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	A Semi-Deterministic Random Walk with Resetting. Entropy, 2021, 23, 825.	2.2	4
2	Breaking Waves and Spectral Analysis of the Two‐Dimensional KdV–Bogoyavlenskii Equation. Studies in Applied Mathematics, 2018, 140, 78-130.	2.4	0
3	Continuous-time ballistic process with random resets. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 123204.	2.3	9
4	Weakly decaying solutions of nonlinear Schrödinger equation in the plane. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 495203.	2.1	8
5	Continuous-time random walks with reset events. European Physical Journal B, 2017, 90, 1.	1.5	53
6	Discrete Spectrum of 2 + 1-Dimensional Nonlinear Schrödinger Equation and Dynamics of Lumps. Advances in Mathematical Physics, 2016, 2016, 1-11.	0.8	0
7	Directed random walk with random restarts: The Sisyphus random walk. Physical Review E, 2016, 94, 032132.	2.1	58
8	Considerations on conserved quantities and boundary conditions of the $2+1$-dimensional nonlinear Schrödinger equation. Physica D: Nonlinear Phenomena, 2015, 300, 15-25.	2.8	4
9	Valuation of Endowment-Insurance Equity-Linked Contracts for Stocks with Exotic Dynamics. Scientific World Journal, The, 2014, 2014, 1-11.	2.1	0
10	On the integrability of the nonlinear Schrödinger equation with randomly dependent linear potential. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 215202.	2.1	1
11	Monotonic continuous-time random walks with drift and stochastic reset events. Physical Review E, 2013, 87, 012116.	2.1	99
12	On the Integrability of the Poisson Driven Stochastic Nonlinear Schrödinger Equations. Studies in Applied Mathematics, 2011, 127, 372-393.	2.4	8
13	On the effect of random inhomogeneities in Kerr media modelled by a nonlinear Schrödinger equation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 135404.	1.5	12
14	Exit times in non-Markovian drifting continuous-time random-walk processes. Physical Review E, 2010, 82, 021102.	2.1	4
15	Dynamics of Lump Solutions in a 2 + 1 NLS Equation. Studies in Applied Mathematics, 2009, 122, 395-410.	2.4	53
16	On properties of continuous-time random walks with non-Poissonian jump-times. Chaos, Solitons and Fractals, 2009, 42, 128-137.	5.1	4
17	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
18	Stochastic model for market stocks with floors. Physica A: Statistical Mechanics and Its Applications, 2007, 382, 321-329.	2.6	1

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19	Optimal designs for radiation retention with Poisson correlated response. Statistics in Medicine, 2007, 26, 1999-2016.	1.6	7
20	Valuation of stochastic interest rate securities with time-dependent variance. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 513-524.	2.6	0
21	Solvability of the Direct and Inverse Problems for the Nonlinear Schrödinger Equation. Acta Applicandae Mathematicae, 2005, 87, 245-280.	1.0	11
22	On statistical effects on stimulated Raman cross-talk. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2601-2612.	1.5	2
23	On representations of solutions to certain stochastic differential equations. Journal of Computational Methods in Sciences and Engineering, 2004, 4, 97-103.	0.2	0
24	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
25	The Stochastic Burger's Equation in Ito's Sense. Studies in Applied Mathematics, 2004, 112, 87-100.	2.4	6
26	On solutions to Ito stochastic differential equations. Journal of Computational and Applied Mathematics, 2003, 158, 225-231.	2.0	6
27	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
28	On a Solvable Diffusion with Time Dependent "Killing". Stochastic Analysis and Applications, 2003, 21, 1391-1418.	1.5	2
29	The Cauchy Problem for the Kadomtsev–Petviashili II Equation with Nondecaying Data along a Line. Studies in Applied Mathematics, 2002, 109, 151-162.	2.4	24
30	A novel class of solutions of the non-stationary Schrödinger and the Kadomtsev–Petviashili I equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 267, 132-146.	2.1	87
31	On the Discrete Spectrum of the Nonstationary Schrödinger Equation and Multipole Lumps of the Kadomtsev-Petviashvili I Equation. Communications in Mathematical Physics, 1999, 207, 1-42.	2.2	91
32	On the Solution to the Inverse Problem for the Toda Chain. SIAM Journal on Applied Mathematics, 1998, 59, 261-285.	1.8	7
33	Solutions to the Time Dependent Schrödinger and the Kadomtsev-Petviashvili Equations. Physical Review Letters, 1997, 78, 570-573.	7.8	80
34	On a Volterra system. Nonlinearity, 1996, 9, 1113-1128.	1.4	28
35	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
36	On the inverse scattering transform of the 2 + 1 Toda equation. Physica D: Nonlinear Phenomena, 1993, 65, 48-70.	2.8	11

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37	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
38	The DBAR Problem and the Thirring Model. Studies in Applied Mathematics, 1991, 84, 207-220.	2.4	7
39	On the Kadomtsevâ€Petviashvili Equation and Associated Constraints. Studies in Applied Mathematics, 1991, 85, 195-213.	2.4	47
40	The Inverse Problem for Ward's System. Studies in Applied Mathematics, 1990, 83, 211-222.	2.4	13
41	Stochasticity in Yangâ€"Mills theory. Journal of Mathematical Physics, 1988, 29, 2132-2136.	1.1	7
42	Yangâ€"Mills solutions in S3Ã—S1. Journal of Mathematical Physics, 1987, 28, 2610-2613.	1.1	0
43	Constraints in Yang-Mills classical mechanics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 181, 321-323.	4.1	4
44	Exit Times in Non-Markovian Drifting Continuous-Time Random Walk Processes. SSRN Electronic Journal, 0, , .	0.4	0