

Sudipto Banerjee

List of Publications by Year in descending order

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101
papers

5,834
citations

117453

34
h-index

98622

67
g-index

106
all docs

106
docs citations

106
times ranked

4252
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical Modeling and Analysis for Spatial Data. , 0, , .		724
2	Gaussian Predictive Process Models for Large Spatial Data Sets. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2008, 70, 825-848.	1.1	673
3	Spatial Modeling With Spatially Varying Coefficient Processes. Journal of the American Statistical Association, 2003, 98, 387-396.	1.8	430
4	Hierarchical Nearest-Neighbor Gaussian Process Models for Large Geostatistical Datasets. Journal of the American Statistical Association, 2016, 111, 800-812.	1.8	335
5	Nonstationary multivariate process modeling through spatially varying coregionalization. Test, 2004, 13, 263-312.	0.7	245
6	Frailty modeling for spatially correlated survival data, with application to infant mortality in Minnesota. Biostatistics, 2003, 4, 123-142.	0.9	194
7	Improving the performance of predictive process modeling for large datasets. Computational Statistics and Data Analysis, 2009, 53, 2873-2884.	0.7	168
8	spBayes : An <i>R</i> Package for Univariate and Multivariate Hierarchical Point-referenced Spatial Models. Journal of Statistical Software, 2007, 19, 1-24.	1.8	158
9	Generalized Hierarchical Multivariate CAR Models for Areal Data. Biometrics, 2005, 61, 950-961.	0.8	157
10	Flexible Cure Rate Modeling Under Latent Activation Schemes. Journal of the American Statistical Association, 2007, 102, 560-572.	1.8	136
11	Spatial process modelling for univariate and multivariate dynamic spatial data. Environmetrics, 2005, 16, 465-479.	0.6	118
12	On Geodetic Distance Computations in Spatial Modeling. Biometrics, 2005, 61, 617-625.	0.8	106
13	Linear Algebra and Matrix Analysis for Statistics. , 0, , .		85
14	spBayes for Large Univariate and Multivariate Point-Referenced Spatio-Temporal Data Models. Journal of Statistical Software, 2015, 63, .	1.8	85
15	Parametric Spatial Cure Rate Models for Interval-Censored Time-to-Relapse Data. Biometrics, 2004, 60, 268-275.	0.8	79
16	Order-Free Co-Regionalized Areal Data Models with Application to Multiple-Disease Mapping. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2007, 69, 817-838.	1.1	78
17	Rating Exposure Control Using Bayesian Decision Analysis. Journal of Occupational and Environmental Hygiene, 2006, 3, 568-581.	0.4	73
18	Nonseparable dynamic nearest neighbor Gaussian process models for large spatio-temporal data with an application to particulate matter analysis. Annals of Applied Statistics, 2016, 10, 1286-1316.	0.5	73

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19	Predicting tree biomass growth in the temperateâ€“boreal ecotone: Is tree size, age, competition, or climate response most important?. <i>Global Change Biology</i> , 2016, 22, 2138-2151.	4.2	71
20	Efficient Algorithms for Bayesian Nearest Neighbor Gaussian Processes. <i>Journal of Computational and Graphical Statistics</i> , 2019, 28, 401-414.	0.9	71
21	Working across space and time: nonstationarity in ecological research and application. <i>Frontiers in Ecology and the Environment</i> , 2021, 19, 66-72.	1.9	69
22	Semiparametric spatio-temporal frailty modeling. <i>Environmetrics</i> , 2003, 14, 523-535.	0.6	60
23	Directional Rates of Change Under Spatial Process Models. <i>Journal of the American Statistical Association</i> , 2003, 98, 946-954.	1.8	59
24	Semiparametric Proportional Odds Models for Spatially Correlated Survival Data. <i>Lifetime Data Analysis</i> , 2005, 11, 175-191.	0.4	56
25	Bayesian areal wombling via adjacency modeling. <i>Environmental and Ecological Statistics</i> , 2007, 14, 433-452.	1.9	53
26	Bayesian Wombling. <i>Journal of the American Statistical Association</i> , 2006, 101, 1487-1501.	1.8	46
27	High-Dimensional Bayesian Geostatistics. <i>Bayesian Analysis</i> , 2017, 12, 583-614.	1.6	45
28	Hierarchical Spatial Process Models for Multiple Traits in Large Genetic Trials. <i>Journal of the American Statistical Association</i> , 2010, 105, 506-521.	1.8	44
29	On nearestâ€“neighbor Gaussian process models for massive spatial data. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2016, 8, 162-171.	2.1	44
30	The Effect of Landscape Position on Biomass Crop Yield. <i>Agronomy Journal</i> , 2010, 102, 513-522.	0.9	43
31	Spatial Data Analysis. <i>Annual Review of Public Health</i> , 2016, 37, 47-60.	7.6	41
32	Hierarchical spatial models for predicting tree species assemblages across large domains. <i>Annals of Applied Statistics</i> , 2009, 3, 1052-1079.	0.5	39
33	Bayesian dynamic modeling for large space-time datasets using Gaussian predictive processes. <i>Journal of Geographical Systems</i> , 2012, 14, 29-47.	1.9	39
34	Comparison of Methods for Analyzing Left-Censored Occupational Exposure Data. <i>Annals of Occupational Hygiene</i> , 2014, 58, 1126-42.	1.9	39
35	Meta-Kriging: Scalable Bayesian Modeling and Inference for Massive Spatial Datasets. <i>Technometrics</i> , 2018, 60, 430-444.	1.3	39
36	Adaptive Gaussian predictive process models for large spatial datasets. <i>Environmetrics</i> , 2011, 22, 997-1007.	0.6	37

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37	Hierarchical Factor Models for Large Spatially Misaligned Data: A Low-Rank Predictive Process Approach. <i>Biometrics</i> , 2013, 69, 19-30.	0.8	36
38	Expert Judgment and Occupational Hygiene: Application to Aerosol Speciation in the Nickel Primary Production Industry. <i>Annals of Occupational Hygiene</i> , 2003, 47, 461-75.	1.9	34
39	Bayesian multivariate process modeling for prediction of forest attributes. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2008, 13, 60-83.	0.7	34
40	Bayesian Modeling and Analysis of Geostatistical Data. <i>Annual Review of Statistics and Its Application</i> , 2017, 4, 245-266.	4.1	34
41	Impact of gentrification on adult mental health. <i>Health Services Research</i> , 2020, 55, 432-444.	1.0	34
42	A Comparison of the \hat{I}^2 -Substitution Method and a Bayesian Method for Analyzing Left-Censored Data. <i>Annals of Occupational Hygiene</i> , 2016, 60, mev049.	1.9	33
43	Development of a total hydrocarbon ordinal job-exposure matrix for workers responding to the Deepwater Horizon disaster: The GuLF STUDY. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2018, 28, 223-230.	1.8	31
44	Multivariate Spatial Process Models. <i>Chapman & Hall/CRC Interdisciplinary Statistics Series</i> , 2010, , 495-515.	0.4	30
45	A Bayesian approach to multi-source forest area estimation. <i>Environmental and Ecological Statistics</i> , 2008, 15, 241-258.	1.9	28
46	A Hierarchical Model for Quantifying Forest Variables Over Large Heterogeneous Landscapes With Uncertain Forest Areas. <i>Journal of the American Statistical Association</i> , 2011, 106, 31-48.	1.8	28
47	Spatial Disease Mapping Using Directed Acyclic Graph Auto-Regressive (DAGAR) Models. <i>Bayesian Analysis</i> , 2019, 14, 1221-1244.	1.6	28
48	Bayesian Wombling for Spatial Point Processes. <i>Biometrics</i> , 2009, 65, 1243-1253.	0.8	26
49	Modeling temporal gradients in regionally aggregated California asthma hospitalization data. <i>Annals of Applied Statistics</i> , 2013, 7, 154-176.	0.5	26
50	Bayesian modeling for large spatial datasets. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2012, 4, 59-66.	2.1	25
51	Bivariate Left-Censored Bayesian Model for Predicting Exposure: Preliminary Analysis of Worker Exposure during the Deepwater Horizon Oil Spill. <i>Annals of Work Exposures and Health</i> , 2017, 61, 76-86.	0.6	25
52	Modeled Air Pollution from <i>In Situ</i> Burning and Flaring of Oil and Gas Released Following the <i>Deepwater Horizon</i> Disaster. <i>Annals of Work Exposures and Health</i> , 2022, 66, i172-i187.	0.6	25
53	Smoothed ANOVA with spatial effects as a competitor to MCAR in multivariate spatial smoothing. <i>Annals of Applied Statistics</i> , 2009, 3, 1805-1830.	0.5	24
54	Practical Bayesian modeling and inference for massive spatial data sets on modest computing environments. <i>Statistical Analysis and Data Mining</i> , 2019, 12, 197-209.	1.4	24

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55	Bayesian Modeling of Exposure and Airflow Using Two-Zone Models. <i>Annals of Occupational Hygiene</i> , 2009, 53, 409-24.	1.9	23
56	Parametric models for spatially correlated survival data for individuals with multiple cancers. <i>Statistics in Medicine</i> , 2008, 27, 2127-2144.	0.8	21
57	Bayesian Hierarchical Framework for Occupational Hygiene Decision Making. <i>Annals of Occupational Hygiene</i> , 2014, 58, 1079-93.	1.9	21
58	Elemental composition of fine and coarse particles across the greater Los Angeles area: Spatial variation and contributing sources. <i>Environmental Pollution</i> , 2022, 292, 118356.	3.7	21
59	Hierarchical Spatial Modeling of Additive and Dominance Genetic Variance for Large Spatial Trial Datasets. <i>Biometrics</i> , 2009, 65, 441-451.	0.8	20
60	Highly Scalable Bayesian Geostatistical Modeling via Meshed Gaussian Processes on Partitioned Domains. <i>Journal of the American Statistical Association</i> , 2022, 117, 969-982.	1.8	19
61	Estimates of Occupational Inhalation Exposures to Six Oil-Related Compounds on the Four Rig Vessels Responding to the <i>Deepwater Horizon</i> Oil Spill. <i>Annals of Work Exposures and Health</i> , 2022, 66, i89-i110.	0.6	19
62	Estimates of Inhalation Exposures to Oil-Related Components on the Supporting Vessels During the <i>Deepwater Horizon</i> Oil Spill. <i>Annals of Work Exposures and Health</i> , 2022, 66, i111-i123.	0.6	19
63	Gradients in Spatial Response Surfaces With Application to Urban Land Values. <i>Journal of Business and Economic Statistics</i> , 2006, 24, 77-90.	1.8	18
64	Bayesian spatially varying coefficient models in the spBayes R package. <i>Environmental Modelling and Software</i> , 2020, 125, 104608.	1.9	18
65	Estimates of Inhalation Exposures among Land Workers during the <i>Deepwater Horizon</i> Oil Spill Clean-up Operations. <i>Annals of Work Exposures and Health</i> , 2022, 66, i124-i139.	0.6	17
66	Using Real-Time Area VOC Measurements to Estimate Total Hydrocarbons Exposures to Workers Involved in the <i>Deepwater Horizon</i> Oil Spill. <i>Annals of Work Exposures and Health</i> , 2022, 66, i156-i171.	0.6	17
67	Bayesian hierarchical models for spatially misaligned data in R. <i>Methods in Ecology and Evolution</i> , 2014, 5, 514-523.	2.2	16
68	Linear Relationships Between Total Hydrocarbons and Benzene, Toluene, Ethylbenzene, Xylene, and n-Hexane during the Deepwater Horizon Response and Clean-up. <i>Annals of Work Exposures and Health</i> , 2021, , .	0.6	16
69	Modeling Complex Spatial Dependencies: Low-Rank Spatially Varying Cross-Covariances With Application to Soil Nutrient Data. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2013, 18, 274-298.	0.7	14
70	Methods for the Analysis of 26 Million VOC Area Measurements during the <i>Deepwater Horizon</i> Oil Spill Clean-up. <i>Annals of Work Exposures and Health</i> , 2022, 66, i140-i155.	0.6	13
71	Spatial Factor Models for High-Dimensional and Large Spatial Data: An Application in Forest Variable Mapping. <i>Statistica Sinica</i> , 2019, 29, 1155-1180.	0.2	13
72	Multivariate left-censored Bayesian modeling for predicting exposure using multiple chemical predictors. <i>Environmetrics</i> , 2018, 29, e2505.	0.6	12

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73	Multivariate spatial meta kriging. <i>Statistics and Probability Letters</i> , 2019, 144, 3-8.	0.4	12
74	Spatial factor modeling: A Bayesian matrix-normal approach for misaligned data. <i>Biometrics</i> , 2022, 78, 560-573.	0.8	12
75	Exposure Assessment Techniques Applied to the Highly Censored <i>Deepwater Horizon</i> Gulf Oil Spill Personal Measurements. <i>Annals of Work Exposures and Health</i> , 2022, 66, i56-i70.	0.6	11
76	Modeling massive spatial datasets using a conjugate Bayesian linear modeling framework. <i>Spatial Statistics</i> , 2020, 37, 100417.	0.9	9
77	High-dimensional multivariate geostatistics: A Bayesian matrix-normal approach. <i>Environmetrics</i> , 2021, 32, e2675.	0.6	9
78	Bayesian modeling and analysis for gradients in spatiotemporal processes. <i>Biometrics</i> , 2015, 71, 575-584.	0.8	8
79	Joint hierarchical models for sparsely sampled high-dimensional LiDAR and forest variables. <i>Remote Sensing of Environment</i> , 2017, 190, 149-161.	4.6	8
80	Improving Crop Model Inference Through Bayesian Melding With Spatially Varying Parameters. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2011, 16, 453-474.	0.7	7
81	Scalable inference for space-time Gaussian Cox processes. <i>Journal of Time Series Analysis</i> , 2019, 40, 269-287.	0.7	7
82	OUP accepted manuscript. <i>Annals of Work Exposures and Health</i> , 2022, 66, i23-i55.	0.6	7
83	Assessing Exposures from the <i>Deepwater Horizon</i> Oil Spill Response and Clean-up. <i>Annals of Work Exposures and Health</i> , 2022, 66, i3-i22.	0.6	7
84	Hierarchical multivariate directed acyclic graph autoregressive models for spatial diseases mapping. <i>Statistics in Medicine</i> , 2022, 41, 3057-3075.	0.8	7
85	Graphical Gaussian process models for highly multivariate spatial data. <i>Biometrika</i> , 2022, 109, 993-1014.	1.3	7
86	On identifiability and consistency of the nugget in Gaussian spatial process models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2021, 83, 1044.	1.1	6
87	Fine Particulate Matter and Lung Function among Burning-Exposed <i>Deepwater Horizon</i> Oil Spill Workers. <i>Environmental Health Perspectives</i> , 2022, 130, 27001.	2.8	6
88	Association of <i>Deepwater Horizon</i> Oil Spill Response and Cleanup Work With Risk of Developing Hypertension. <i>JAMA Network Open</i> , 2022, 5, e220108.	2.8	6
89	Bayesian Modeling for Physical Processes in Industrial Hygiene Using Misaligned Workplace Data. <i>Technometrics</i> , 2014, 56, 238-247.	1.3	5
90	Spatial Joint Species Distribution Modeling. <i>Statistica Sinica</i> , 2019, 29, 1127-1154.	0.2	5

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91	Spatial Difference Boundary Detection for Multiple Outcomes Using Bayesian Disease Mapping. <i>Biostatistics</i> , 2023, 24, 922-944.	0.9	5
92	Toward A Diagnostic Toolkit for Linear Models with Gaussian-Process Distributed Random Effects. <i>Biometrics</i> , 2018, 74, 863-873.	0.8	4
93	Coastline Kriging: A Bayesian Approach. <i>Annals of Work Exposures and Health</i> , 2018, 62, 818-827.	0.6	4
94	Bayesian inference for finite populations under spatial process settings. <i>Environmetrics</i> , 2020, 31, e2606.	0.6	4
95	B2Z : An R Package for Bayesian Two-Zone Models. <i>Journal of Statistical Software</i> , 2011, 43, .	1.8	3
96	Bayesian State Space Modeling of Physical Processes in Industrial Hygiene. <i>Technometrics</i> , 2020, 62, 147-160.	1.3	2
97	Bayesian high-dimensional regression for change point analysis. <i>Statistics and Its Interface</i> , 2019, 12, 253-264.	0.2	2
98	A nearest-neighbour Gaussian process spatial factor model for censored, multi-depth geochemical data. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 0, , .	0.5	1
99	Comments on: Inference for Size Demography From Point Pattern Data Using Integral Projection Models. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2012, 17, 678-681.	0.7	0
100	Comments on: Process modeling for slope and aspect with application to elevation data maps. <i>Test</i> , 2018, 27, 773-775.	0.7	0
101	Bayesian Spatial Modeling for Housing Data in South Africa. <i>Sankhya B</i> , 2021, 83, 395-414.	0.4	0