Jos M Angulo

List of Publications by Citations

84 papers	**906** citations	**17** h-index	**25** g-index
91 ext. papers	**997** ext. citations	**1.9** avg, IF	**4.06** L-index

#	Paper	IF	Citations
84	A length-biased version of the Birnbaum-Saunders distribution with application in water quality. *Stochastic Environmental Research and Risk Assessment*, **2009**, 23, 299-307	3.5	50
83	A multi-criteria Police Districting Problem for the efficient and effective design of patrol sector. *European Journal of Operational Research*, **2015**, 246, 674-684	5.6	49
82	Fractional diffusion and fractional heat equation. *Advances in Applied Probability*, **2000**, 32, 1077-1099	0.7	47
81	Fractional Generalized Random Fields of Variable Order. *Stochastic Analysis and Applications*, **2004**, 22, 775-799	1.1	46
80	Fractional Generalized Random Fields on Bounded Domains. *Stochastic Analysis and Applications*, **2003**, 21, 465-492	1.1	41
79	Fractional diffusion and fractional heat equation **2000**, 32, 1077-1099		36
78	A state-space model approach to optimum spatial sampling design based on entropy. *Environmental and Ecological Statistics*, **1998**, 5, 29-44	2.2	34
77	Spatiotemporal infectious disease modeling: a BME-SIR approach. *PLoS ONE*, **2013**, 8, e72168	3.7	27
76	Random perturbation methods applied to multivariate spatial sampling design. *Environmetrics*, **2001**, 12, 631-646	1.3	26
75	Stochastic fractional-order differential models with fractal boundary conditions. *Statistics and Probability Letters*, **2001**, 54, 47-60	0.6	20
74	Scaling limit solution of a fractional Burgers equation. *Stochastic Processes and Their Applications*, **2001**, 93, 285-300	1.1	20
73	Multifractal Dimensional Dependence Assessment Based on Tsallis Mutual Information. *Entropy*, **2015**, 17, 5382-5401	2.8	19
72	Fractional-order regularization and wavelet approximation to the inverse estimation problem for random fields. *Journal of Multivariate Analysis*, **2003**, 85, 192-216	1.4	19
71	A study on sampling design for optimal prediction of space-time stochastic processes. *Stochastic Environmental Research and Risk Assessment*, **2000**, 14, 412-427	3.5	19
70	Multi-resolution approximation to the stochastic inverse problem. *Advances in Applied Probability*, **1999**, 31, 1039-1057	0.7	18
69	Modeling of space-time infectious disease spread under conditions of uncertainty. *International Journal of Geographical Information Science*, **2012**, 26, 1751-1772	4.1	17
68	Spatio-temporal filtering using wavelets. *Stochastic Environmental Research and Risk Assessment*, **2002**, 16, 241-266	3.5	17

67	Optimal Spatial Sampling Design in a Multivariate Framework. *Mathematical Geosciences*, **1999**, 31, 507-525		17
66	An online spatiotemporal prediction model for dengue fever epidemic in Kaohsiung (Taiwan). *Biometrical Journal*, **2014**, 56, 428-40	1.5	16
65	Non-stationary spatial covariance structure estimation in oversampled domains by cluster differences scaling with spatial constraints. *Stochastic Environmental Research and Risk Assessment*, **2008**, 22, 95-106	3.5	16
64	Estimation and filtering of fractional generalised random fields. *Journal of the Australian Mathematical Society Series A Pure Mathematics and Statistics*, **2000**, 69, 336-361		16
63	Semi-parametric statistical approaches for space-time process prediction. *Environmental and Ecological Statistics*, **1998**, 5, 297-316	2.2	15
62	Fractional kinetic equations driven by Gaussian or infinitely divisible noise. *Advances in Applied Probability*, **2005**, 37, 366-392	0.7	15
61	A latent class MDS model with spatial constraints for non-stationary spatial covariance estimation. *Stochastic Environmental Research and Risk Assessment*, **2009**, 23, 769-779	3.5	14
60	FRACTIONAL RANDOM FIELDS ON DOMAINS WITH FRACTAL BOUNDARY. *Infinite Dimensional Analysis, Quantum Probability and Related Topics*, **2004**, 07, 395-417	0.6	14
59	Multifractality in space time statistical models. *Stochastic Environmental Research and Risk Assessment*, **2008**, 22, 81-86	3.5	13
58	Inference in lognormal multidimensional diffusion processes with exogenous factors: Application to modelling in economics. *Applied Stochastic Models and Data Analysis*, **1991**, 7, 295-316		13
57	Model-driven development of covariances for spatiotemporal environmental health assessment. *Environmental Monitoring and Assessment*, **2013**, 185, 815-31	3.1	12
56	Semiparametric estimation of spatial long-range dependence. *Journal of Statistical Planning and Inference*, **2008**, 138, 1479-1495	0.8	12
55	Diffusion on multifractals. *Nonlinear Analysis: Theory, Methods & Applications*, **2005**, 63, e2043-e2056	1.3	12
54	Generalized approaches to spatial sampling design. *Environmetrics*, **2005**, 16, 523-534	1.3	11
53	The Gaussian distribution revisited. *Advances in Applied Probability*, **1996**, 28, 500-524	0.7	11
52	Structural complexity in space time seismic event data. *Stochastic Environmental Research and Risk Assessment*, **2014**, 28, 1187-1206	3.5	10
51	Long-range dependence and second-order intermittency of two dimensional turbulence. *Environmental Modelling and Software*, **1998**, 13, 233-238	5.2	9
50	Kalman filtering from POP-based diagonalization of ARH(1). *Computational Statistics and Data Analysis*, **2007**, 51, 4994-5008	1.6	9

49	Functional stochastic modeling and prediction of spatiotemporal processes. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a		8
48	Covariance factorisation and abstract representation of generalised random fields. *Bulletin of the Australian Mathematical Society*, **2000**, 62, 319-334	0.4	8
47	Structural analysis of spatio-temporal threshold exceedances. *Environmetrics*, **2009**, 21, 415-438	1.3	7
46	Spatiotemporal generation of long-range dependence models and estimation. *Environmetrics*, **2006**, 17, 139-146	1.3	7
45	Estimation of intrinsic processes affected by additive fractal noise. *Journal of Multivariate Analysis*, **2006**, 97, 1361-1381	1.4	7
44	Joint estimation of spatial deformation and blurring in environmental data. *Stochastic Environmental Research and Risk Assessment*, **2005**, 19, 1-7	3.5	7
43	Multifractional Markov Processes in Heterogeneous Domains. *Stochastic Analysis and Applications*, **2010**, 29, 15-47	1.1	6
42	Functional estimation of spatiotemporal heterogeneities. *Environmetrics*, **2007**, 18, 775-792	1.3	6
41	Spatiotemporal random fields associated with stochastic fractional Helmholtz and heat equations. *Stochastic Environmental Research and Risk Assessment*, **2008**, 22, 3-13	3.5	6
40	Spatial and Spatiotemporal Karhunen-Loève-Type Representations on Fractal Domains. *Stochastic Analysis and Applications*, **2006**, 24, 195-219	1.1	6
39	Spatial threshold exceedance analysis through marked point processes. *Environmetrics*, **2012**, 23, 108-118	1.3	5
38	Non-extensive analysis of the seismic activity involving the 2011 volcanic eruption in El Hierro. *Spatial Statistics*, **2015**, 14, 208-221	2.2	5
37	Spectral-Marginal-Based Estimation of Spatiotemporal Long-Range Dependence. *Communications in Statistics - Theory and Methods*, **2008**, 38, 103-114	0.5	5
36	Wavelet-vaguelette decomposition of spatiotemporal random fields. *Stochastic Environmental Research and Risk Assessment*, **2007**, 21, 273-281	3.5	5
35	Synthesis of image deformation strategies. *Image and Vision Computing*, **2006**, 24, 1-12	3.7	5
34	Estimation and prediction of a 2D lognormal diffusion random field. *Stochastic Environmental Research and Risk Assessment*, **2005**, 19, 258-265	3.5	4
33	DIFFERENTIAL REPRESENTATION AND MARKOV PROPERTY OF GENERALIZED RANDOM FIELDS. *Stochastic Analysis and Applications*, **2001**, 19, 481-498	1.1	4
32	Stability analysis in nonstationary spatial covariance estimation. *Stochastic Environmental Research and Risk Assessment*, **2017**, 31, 815-828	3.5	3

31	A deformation/blurring-based spatio-temporal model. *Stochastic Environmental Research and Risk Assessment*, **2014**, 28, 1061-1073	3.5	3
30	Multifractal complexity analysis in space-time based on the generalized dimensions derivatives. *Spatial Statistics*, **2017**, 22, 469-480	2.2	3
29	Entropy-based correlated shrinkage of spatial random processes. *Stochastic Environmental Research and Risk Assessment*, **2011**, 25, 389-402	3.5	3
28	Wavelet-based functional reconstruction and extrapolation of fractional random fields. *Test*, **2004**, 13, 417-444	1.1	3
27	A study on sensitivity of spatial sampling designs to a priori discretization schemes. *Environmental Modelling and Software*, **2005**, 20, 891-902	5.2	3
26	Dependence Assessment Based on Generalized Relative Complexity: Application to Sampling Network Design. *Methodology and Computing in Applied Probability*, **2016**, 18, 921-933	0.6	3
25	New compactly supported spatiotemporal covariance functions from SPDEs. *Statistical Methods and Applications*, **2016**, 25, 125-141	0.8	2
24	Quantile-based spatiotemporal risk assessment of exceedances. *Stochastic Environmental Research and Risk Assessment*, **2018**, 32, 2275-2291	3.5	2
23	Divergence-Based Risk Measures: A Discussion on Sensitivities and Extensions. *Entropy*, **2019**, 21,	2.8	2
22	Effect of Data Transformations on Predictive Risk Indicators. *Methodology and Computing in Applied Probability*, **2012**, 14, 705-716	0.6	2
21	Parameter Estimation of Self-Similar Spatial Covariogram Models. *Communications in Statistics - Theory and Methods*, **2008**, 37, 1011-1023	0.5	2
20	Prediction and Conditional Simulation of a 2D Lognormal Diffusion Random Field. *Methodology and Computing in Applied Probability*, **2007**, 9, 413-423	0.6	2
19	A series expansion approach to the inverse problem. *Journal of Applied Probability*, **1998**, 35, 371-382	0.8	2
18	Multi-resolution approximation to the stochastic inverse problem. *Advances in Applied Probability*, **1999**, 31, 1039-1057	0.7	2
17	A series expansion approach to the inverse problem. *Journal of Applied Probability*, **1998**, 35, 371-382	0.8	2
16	Space-Time Metric Determination in Environmental Modeling. *Journal of Environmental Informatics*, **2017**,	3	2
15	Criteria for Multivariate Spatial Sampling Design Based on Covariance Matrix Perturbation. *Quantitative Geology and Geostatistics*, **1999**, 491-502		2
14	Point Pattern Analysis of Spatial Deformation and Blurring Effects on Exceedances. *Journal of Agricultural, Biological, and Environmental Statistics*, **2016**, 21, 512-530	1.9	2