

Montserrat Fuentes

List of Publications by Year in descending order

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58
papers

2,142
citations

304743

22
h-index

233421

45
g-index

64
all docs

64
docs citations

64
times ranked

2331
citing authors

#	ARTICLE	IF	CITATIONS
1	Model Evaluation and Spatial Interpolation by Bayesian Combination of Observations with Outputs from Numerical Models. <i>Biometrics</i> , 2005, 61, 36-45.	1.4	207
2	Approximate Likelihood for Large Irregularly Spaced Spatial Data. <i>Journal of the American Statistical Association</i> , 2007, 102, 321-331.	3.1	166
3	Bayesian Spatial Quantile Regression. <i>Journal of the American Statistical Association</i> , 2011, 106, 6-20.	3.1	155
4	A high frequency kriging approach for non-stationary environmental processes. <i>Environmetrics</i> , 2001, 12, 469-483.	1.4	122
5	Testing for separability of spatial-temporal covariance functions. <i>Journal of Statistical Planning and Inference</i> , 2006, 136, 447-466.	0.6	103
6	A Real-Time Hurricane Surface Wind Forecasting Model: Formulation and Verification. <i>Monthly Weather Review</i> , 2006, 134, 1355-1370.	1.4	102
7	Mesoscale variability of Sea-viewing Wide Field-of-view Sensor (SeaWiFS) satellite ocean color: Global patterns and spatial scales. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	96
8	Comparison of exposure estimation methods for air pollutants: Ambient monitoring data and regional air quality simulation. <i>Environmental Research</i> , 2012, 116, 1-10.	7.5	96
9	A multivariate semiparametric Bayesian spatial modeling framework for hurricane surface wind fields. <i>Annals of Applied Statistics</i> , 2007, 1, 249.	1.1	90
10	Maternal Exposure to Criteria Air Pollutants and Congenital Heart Defects in Offspring: Results from the National Birth Defects Prevention Study. <i>Environmental Health Perspectives</i> , 2014, 122, 863-872.	6.0	82
11	Bayesian entropy for spatial sampling design of environmental data. <i>Environmental and Ecological Statistics</i> , 2007, 14, 323-340.	3.5	79
12	Spatial-Temporal Modeling of the Association between Air Pollution Exposure and Preterm Birth: Identifying Critical Windows of Exposure. <i>Biometrics</i> , 2012, 68, 1157-1167.	1.4	68
13	A formal test for nonstationarity of spatial stochastic processes. <i>Journal of Multivariate Analysis</i> , 2005, 96, 30-54.	1.0	62
14	A class of nonseparable and nonstationary spatial temporal covariance functions. <i>Environmetrics</i> , 2008, 19, 487-507.	1.4	55
15	Spatial Association between Speciated Fine Particles and Mortality. <i>Biometrics</i> , 2006, 62, 855-863.	1.4	50
16	Interpolation of nonstationary air pollution processes: a spatial spectral approach. <i>Statistical Modelling</i> , 2002, 2, 281-298.	1.1	48
17	Nonparametric spatial models for extremes: application to extreme temperature data. <i>Extremes</i> , 2013, 16, 75-101.	1.0	45
18	Threshold Dependence of Mortality Effects for Fine and Coarse Particles in Phoenix, Arizona. <i>Journal of the Air and Waste Management Association</i> , 2000, 50, 1367-1379.	1.9	43

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19	Spatial-temporal association between fine particulate matter and daily mortality. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 2989-3000.	1.2	40
20	A comparative study of Gaussian geostatistical models and Gaussian Markov random field models. <i>Journal of Multivariate Analysis</i> , 2008, 99, 1681-1697.	1.0	36
21	Modeling and predicting complex space-time structures and patterns of coastal wind fields. <i>Environmetrics</i> , 2005, 16, 449-464.	1.4	34
22	Bayesian modeling for large spatial datasets. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2012, 4, 59-66.	3.9	25
23	Circular conditional autoregressive modeling of vector fields. <i>Environmetrics</i> , 2012, 23, 46-53.	1.4	23
24	Multivariate Spatial-Temporal Modeling and Prediction of Speciated Fine Particles. <i>Journal of Statistical Theory and Practice</i> , 2009, 3, 407-418.	0.5	22
25	Sensitivity Of Ecological Models To Their Climate Drivers: Statistical Ensembles For Forcing. , 2006, 16, 99-116.		21
26	Spatial Variable Selection Methods for Investigating Acute Health Effects of Fine Particulate Matter Components. <i>Biometrics</i> , 2015, 71, 167-177.	1.4	19
27	Bayesian multinomial probit modeling of daily windows of susceptibility for maternal PM _{2.5} exposure and congenital heart defects. <i>Statistics in Medicine</i> , 2016, 35, 2786-2801.	1.6	19
28	Fused Adaptive Lasso for Spatial and Temporal Quantile Function Estimation. <i>Technometrics</i> , 2016, 58, 127-137.	1.9	19
29	Bayesian spatial-temporal model for cardiac congenital anomalies and ambient air pollution risk assessment. <i>Environmetrics</i> , 2012, 23, 673-684.	1.4	18
30	Statistical issues in health impact assessment at the state and local levels. <i>Air Quality, Atmosphere and Health</i> , 2009, 2, 47-55.	3.3	16
31	Comparing exposure metrics for the effects of fine particulate matter on emergency hospital admissions. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2013, 23, 627-636.	3.9	16
32	Nonparametric Bayesian models for a spatial covariance. <i>Statistical Methodology</i> , 2012, 9, 265-274.	0.5	15
33	Estimating the Health Impact of Climate Change With Calibrated Climate Model Output. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2012, 17, 377-394.	1.4	13
34	Sampling and Statistical Considerations for Hydroacoustic Surveys Used in Estimating Abundance of Forage Fishes in Reservoirs. <i>North American Journal of Fisheries Management</i> , 2005, 25, 73-85.	1.0	12
35	Quantile regression for mixed models with an application to examine blood pressure trends in China. <i>Annals of Applied Statistics</i> , 2015, 9, 1226-1246.	1.1	12
36	Multilevel Quantile Function Modeling with Application to Birth Outcomes. <i>Biometrics</i> , 2015, 71, 508-519.	1.4	11

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37	Multi-element effects on arsenate accumulation in a geochemical matrix determined using $\hat{\mu}$ -XRF, $\hat{\mu}$ -XANES and spatial statistics. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1967-1979.	2.4	11
38	Multivariate spatial modeling of conditional dependence in microscale soil elemental composition data. <i>Spatial Statistics</i> , 2014, 9, 93-108.	1.9	10
39	Testing lack of symmetry in spatial-temporal processes. <i>Journal of Statistical Planning and Inference</i> , 2008, 138, 2847-2866.	0.6	9
40	Statistical assessment of geographic areas of compliance with air quality standards. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	8
41	Non-Gaussian and Nonparametric Models for Continuous Spatial Data. <i>Chapman & Hall/CRC Interdisciplinary Statistics Series</i> , 2010, , 149-167.	0.4	8
42	Spectral Domain. <i>Chapman & Hall/CRC Interdisciplinary Statistics Series</i> , 2010, , 57-77.	0.4	8
43	Multivariate spatial nonparametric modelling via kernel processes mixing. <i>Statistica Sinica</i> , 2013, 23, .	0.3	8
44	Calibration of Numerical Model Output Using Nonparametric Spatial Density Functions. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2011, 16, 531-553.	1.4	7
45	Trellis display for modeling data from designed experiments. <i>Statistical Analysis and Data Mining</i> , 2011, 4, 133-145.	2.8	6
46	Variable Selection for High Dimensional Bayesian Density Estimation: Application to Human Exposure Simulation. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2012, 61, 47-66.	1.0	5
47	The impact of population mobility on estimates of environmental exposure effects in a case-control study. <i>Statistics in Medicine</i> , 2020, 39, 1610-1622.	1.6	4
48	Spatial Bayesian Nonparametric Methods. , 2015, , 347-357.		4
49	Comments on: Assessing probabilistic forecasts of multivariate quantities, with an application to ensemble predictions of surface winds. <i>Test</i> , 2008, 17, 245-248.	1.1	3
50	Comparison of Distributional Statistics of Aquarius and Argo Sea Surface Salinity Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 103-118.	1.3	2
51	Partition-Based Nonstationary Covariance Estimation Using the Stochastic Score Approximation. <i>Journal of Computational and Graphical Statistics</i> , 2022, 31, 1025-1036.	1.7	2
52	Fixed-Domain Asymptotics for Variograms Using Subsampling. <i>Mathematical Geosciences</i> , 2001, 33, 679-691.	0.9	1
53	A non-stationary spatial model for temperature interpolation applied to the state of Rio de Janeiro. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2017, 66, 919-939.	1.0	1
54	Predicting integrals of diffusion processes with unknown diffusion parameters. <i>Stochastic and Stochastics Reports</i> , 2000, 69, 255-283.	0.6	0

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55	SMOOTH DENSITY SPATIAL QUANTILE REGRESSION. Statistica Sinica, 2021, 31, .	0.3	0
56	Hurricane Wind Fields, Multivariate Modeling. , 2008, , 448-461.		0
57	Hurricane Wind Fields, Multivariate Modeling. , 2016, , 1-17.		0
58	Hurricane Wind Fields, Multivariate Modeling. , 2017, , 878-894.		0