

Miguel A Alejo

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Nonlinear Stability of MKdV Breathers. <i>Communications in Mathematical Physics</i> , 2013, 324, 233-262.	2.2	46
2	The Gardner equation and the ℓ^2 -stability of the ℓ -soliton solution of the Korteweg-de Vries equation. <i>Transactions of the American Mathematical Society</i> , 2013, 365, 195-212.	0.9	24
3	On the variational structure of breather solutions I: Sine-Gordon equation. <i>Journal of Mathematical Analysis and Applications</i> , 2017, 453, 1111-1138.	1.0	22
4	Dynamics of complex-valued modified KdV solitons with applications to the stability of breathers. <i>Analysis and PDE</i> , 2015, 8, 629-674.	1.4	20
5	Nonlinear stability of Gardner breathers. <i>Journal of Differential Equations</i> , 2018, 264, 1192-1230.	2.2	14
6	Almost sharp nonlinear scattering in one-dimensional Born-Infeld equations arising in nonlinear electrodynamics. <i>Proceedings of the American Mathematical Society</i> , 2018, 146, 2225-2237.	0.8	13
7	Focusing mKdV Breather Solutions with Nonvanishing Boundary Condition by the Inverse Scattering Method. <i>Journal of Nonlinear Mathematical Physics</i> , 2012, 19, 119.	1.3	11
8	Discrete conservation laws and the convergence of long time simulations of the mkdv equation. <i>Journal of Computational Physics</i> , 2013, 235, 274-285.	3.8	11
9	The Akhmediev breather is unstable. <i>Sao Paulo Journal of Mathematical Sciences</i> , 2019, 13, 391-401.	0.4	11
10	Geometric Breathers of the mKdV Equation. <i>Acta Applicandae Mathematicae</i> , 2012, 121, 137-155.	1.0	9
11	On the nonlinear stability of mKdV breathers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 432001.	2.1	9
12	Review on the Stability of the Peregrine and Related Breathers. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	9
13	On the ill-posedness of the Gardner equation. <i>Journal of Mathematical Analysis and Applications</i> , 2012, 396, 256-260.	1.0	8
14	On the Dynamics of Zero-Speed Solutions for Camassa-Holm-Type Equations. <i>International Mathematics Research Notices</i> , 2021, 2021, 6543-6585.	1.0	8
15	Well-posedness and stability results for the Gardner equation. <i>Nonlinear Differential Equations and Applications</i> , 2012, 19, 503-520.	0.8	7
16	Stability and instability of breathers in the $U(1)$ Sasa-Satsuma and nonlinear Schrödinger models*. <i>Nonlinearity</i> , 2021, 34, 3429-3484.	1.4	6
17	Collective coordinates theory for discrete soliton ratchets in the sine-Gordon model. <i>Physical Review E</i> , 2014, 90, 042922.	2.1	4
18	Modeling chemotaxis with nonstandard production/degradation mechanisms from Doebner-Goldin theory: Existence of solitary waves. <i>Physica D: Nonlinear Phenomena</i> , 2021, 426, 132989.	2.8	2

#	ARTICLE	IF	CITATIONS
19	On the ill-posedness of the 5th-order Gardner equation. Sao Paulo Journal of Mathematical Sciences, 2019, 13, 383-390.	0.4	1
20	On global solutions to some non-Markovian quantum kinetic models of Fokker-Planck type. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	1.4	0
21	Global Solutions and Stability Properties of the 5th Order Gardner Equation. Journal of Dynamics and Differential Equations, 0, , 1.	1.9	0