Francisco Torres-Ruiz

List of Publications by Year
in descending order

51 papers	713 citations	471061 17 h-index	610482 24 g-index
52 all docs	52 docs citations	52 times ranked	319 citing authors

#	Article	IF	Citations
1	A new Gompertz-type diffusion process with application to random growth. Mathematical Biosciences, 2007, 208, 147-165.	0.9	50
2	First-passage-time densities for time-non-homogeneous diffusion processes. Journal of Applied Probability, 1997, 34, 623-631.	0.4	45
3	Inferring the effect of therapy on tumors showing stochastic Gompertzian growth. Journal of Theoretical Biology, 2011, 276, 67-77.	0.8	41
4	Modelling logistic growth by a new diffusion process: Application to biological systems. BioSystems, 2012, 110, 9-21.	0.9	37
5	Objective Testing Procedures in Linear Models: Calibration of the p-values. Scandinavian Journal of Statistics, 2006, 33, 765-784.	0.9	31
6	A diffusion process to model generalized von Bertalanffy growth patterns: Fitting to real data. Journal of Theoretical Biology, 2010, 263, 59-69.	0.8	31
7	A note on the Volterra integral equation for the first-passage-time probability density. Journal of Applied Probability, 1995, 32, 635-648.	0.4	30
8	Inference and first-passage-times for the lognormal diffusion process with exogenous factors: application to modelling in economics. Applied Stochastic Models in Business and Industry, 1999, 15, 325-332.	0.9	29
9	Estimating and determining the effect of a therapy on tumor dynamics by means of a modified Gompertz diffusion process. Journal of Theoretical Biology, 2015, 364, 206-219.	0.8	25
10	FORECASTING FOR THE UNIVARIATE LOGNORMAL DIFFUSION PROCESS WITH EXOGENOUS FACTORS. Cybernetics and Systems, 2003, 34, 709-724.	1.6	24
11	Testing equality of regression coefficients in heteroscedastic normal regression models. Journal of Statistical Planning and Inference, 2005, 131, 117-134.	0.4	22
12	A stochastic model related to the Richards-type growth curve. Estimation by means of simulated annealing and variable neighborhood search. Applied Mathematics and Computation, 2015, 266, 579-598.	1.4	22
13	INFERENCE IN GOMPERTZ-TYPE NONHOMOGENEOUS STOCHASTIC SYSTEMS BY MEANS OF DISCRETE SAMPLING. Cybernetics and Systems, 2005, 36, 203-216.	1.6	21
14	Inference on some parametric functions in the univeriate lognormal diffusion process with exogenous factors. Test, 2001, 10, 357-373.	0.7	20
15	On the effect of a therapy able to modify both the growth rates in a Gompertz stochastic model. Mathematical Biosciences, 2013, 245, 12-21.	0.9	20
16	Inference on a stochastic two-compartment model in tumor growth. Computational Statistics and Data Analysis, 2012, 56, 1723-1736.	0.7	19
17	A multiple regression method for estimating Li in tourmaline from electron microprobe analyses. Mineralogical Magazine, 2016, 80, 1129-1133.	0.6	19
18	Estimating the parameters of a Gompertz-type diffusion process by means of Simulated Annealing. Applied Mathematics and Computation, 2012, 218, 5121-5131.	1.4	18

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19	Applications of the multi-sigmoidal deterministic and stochastic logistic models for plant dynamics. Applied Mathematical Modelling, 2021, 92, 884-904.	2.2	15
20	Some Notes about Inference for the Lognormal Diffusion Process with Exogenous Factors. Mathematics, 2018, 6, 85.	1.1	14
21	First-passage-time location function: Application to determine first-passage-time densities in diffusion processes. Computational Statistics and Data Analysis, 2008, 52, 4132-4146.	0.7	12
22	A Stochastic Model of Cancer Growth Subject to an Intermittent Treatment with Combined Effects: Reduction in Tumor Size and Rise in Growth Rate. Bulletin of Mathematical Biology, 2014, 76, 2711-2736.	0.9	12
23	Estimating a non-homogeneous Gompertz process with jumps as model of tumor dynamics. Computational Statistics and Data Analysis, 2017, 107, 18-31.	0.7	12
24	A Note on Estimation of Multi-Sigmoidal Gompertz Functions with Random Noise. Mathematics, 2019, 7, 541.	1.1	12
25	Modeling oil production and its peak by means of a stochastic diffusion process based on the Hubbert curve. Energy, 2017, 133, 455-470.	4.5	12
26	An R package for an efficient approximation of first-passage-time densities for diffusion processes based on the FPTL function. Applied Mathematics and Computation, 2012, 218, 8408-8428.	1.4	10
27	A hyperbolastic type-I diffusion process: Parameter estimation by means of the firefly algorithm. BioSystems, 2018, 163, 11-22.	0.9	9
28	Inference on an heteroscedastic Gompertz tumor growth model. Mathematical Biosciences, 2020, 328, 108428.	0.9	8
29	Algorithm AS 309: Estimation in Multivariate Logâ€normal Diffusion Processes with Exogenous Factors. Journal of the Royal Statistical Society Series C: Applied Statistics, 1997, 46, 140-146.	0.5	7
30	TOURCOMP: A program for estimating end-member proportions in tourmalines. Mineralogical Magazine, 2008, 72, 1021-1034.	0.6	6
31	Intrinsic priors for model comparison in multivariate normal regression. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2011, 105, 273-289.	0.6	6
32	Inferring the effect of therapies on tumor growth by using diffusion processes. Journal of Theoretical Biology, 2012, 314, 34-56.	0.8	6
33	On the therapy effect for a stochastic growth Gompertz-type model. Mathematical Biosciences, 2012, 235, 148-160.	0.9	6
34	More general problems on first-passage times for diffusion processes: A new version of the fptdApprox R package. Applied Mathematics and Computation, 2014, 244, 432-446.	1.4	6
35	Forecasting Fruit Size and Caliber by Means of Diffusion Processes. Application to â€œValencia Lateâ€• Oranges. Journal of Agricultural, Biological, and Environmental Statistics, 2014, 19, 292-313.	0.7	6
36	Plantar Pressure Changes and Their Relationships with Low Back Pain during Pregnancy Using Instrumented Insoles. Journal of Sensors, 2019, 2019, 1-10.	0.6	6

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37	Study of a general growth model. Communications in Nonlinear Science and Numerical Simulation, 2022, 107, 106100.	1.7	6
38	Modeling tumor growth in the presence of a therapy with an effect on rate growth and variability by means of a modified Gompertz diffusion process. Journal of Theoretical Biology, 2016, 407, 1-17.	0.8	5
39	SOME TIME RANDOM VARIABLES RELATED TO A GOMPERTZ-TYPE DIFFUSION PROCESS. Cybernetics and Systems, 2008, 39, 467-479.	1.6	4
40	Hyperbolastic type-III diffusion process: Obtaining from the generalized Weibull diffusion process. Mathematical Biosciences and Engineering, 2020, 17, 814-833.	1.0	4
41	APPROXIMATING THE NONHOMOGENEOUS LOGNORMAL DIFFUSION PROCESS VIA POLYNOMIAL EXOGENOUS FACTORS. Cybernetics and Systems, 2006, 37, 293-309.	1.6	3
42	Approximate and generalized confidence bands for the mean and mode functions of the lognormal diffusion process. Computational Statistics and Data Analysis, 2007, 51, 4038-4053.	0.7	3
43	The Hubbert diffusion process: Estimation via simulated annealing and variable neighborhood search proceduresâ€"application to forecasting peak oil production. Applied Stochastic Models in Business and Industry, 2018, 34, 376-394.	0.9	3
44	Two Stochastic Differential Equations for Modeling Oscillabolastic-Type Behavior. Mathematics, 2020, 8, 155.	1.1	3
45	On a Non-homogeneous Gompertz-Type Diffusion Process: Inference and First Passage Time. Lecture Notes in Computer Science, 2018, , 47-54.	1.0	3
46	Fitting dynamic growth models of biological phenomena from sample observations through Gaussian diffusion processes. BioSystems, 2013, 112, 284-291.	0.9	2
47	Using First-Passage Times to Analyze Tumor Growth Delay. Mathematics, 2021, 9, 642.	1.1	2
48	Hyperbolastic Models from a Stochastic Differential Equation Point of View. Mathematics, 2021, 9, 1835.	1.1	2
49	Fitting real data by means of non-homogeneous log-normal diffusion processes. Statistics and Its Interface, 2017, 10, 585-600.	0.2	2
50	T-Growth Stochastic Model: Simulation and Inference via Metaheuristic Algorithms. Mathematics, 2021, 9, 959.	1.1	1
51	Two Multi-Sigmoidal Diffusion Models for the Study of the Evolution of the COVID-19 Pandemic. Mathematics, 2021, 9, 2409.	1.1	1