Javier Villarroel

List of Publications by Year
in descending order

44 papers	855 citations	687363 13 h-index	477307 29 g-index
45 all docs	45 docs citations	45 times ranked	328 citing authors

#	ARTICLE	IF	CITATIONS
1	Monotonic continuous-time random walks with drift and stochastic reset events. Physical Review E, 2013, 87, 012116.	2.1	99
2	On the Discrete Spectrum of the Nonstationary SchrÃ¶dinger Equation and Multipole Lumps of the Kadomtsev-Petviashvili I Equation. Communications in Mathematical Physics, 1999, 207, 1-42.	2.2	91
3	A novel class of solutions of the non-stationary SchrÃ¶dinger and the Kadomtsevâ€“Petviashvili I equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 267, 132-146.	2.1	87
4	Solutions to the Time Dependent SchrÃ¶dinger and the Kadomtsev-Petviashvili Equations. Physical Review Letters, 1997, 78, 570-573.	7.8	80
5	Directed random walk with random restarts: The Sisyphus random walk. Physical Review E, 2016, 94, 032132.	2.1	58
6	Dynamics of Lump Solutions in a 2 + 1 NLS Equation. Studies in Applied Mathematics, 2009, 122, 395-410.	2.4	53
7	Continuous-time random walks with reset events. European Physical Journal B, 2017, 90, 1.	1.5	53
8	On the Kadomtsevâ€Petviashvili Equation and Associated Constraints. Studies in Applied Mathematics, 1991, 85, 195-213.	2.4	47
9	On an algorithmic construction of lump solutions in a 2+1 integrable equation. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 7213-7231.	2.1	38
10	On a Volterra system. Nonlinearity, 1996, 9, 1113-1128.	1.4	28
11	On the initial value problem for the KPII equation with data that do not decay along a line. Nonlinearity, 2004, 17, 1843-1866.	1.4	28
12	The Cauchy Problem for the Kadomtsevâ€“Petviashili II Equation with Nondecaying Data along a Line. Studies in Applied Mathematics, 2002, 109, 151-162.	2.4	24
13	On the Discrete Spectrum of Systems in the Plane and the Davey--Stewartson II Equation. SIAM Journal on Mathematical Analysis, 2003, 34, 1253-1278.	1.9	22
14	The Inverse Problem for Ward's System. Studies in Applied Mathematics, 1990, 83, 211-222.	2.4	13
15	On the effect of random inhomogeneities in Kerr media modelled by a nonlinear SchrÃ¶dinger equation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 135404.	1.5	12
16	On the inverse scattering transform of the 2 + 1 Toda equation. Physica D: Nonlinear Phenomena, 1993, 65, 48-70.	2.8	11
17	Solvability of the Direct and Inverse Problems for the Nonlinear SchrÃ¶dinger Equation. Acta Applicandae Mathematicae, 2005, 87, 245-280.	1.0	11
18	Continuous-time ballistic process with random resets. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 123204.	2.3	9

#	Article	IF	Citations
19	On the Integrability of the Poisson Driven Stochastic Nonlinear SchrÃ¶dinger Equations. Studies in Applied Mathematics, 2011, 127, 372-393.	2.4	8
20	Weakly decaying solutions of nonlinear SchrÃ¶dinger equation in the plane. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 495203.	2.1	8
21	Stochasticity in Yangâ€"Mills theory. Journal of Mathematical Physics, 1988, 29, 2132-2136.	1.1	7
22	The DBAR Problem and the Thirring Model. Studies in Applied Mathematics, 1991, 84, 207-220.	2.4	7
23	On the method of solution to the 2+1 Toda equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 163, 293-298.	2.1	7
24	On the Solution to the Inverse Problem for the Toda Chain. SIAM Journal on Applied Mathematics, 1998, 59, 261-285.	1.8	7
25	Optimal designs for radiation retention with Poisson correlated response. Statistics in Medicine, 2007, 26, 1999-2016.	1.6	7
26	On solutions to Ito stochastic differential equations. Journal of Computational and Applied Mathematics, 2003, 158, 225-231.	2.0	6
27	The Stochastic Burger's Equation in Ito's Sense. Studies in Applied Mathematics, 2004, 112, 87-100.	2.4	6
28	Constraints in Yang-Mills classical mechanics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 181, 321-323.	4.1	4
29	On properties of continuous-time random walks with non-Poissonian jump-times. Chaos, Solitons and Fractals, 2009, 42, 128-137.	5.1	4
30	Exit times in non-Markovian drifting continuous-time random-walk processes. Physical Review E, 2010, 82, 021102.	2.1	4
31	Considerations on conserved quantities and boundary conditions of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math>-dimensional nonlinear SchrÃ¶dinger equation. Physica D: Nonlinear Phenomena, 2015, 300, 15-25.	2.8	4
32	A Semi-Deterministic Random Walk with Resetting. Entropy, 2021, 23, 825.	2.2	4
33	On the method of solution of the differential-delay Toda equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 180, 413-418.	2.1	2
34	On a Solvable Diffusion with Time Dependent â€œKillingâ€• Stochastic Analysis and Applications, 2003, 21, 1391-1418.	1.5	2
35	On statistical effects on stimulated Raman cross-talk. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2601-2612.	1.5	2
36	Stochastic model for market stocks with floors. Physica A: Statistical Mechanics and Its Applications, 2007, 382, 321-329.	2.6	1

#	Article	IF	Citations
37	On the integrability of the nonlinear SchrÃ¶dinger equation with randomly dependent linear potential. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 215202.	2.1	1
38	Yangâ€“Mills solutions in S3Ã—S1. Journal of Mathematical Physics, 1987, 28, 2610-2613.	1.1	0
39	On representations of solutions to certain stochastic differential equations. Journal of Computational Methods in Sciences and Engineering, 2004, 4, 97-103.	0.2	0
40	Valuation of stochastic interest rate securities with time-dependent variance. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 513-524.	2.6	0
41	Valuation of Endowment-Insurance Equity-Linked Contracts for Stocks with Exotic Dynamics. Scientific World Journal, The, 2014, 2014, 1-11.	2.1	0
42	Discrete Spectrum of 2 + 1-Dimensional Nonlinear SchrÃ¶dinger Equation and Dynamics of Lumps. Advances in Mathematical Physics, 2016, 2016, 1-11.	0.8	0
43	Breaking Waves and Spectral Analysis of the Twoâ€Dimensional KdVâ€“Bogoyavlenskii Equation. Studies in Applied Mathematics, 2018, 140, 78-130.	2.4	0
44	Exit Times in Non-Markovian Drifting Continuous-Time Random Walk Processes. SSRN Electronic Journal, 0, , .	0.4	0