

Roberto AndrÃ© Kraenkel

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

2,063
citations

279798

23
h-index

265206

42
g-index

105
all docs

105
docs citations

105
times ranked

1607
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the best time interval between doses in a two-dose vaccination regimen to reduce the number of deaths in an ongoing epidemic of SARS-CoV-2. <i>PLoS Computational Biology</i> , 2022, 18, e1009978.	3.2	10
2	Percolation across households in mechanistic models of non-pharmaceutical interventions in SARS-CoV-2 disease dynamics. <i>Epidemics</i> , 2022, 39, 100551.	3.0	4
3	The role of constant vorticity on weakly nonlinear surface gravity waves. <i>Wave Motion</i> , 2021, 102, 102702.	2.0	0
4	Spatial-temporal pattern of cutaneous leishmaniasis in Brazil. <i>Infectious Diseases of Poverty</i> , 2021, 10, 86.	3.7	6
5	Miles's mechanism for generating surface water waves by wind, in finite water depth and subject to constant vorticity flow. <i>Coastal Engineering</i> , 2021, 170, 103976.	4.0	2
6	Brazil in the face of new SARS-CoV-2 variants: emergencies and challenges in public health. <i>Revista Brasileira De Epidemiologia</i> , 2021, 24, e210022.	0.8	7
7	Model-based estimation of transmissibility and reinfection of SARS-CoV-2 P.1 variant. <i>Communications Medicine</i> , 2021, 1, .	4.2	67
8	Climate drivers of malaria at its southern fringe in the Americas. <i>PLoS ONE</i> , 2019, 14, e0219249.	2.5	9
9	Critical patch-size for two-sex populations. <i>Mathematical Biosciences</i> , 2018, 300, 138-144.	1.9	2
10	Green's-Naghdi dynamics of surface wind waves in finite depth. <i>Fluid Dynamics Research</i> , 2018, 50, 025514.	1.3	3
11	Theory does not meet experiment: transient dynamics changes patterns of exclusion in an intraguild predation system. <i>Population Ecology</i> , 2017, 59, 371-378.	1.2	2
12	Do I Know You? How Individual Recognition Affects Group Formation and Structure. <i>PLoS ONE</i> , 2017, 12, e0170737.	2.5	5
13	On the characterization of vector rogue waves in two-dimensional two coupled nonlinear Schrödinger equations with distributed coefficients. <i>European Physical Journal B</i> , 2016, 89, 1.	1.5	27
14	Amplification of matter rogue waves and breathers in quasi-two-dimensional Bose-Einstein condensates. <i>European Physical Journal B</i> , 2016, 89, 1.	1.5	11
15	Catastrophic Regime Shift in Water Reservoirs and São Paulo Water Supply Crisis. <i>PLoS ONE</i> , 2015, 10, e0138278.	2.5	45
16	Spatial dynamics of a population with stage-dependent diffusion. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 605-610.	3.3	3
17	Finite time blow-up and breaking of solitary wind waves. <i>Physical Review E</i> , 2014, 90, 013006.	2.1	4
18	An integrable evolution equation for surface waves in deep water. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 025208.	2.1	17

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19	How population loss through habitat boundaries determines the dynamics of a predator–prey system. <i>Ecological Complexity</i> , 2014, 20, 33-42.	2.9	8
20	On certain new exact solutions of a diffusive predator–prey system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 1269-1274.	3.3	27
21	Wind-wave amplification mechanisms: possible models for steep wave events in finite depth. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 2805-2813.	3.6	15
22	Modeling Habitat Split: Landscape and Life History Traits Determine Amphibian Extinction Thresholds. <i>PLoS ONE</i> , 2013, 8, e66806.	2.5	18
23	Biodiversity Can Help Prevent Malaria Outbreaks in Tropical Forests. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2139.	3.0	74
24	Competitive release and area effects. <i>Ecological Complexity</i> , 2012, 11, 154-159.	2.9	12
25	Integrodifference model for blowfly invasion. <i>Theoretical Ecology</i> , 2012, 5, 363-371.	1.0	11
26	Application of the -symmetries approach and time independent integral of the modified Emden equation. <i>Nonlinear Analysis: Real World Applications</i> , 2012, 13, 1102-1114.	1.7	14
27	Population persistence in weakly-coupled sinks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 142-146.	2.6	7
28	The Role of Immunity and Seasonality in Cholera Epidemics. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 2916-2931.	1.9	46
29	Integrable NLS equation with time-dependent nonlinear coefficient and self-similar attractive BEC. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 86-92.	3.3	5
30	On the particular solutions of an integrable equation governing short waves in a long-wave model. <i>Nonlinear Analysis: Real World Applications</i> , 2011, 12, 446-449.	1.7	2
31	Solving the Levins' paradox in the logistic model to the population growth. <i>Journal of Physics: Conference Series</i> , 2011, 285, 012023.	0.4	0
32	Lie point symmetries and the time-independent integral of the damped harmonic oscillator. <i>Physica Scripta</i> , 2011, 83, 055005.	2.5	5
33	Stochastic Skellam model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 60-66.	2.6	6
34	The modulational instability in deep water under the action of wind and dissipation. <i>Journal of Fluid Mechanics</i> , 2010, 664, 138-149.	3.4	57
35	On the solutions of the position-dependent effective mass Schrödinger equation of a nonlinear oscillator related with the isotonic oscillator. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 415303.	2.1	25
36	Solitary waves on a free surface of a heated Maxwell fluid. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 109-121.	2.1	1

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37	Disturbance and repair of solitary waves in blood vessels with aneurysm. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 51-60.	3.3	12
38	Evolution equation for short surface waves on water of finite depth. Physica D: Nonlinear Phenomena, 2009, 238, 1821-1825.	2.8	1
39	Patch-size and isolation effects in the Fisher-Kolmogorov equation. Journal of Mathematical Biology, 2008, 57, 521-535.	1.9	13
40	Whitham method for the Benjamin-Ono-Burgers equation and dispersive shocks. Physical Review E, 2007, 75, 016307.	2.1	17
41	Optimal Boussinesq model for shallow-water waves interacting with a microstructure. Physical Review E, 2007, 76, 046311.	2.1	15
42	An Exact Equation for the Free Surface of a Fluid in a Porous Medium. SIAM Journal on Applied Mathematics, 2007, 67, 619-629.	1.8	3
43	A mathematical model for wave propagation in elastic tubes with inhomogeneities: Application to blood waves propagation. Physica D: Nonlinear Phenomena, 2007, 236, 131-140.	2.8	3
44	Theory of optical dispersive shock waves in photorefractive media. Physical Review A, 2007, 76, .	2.5	77
45	Theory of small aspect ratio waves in deep water. Physica D: Nonlinear Phenomena, 2005, 211, 377-390.	2.8	7
46	Nonlinear dynamics of short traveling capillary-gravity waves. Physical Review E, 2005, 71, 026307.	2.1	12
47	Vortices in nonlocal Gross-Pitaevskii equation. Journal of Physics A, 2004, 37, 6633-6651.	1.6	5
48	Dissipationless shock waves in Bose-Einstein condensates with repulsive interaction between atoms. Physical Review A, 2004, 69, .	2.5	88
49	Solitons in tunnel-coupled repulsive and attractive condensates. Physical Review A, 2004, 69, .	2.5	9
50	Mixed-isotope Bose-Einstein condensates in rubidium. Physical Review A, 2004, 69, .	2.5	13
51	Quantum coherent tunneling between two atomic-molecular Bose-Einstein condensates. European Physical Journal D, 2004, 30, 369-377.	1.3	1
52	Bose-Einstein Condensates in 2D with Time-Periodic Scattering Length. Journal of Low Temperature Physics, 2004, 134, 671-676.	1.4	2
53	Solitons in Bose-Einstein condensates trapped in a double-well potential. Physica D: Nonlinear Phenomena, 2004, 188, 213-240.	2.8	49
54	Resonances in a trapped 3D Bose-Einstein condensate under periodically varying atomic scattering length. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 3535-3550.	1.5	21

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55	Shock Waves in Bose-Einstein Condensates. , 2004, , 285-290.		0
56	Dynamics of Discrete Solitons in Media with Varying Nonlinearity. , 2004, , 529-534.		0
57	Formation of soliton trains in Bose-Einstein condensates as a nonlinear Fresnel diffraction of matter waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 319, 406-412.	2.1	15
58	Asymptotic soliton train solutions of Kaup-Boussinesq equations. Wave Motion, 2003, 38, 355-365.	2.0	32
59	Controlling collapse in Bose-Einstein condensates by temporal modulation of the scattering length. Physical Review A, 2003, 67, .	2.5	329
60	Soliton propagation in a medium with Kerr nonlinearity and resonant impurities: A variational approach. Physical Review E, 2003, 67, 046615.	2.1	10
61	Array of Bose-Einstein condensates under time-periodic Feshbach-resonance management. Physical Review A, 2003, 68, .	2.5	52
62	Asymptotic soliton train solutions of the defocusing nonlinear Schrödinger equation. Physical Review E, 2002, 66, 036609.	2.1	78
63	Synchronization: Stability and duration time. Physical Review E, 2002, 65, 036225.	2.1	38
64	On the relationship between a 2×2 matrix and second-order scalar spectral problems for integrable equations. Journal of Physics A, 2002, 35, L13-L18.	1.6	12
65	Periodic waves and solitons in a nonlinear fibre with resonant impurities. Journal of Modern Optics, 2002, 49, 2183-2193.	1.3	2
66	Mathematical Models of Generalized Diffusion. Physica Scripta, 2001, 63, 353-356.	2.5	0
67	On asymptotic solutions of integrable wave equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 287, 223-232.	2.1	8
68	Modified Korteweg-de Vries hierarchy with hodograph transformation: Camassa-Holm and Harry-Dym hierarchies. Mathematics and Computers in Simulation, 2001, 55, 483-491.	4.4	3
69	Symmetry analysis of an integrable reaction-diffusion equation. Chaos, Solitons and Fractals, 2001, 12, 463-474.	5.1	7
70	Short-wave instabilities in the Benjamin-Bona-Mahoney-Peregrine equation: theory and numerics. Inverse Problems, 2001, 17, 863-870.	2.0	4
71	Macroscopic quantum tunneling and resonances in coupled Bose-Einstein condensates with oscillating atomic scattering length. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 272, 395-401.	2.1	35
72	Lie symmetry analysis and reductions of a two-dimensional integrable generalization of the Camassa-Holm equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 273, 183-193.	2.1	38

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73	On the integrable perturbations of the Camassa-Holm equation. Journal of Mathematical Physics, 2000, 41, 3160-3169.	1.1	12
74	Nonlinear short-wave propagation in ferrites. Physical Review E, 2000, 61, 976-979.	2.1	66
75	Coherent atomic oscillations and resonances between coupled Bose-Einstein condensates with time-dependent trapping potential. Physical Review A, 2000, 62, .	2.5	103
76	Camassa-Holm equation: transformation to deformed sinh-Gordon equations, cuspon and soliton solutions. Journal of Physics A, 1999, 32, 4733-4747.	1.6	26
77	Long-wave and short-wave asymptotics in nonlinear dispersive systems. Physical Review E, 1999, 60, 2418-2420.	2.1	4
78	Two-dimensional integrable generalization of the Camassa-Holm equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 260, 218-224.	2.1	32
79	Soliton-cuspon interaction for the Camassa-Holm equation. Journal of Physics A, 1999, 32, 8665-8670.	1.6	15
80	Linearizability of the perturbed Burgers equation. Physical Review E, 1998, 58, 2526-2530.	2.1	17
81	First-order perturbed Korteweg-de Vries solitons. Physical Review E, 1998, 57, 4775-4777.	2.1	14
82	The Role of the Korteweg-de Vries Hierarchy in the N-Soliton Dynamics of the Shallow Water Wave Equation. Journal of the Physical Society of Japan, 1997, 66, 1277-1281.	1.6	8
83	Multiple-time higher-order perturbation analysis of the regularized long-wavelength equation. Physical Review E, 1996, 54, 2976-2981.	2.1	14
84	The Korteweg-de Vries hierarchy and long water waves. Journal of Mathematical Physics, 1995, 36, 307-320.	1.1	42
85	Boussinesq solitary wave as a multiple-time solution of the Korteweg-de Vries hierarchy. Journal of Mathematical Physics, 1995, 36, 6822-6828.	1.1	10
86	The reductive perturbation method and the Korteweg-de Vries hierarchy. Acta Applicandae Mathematicae, 1995, 39, 389-403.	1.0	14
87	Modulational instability analysis of surface-waves in the Břnard-Marangoni phenomenon. Physica D: Nonlinear Phenomena, 1995, 87, 356-360.	2.8	2
88	Dissipative Boussinesq system of equations in the Břnard-Marangoni phenomenon. Physical Review E, 1994, 49, 1759-1762.	2.1	4
89	Hydrothermal surface-wave instability and the Kuramoto-Sivashinsky equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 185, 88-92.	2.1	2
90	Boussinesq-type system of equations in the Břnard-Marangoni system. Theoretical and Mathematical Physics(Russian Federation), 1994, 99, 692-698.	0.9	0

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91	Nonlinear diffusion process in a Bénard system at the critical point for the onset of convection. Physical Review E, 1993, 47, 3303-3306.	2.1	1
92	Surface solitary waves in a double diffusive system. Physica Scripta, 1992, 45, 289-291.	2.5	9
93	Nonlinear surface-wave excitations in the Bénard-Marangoni system. Physical Review A, 1992, 46, 4786-4790.	2.5	18
94	Surface perturbations of a shallow viscous fluid heated from below and the (2+1)-dimensional Burgers equation. Physical Review A, 1992, 45, 838-841.	2.5	15
95	Effects of a temperature dependent viscosity in surface nonlinear waves propagating in a shallow fluid heated from below. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 169, 259-262.	2.1	2
96	Perturbative coherence in field theory. Journal of Mathematical Physics, 1989, 30, 1866-1870.	1.1	5
97	On exterior variational calculus. Journal of Physics A, 1988, 21, 1329-1339.	1.6	6
98	Anti-BRS Invariance and Lagrangianity in Classical Mechanics. Europhysics Letters, 1988, 6, 381-384.	2.0	1