

# Ana Navarro-Quiles

## List of Publications by Year in descending order

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32  
papers

226  
citations

1040056

9  
h-index

1058476

14  
g-index

32  
all docs

32  
docs citations

32  
times ranked

116  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive probabilistic solution of random SIS-type epidemiological models using the random variable transformation technique. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 32, 199-210.	3.3	45
2	Full solution of random autonomous first-order linear systems of difference equations. Application to construct random phase portrait for planar systems. <i>Applied Mathematics Letters</i> , 2017, 68, 150-156.	2.7	22
3	Computing probabilistic solutions of the Bernoulli random differential equation. <i>Journal of Computational and Applied Mathematics</i> , 2017, 309, 396-407.	2.0	17
4	Applying the random variable transformation method to solve a class of random linear differential equation with discrete delay. <i>Applied Mathematics and Computation</i> , 2019, 356, 198-218.	2.2	16
5	A comprehensive probabilistic analysis of approximate SIR-type epidemiological models via full randomized discrete-time Markov chain formulation with applications. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 8204-8222.	2.3	15
6	Uncertainty quantification analysis of the biological Gompertz model subject to random fluctuations in all its parameters. <i>Chaos, Solitons and Fractals</i> , 2020, 138, 109908.	5.1	13
7	Randomizing the parameters of a Markov chain to model the stroke disease: A technical generalization of established computational methodologies towards improving real applications. <i>Journal of Computational and Applied Mathematics</i> , 2017, 324, 225-240.	2.0	12
8	Computing the probability density function of non-autonomous first-order linear homogeneous differential equations with uncertainty. <i>Journal of Computational and Applied Mathematics</i> , 2018, 337, 190-208.	2.0	9
9	A full probabilistic solution of the random linear fractional differential equation via the random variable transformation technique. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 9037-9047.	2.3	9
10	Probabilistic solution of the homogeneous Riccati differential equation: A case-study by using linearization and transformation techniques. <i>Journal of Computational and Applied Mathematics</i> , 2016, 291, 20-35.	2.0	7
11	Some results about randomized binary Markov chains: theory, computing and applications. <i>International Journal of Computer Mathematics</i> , 2020, 97, 141-156.	1.8	7
12	(CMMSE2018 paper) Solving the random Pielou logistic equation with the random variable transformation technique: Theory and applications. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 5708-5717.	2.3	6
13	Analysis of random non-autonomous logistic-type differential equations via the Karhunen-Loève expansion and the Random Variable Transformation technique. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 72, 121-138.	3.3	6
14	Solving second-order linear differential equations with random analytic coefficients about ordinary points: A full probabilistic solution by the first probability density function. <i>Applied Mathematics and Computation</i> , 2018, 331, 33-45.	2.2	5
15	Solving the random Cauchy one-dimensional advection-diffusion equation: Numerical analysis and computing. <i>Journal of Computational and Applied Mathematics</i> , 2018, 330, 920-936.	2.0	5
16	Full probabilistic solution of a finite dimensional linear control system with random initial and final conditions. <i>Journal of the Franklin Institute</i> , 2020, 357, 8156-8180.	3.4	5
17	Computing the two first probability density functions of the random Cauchy-Euler differential equation: Study about regular-singular points. <i>Applied Mathematics and Nonlinear Sciences</i> , 2017, 2, 213-224.	1.6	4
18	Introducing randomness in the analysis of chemical reactions: An analysis based on random differential equations and probability density functions. <i>Computational and Mathematical Methods</i> , 2020, , e1141.	0.8	3

#	ARTICLE	IF	CITATIONS
19	Solving fully randomized first-order linear control systems: Application to study the dynamics of a damped oscillator with parametric noise under stochastic control. <i>Journal of Computational and Applied Mathematics</i> , 2022, 404, 113389.	2.0	3
20	A full probabilistic analysis of a randomized kinetic model for reactionâ€“deactivation of hydrogen peroxide decomposition with applications to real data. <i>Journal of Mathematical Chemistry</i> , 2021, 59, 1479.	1.5	3
21	Study of nonhomogeneous linear secondâ€“order discrete dynamical systems with uncertainties: Solution and stability with applications. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	2.3	3
22	Approximating the Solution Stochastic Process of the Random Cauchy One-Dimensional Heat Model. <i>Abstract and Applied Analysis</i> , 2016, 2016, 1-7.	0.7	2
23	A probabilistic analysis of a Beverton-Holt-type discrete model: Theoretical and computing analysis. <i>Computational and Mathematical Methods</i> , 2019, 1, e1013.	0.8	2
24	Analysing Differential Equations with Uncertainties via the Liouville-Gibbs Theorem: Theory and Applications. <i>Forum for Interdisciplinary Mathematics</i> , 2020, , 1-23.	1.6	2
25	Solving Random Ordinary and Partial Differential Equations Through the Probability Density Function: Theory and Computing with Applications. <i>Understanding Complex Systems</i> , 2019, , 261-282.	0.6	1
26	Probabilistic Study of the Effect of Anti-Epileptic Drugs Under Uncertainty: Cost-Effectiveness Analysis. <i>Mathematics</i> , 2020, 8, 1120.	2.2	1
27	Solving fully randomized higherâ€“order linear control differential equations: Application to study the dynamics of an oscillator. <i>Computational and Mathematical Methods</i> , 0, , e1163.	0.8	1
28	Un modelo de oferta y demanda con incertidumbre. <i>Modelling in Science Education and Learning</i> , 2019, 12, 111.	0.2	1
29	Probabilistic solution of a homogeneous linear second-order differential equation with randomized complex coefficients. <i>Probabilistic Engineering Mechanics</i> , 2022, 68, 103232.	2.7	1
30	First-order linear differential equations whose data are complex random variables: Probabilistic solution and stability analysis via densities. <i>AIMS Mathematics</i> , 2021, 7, 1486-1506.	1.6	0
31	Solving Second-Order Linear Differential Equations with Random Analytic Coefficients about Regular-Singular Points. <i>Mathematics</i> , 2020, 8, 230.	2.2	0
32	Effect of uncertain damping coefficient on the response of a SDOF system. <i>Probabilistic Engineering Mechanics</i> , 2022, 68, 103238.	2.7	0