in a damped helicoidal Joyeux-Buyukdagli model of DNA in an external force field. <i>Physical Review E</i> , 2020 , 102, 062402	2.4	9
86	Modulational instability of coupled waves in electronegative plasmas. <i>Physica Scripta</i> , 2020 , 95, 075211	2.6	1
85	Dynamics of a non-smooth type hybrid energy harvester with nonlinear magnetic coupling. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 90, 105364	3.7	4
84	Unstable cardiac multi-spiral waves in a FitzHugh-Nagumo soliton model under magnetic flow effect. <i>Nonlinear Dynamics</i> , 2020 , 100, 3799-3814	5	5
83	Vector dissipative light bullets in optical laser beam. <i>Applied Physics B: Lasers and Optics</i> , 2020 , 126, 1	1.9	2
82	Long-range memory effects in a magnetized Hindmarsh-Rose neural network. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 84, 105208	3.7	6
81	Modulational instability of gap solitons in single-walled carbon nanotube lattices. <i>Wave Motion</i> , 2020 , 94, 102511	1.8	
80	Modulational instability in nonlinear doped optical fiber induced by the cubic-quintic-Septic complex Ginzburg-Landau equation with higher-order dispersions. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, A214	1.7	6
79	Few-cycle optical pulses in negative index materials with dispersive permittivity and permeability. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, A331	1.7	3
78	From African Bam-tam to nonlinear optics [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, A346	1.7	2
77	Transport and diffusion of Brownian particles in a tilted deformable potential. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 541, 123284	3.3	1
76	Unstable cAMP wave patterns during aggregation of Dictyostelium discoideum cells. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126133	2.3	1
75	Generalized synchronization of regulate seizures dynamics in partial epilepsy with fractional-order derivatives. <i>Chaos, Solitons and Fractals</i> , 2020 , 132, 109553	9.3	5
74	Magnetic field effect on a fractionalized blood flow model in the presence of magnetic particles and thermal radiations. <i>Chaos, Solitons and Fractals</i> , 2020 , 131, 109540	9.3	5
73	Modulation instability in nonlinear metamaterials modeled by a cubic-quintic complex Ginzburg-Landau equation beyond the slowly varying envelope approximation. <i>Physical Review E</i> , 2020 , 102, 042207	2.4	5
72	Hopf bifurcations on invariant manifolds of a modified Fitzhugh-Nagumo model. <i>Nonlinear Dynamics</i> , 2020 , 102, 311-327	5	1

71	Modulational instability in weak nonlocal nonlinear media with competing Kerr and non-Kerr nonlinearities. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 80, 104993	3.7	7
70	Orbital stability and homoclinic bifurcation in a parametrized deformable double-well potential. <i>Chaos, Solitons and Fractals</i> , 2020 , 130, 109411	9.3	2
69	Base pairs opening and bubble transport in damped DNA dynamics with transport memory effects. <i>Chaos</i> , 2019 , 29, 093103	3.3	6
68	Robust propagation of optical vortex beams, necklace-ring solitons, soliton clusters and uniform-ring beams generated in the frame of the higher-order (3 + 1)-dimensional cubic-quintic-septic complex Ginzburg-Landau equation. <i>Physica Scripta</i> , 2019 , 94, 075501	2.6	4
67	Unstable discrete modes in Hindmarsh-Rose neural networks under magnetic flow effect. <i>Chaos, Solitons and Fractals</i> , 2019 , 123, 116-123	9.3	12
66	On the chaotic pole of attraction for Hindmarsh-Rose neuron dynamics with external current input. <i>Chaos</i> , 2019 , 29, 023104	3.3	10
65	Oscillating two-dimensional Ca ²⁺ waves in cell networks with bidirectional paracrine signaling. <i>Waves in Random and Complex Media</i> , 2019 , 1-23	1.9	1
64	Low relativistic effects on the modulational instability of rogue waves in electronegative plasmas. <i>Journal of Theoretical and Applied Physics</i> , 2019 , 13, 237-249	1.4	10
63	Elimination of spiral waves in a two-dimensional Hindmarsh-Rose neural network under long-range interaction effect and frequency excitation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 533, 122037	3.3	4
62	Firing and synchronization modes in neural network under magnetic stimulation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 72, 432-440	3.7	20
61	Long-range energy modes in α -helix lattices with inter-spine coupling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 514, 298-310	3.3	5
60	Dissipative Meyer waves in fluid-filled viscoelastic tubes. <i>Chaos, Solitons and Fractals</i> , 2018 , 109, 170-183.	3	4
59	Fractional blood flow in oscillatory arteries with thermal radiation and magnetic field effects. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 456, 38-45	2.8	18
58	Electronegative nonlinear oscillating modes in plasmas. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018 , 55, 326-337	3.7	18
57	Fluctuations of polarization induce multisolitons in (α) -helix protein. <i>Nonlinear Dynamics</i> , 2018 , 91, 679-686	5	9
56	Electronegative (3+1)-dimensional modulated excitations in plasmas. <i>Physica B: Condensed Matter</i> , 2018 , 545, 370-376	2.8	6
55	Dynamical analysis of the FitzHugh-Nagumo oscillations through a modified Van der Pol equation with fractional-order derivative term. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 105, 173-178	2.8	17
54	Three excitons states in nonlinear saturation (α) -helix protein. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	3

53	Stochastic electrical behavior of Splina liquid chlorophyll drink. <i>Indian Journal of Science and Technology</i> , 2018 , 11, 1-13	1	1
52	Stochastic electrical behavior of Splina liquid chlorophyll drink. <i>Indian Journal of Science and Technology</i> , 2018 , 11, 1-14	1	1
51	Neuronal firing and DNA dynamics in a neural network. <i>Journal of Physics Communications</i> , 2018 , 2, 125004	0.4	6
50	Fractional unstable patterns of energy in Helix proteins with long-range interactions. <i>Chaos, Solitons and Fractals</i> , 2018 , 116, 386-391	9.3	11
49	Spatial synchrony in fractional order metapopulation cholera transmission. <i>Chaos, Solitons and Fractals</i> , 2018 , 117, 37-49	9.3	6
48	Long-range patterns in HindmarshRose networks. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 43, 211-219	3.7	30
47	Frequency mode excitations in two-dimensional HindmarshRose neural networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 474, 186-198	3.3	16
46	Nonlinear excitations of blood flow in large vessels under thermal radiations and uniform magnetic field. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 49, 1-8	3.7	12
45	Coupled energy patterns in zigzag molecular chains. <i>Wave Motion</i> , 2017 , 72, 342-353	1.8	6
44	Nonlinear coupled mode excitations in microtubules. <i>Chaos, Solitons and Fractals</i> , 2017 , 95, 187-194	9.3	9
43	Synchronized nonlinear patterns in electrically coupled HindmarshRose neural networks with long-range diffusive interactions. <i>Chaos, Solitons and Fractals</i> , 2017 , 104, 813-826	9.3	18
42	Two-dimensional modulated ion-acoustic excitations in electronegative plasmas. <i>Physics of Plasmas</i> , 2017 , 24, 092114	2.1	14
41	Modulational instability in a biexciton molecular chain with saturable nonlinearity effects. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1550244	1.1	
40	Modulated charge patterns and noise effect in a twisted DNA model with solvent interaction. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 442, 498-509	3.3	14
39	Discrete Polaron Solutions for Charge Transport in Helicoidal DNA Molecules. <i>Quantum Matter</i> , 2016 , 5, 139-146		2
38	Bubble Formation in Helicoidal DNA Molecules 2016 , 06,		1
37	Energy patterns in coupled Helix protein chains with diagonal and off-diagonal couplings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 2374-2381	2.3	23
36	Modulational instability and energy localization of twisted DNA with solvent interaction. <i>International Journal of Modern Physics B</i> , 2015 , 29, 1550049	1.1	2

35	Long-range intercellular Ca ²⁺ wave patterns. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015 , 435, 1-14	3.3	14
34	Discrete impulses in ephaptically coupled nerve fibers. <i>Chaos</i> , 2015 , 25, 043118	3.3	24
33	Energy patterns in twist-opening models of DNA with solvent interactions. <i>Journal of Biological Physics</i> , 2015 , 41, 391-408	1.6	5
32	Discrete charge patterns in a Holstein-SSH DNA lattice. <i>International Journal of Quantum Chemistry</i> , 2015 , 115, 34-41	2.1	6
31	Effects of higher order nonlinearities on modulational instability in nonlinear oppositely directed coupler. <i>Journal of Modern Optics</i> , 2014 , 61, 1670-1678	1.1	30
30	Wave instability of intercellular Ca ²⁺ oscillations. <i>Europhysics Letters</i> , 2014 , 106, 18005	1.6	17
29	Nonlinear wave trains in three-strand helical protein models. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	17
28	Wave patterns in helix proteins with interspine coupling. <i>Physica Scripta</i> , 2013 , 87, 025801	2.6	11
27	Modulated pressure waves in large elastic tubes. <i>Chaos</i> , 2013 , 23, 033128	3.3	20
26	Nonlinear charge transport in the helicoidal DNA molecule. <i>Chaos</i> , 2012 , 22, 043110	3.3	26
25	Discrete energy transport in the perturbed Ablowitz-Ladik equation for Davydov model of helix proteins. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	13
24	Coherent Modes and Parameter Selection in DNA Models with Finite Stacking Enthalpy. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012 , 9, 97-101	0.3	4
23	Wave propagation of coupled modes in the DNA double helix. <i>Physica Scripta</i> , 2011 , 83, 035802	2.6	11
22	Protein-DNA Interaction: Effect of Helicity on Bubble Size. <i>Journal of Computational and Theoretical Nanoscience</i> , 2011 , 8, 2220-2226	0.3	2
21	Application of the (G'/G)-expansion method to nonlinear blood flow in large vessels. <i>Physica Scripta</i> , 2011 , 84, 029701	2.6	2
20	Intramolecular vibrations and noise effects on pattern formation in a molecular helix. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 375104	1.8	13
19	Application of the (G'/G)-expansion method to nonlinear blood flow in large vessels. <i>Physica Scripta</i> , 2011 , 83, 045803	2.6	7
18	Energy localization in an anharmonic twist-opening model of DNA dynamics. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 414107	1.8	7

17	Modulational instability in the anharmonic Peyrard-Bishop model of DNA. <i>European Physical Journal B</i> , 2010 , 74, 151-158	1.2	27
16	Long-range interactions and wave patterns in a DNA model. <i>European Physical Journal E</i> , 2010 , 32, 327-32.5		15
15	Two Possible Approaches in Peyrard-Bishop-Dauxois Model of DNA Dynamics. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010 , 7, 1418-1424	0.3	3
14	Discrete instability in the DNA double helix. <i>Chaos</i> , 2009 , 19, 043101	3.3	20
13	Modulation Instability and Pattern Formation in Damped Molecular Systems. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009 , 6, 583-592	0.3	4
12	LOCALIZED BREATHING-LIKE EXCITATIONS IN THE HELICOIDAL PEYRARD-BISHOP MODEL OF DNA. <i>International Journal of Biomathematics</i> , 2009 , 02, 405-417	1.8	3
11	Modulational instability and exact soliton solutions for a twist-opening model of DNA dynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 2476-2483	2.3	20
10	Modulational instability of charge transport in the Peyrard-Bishop-Holstein model. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 335101	1.8	13
9	Modulated Wave Packets in DNA and Impact of Viscosity. <i>Chinese Physics Letters</i> , 2009 , 26, 068703	1.8	21
8	Formation of localized structures in the Peyrard-Bishop-Dauxois model. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 415104	1.8	19
7	Soliton excitation in the DNA double helix. <i>Physica Scripta</i> , 2008 , 77, 045002	2.6	21
6	Modulational Instability in DNA Model with Competing Short- and Long-Range Dispersive Interactions. <i>Journal of Bionanoscience</i> , 2008 , 2, 89-96		6
5	Wave propagation of nonlinear modes and formation of bubble in a two-component helicoidal lattice. <i>European Physical Journal D</i> , 2008 , 50, 307-316	1.3	20
4	Acoustic and Optical Soliton Excitations in the Peyrard-Bishop Model of DNA Dynamics with Alternating A-T and G-C Base Pairs. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008 , 5, 2201-2209	0.3	6
3	Modulational Instability and Pattern Formation in DNA Dynamics with Viscosity. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008 , 5, 647-654	0.3	14
2	Soliton-like excitation in a nonlinear model of DNA dynamics with viscosity. <i>Mathematical Biosciences and Engineering</i> , 2008 , 5, 205-16	2.1	16
1	On a Laser (3+1)-Dimensional Vectorial Cubic-Quintic Complex Ginzburg-Landau Equation and Modulational Instability		2