Sudipto Banerjee

List of Publications by Year
in descending order

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	Spatial Difference Boundary Detection for Multiple Outcomes Using Bayesian Disease Mapping. Biostatistics, 2023, 24, 922-944.	0.9	5
2	Highly Scalable Bayesian Geostatistical Modeling via Meshed Gaussian Processes on Partitioned Domains. Journal of the American Statistical Association, 2022, 117, 969-982.	1.8	19
3	Modeled Air Pollution from *In Situ* Burning and Flaring of Oil and Gas Released Following the *Deepwater Horizon* Disaster. Annals of Work Exposures and Health, 2022, 66, i172-i187.	0.6	25
4	Estimates of Occupational Inhalation Exposures to Six Oil-Related Compounds on the Four Rig Vessels Responding to the *Deepwater Horizon* Oil Spill. Annals of Work Exposures and Health, 2022, 66, i89-i110.	0.6	19
5	Spatial factor modeling: A Bayesian matrix-normal approach for misaligned data. Biometrics, 2022, 78, 560-573.	0.8	12
6	Estimates of Inhalation Exposures to Oil-Related Components on the Supporting Vessels During the *Deepwater Horizon* Oil Spill. Annals of Work Exposures and Health, 2022, 66, i111-i123.	0.6	19
7	Methods for the Analysis of 26 Million VOC Area Measurements during the *Deepwater Horizon* Oil Spill Clean-up. Annals of Work Exposures and Health, 2022, 66, i140-i155.	0.6	13
8	Exposure Assessment Techniques Applied to the Highly Censored *Deepwater Horizon* Gulf Oil Spill Personal Measurements. Annals of Work Exposures and Health, 2022, 66, i56-i70.	0.6	11
9	Estimates of Inhalation Exposures among Land Workers during the *Deepwater Horizon* Oil Spill Clean-up Operations. Annals of Work Exposures and Health, 2022, 66, i124-i139.	0.6	17
10	Using Real-Time Area VOC Measurements to Estimate Total Hydrocarbons Exposures to Workers Involved in the *Deepwater Horizon* Oil Spill. Annals of Work Exposures and Health, 2022, 66, i156-i171.	0.6	17
11	OUP accepted manuscript. Annals of Work Exposures and Health, 2022, 66, i23-i55.	0.6	7
12	Elemental composition of fine and coarse particles across the greater Los Angeles area: Spatial variation and contributing sources. Environmental Pollution, 2022, 292, 118356.	3.7	21
13	Assessing Exposures from the *Deepwater Horizon* Oil Spill Response and Clean-up. Annals of Work Exposures and Health, 2022, 66, i3-i22.	0.6	7
14	Fine Particulate Matter and Lung Function among Burning-Exposed *Deepwater Horizon* Oil Spill Workers. Environmental Health Perspectives, 2022, 130, 27001.	2.8	6
15	Association of Deepwater Horizon Oil Spill Response and Cleanup Work With Risk of Developing Hypertension. JAMA Network Open, 2022, 5, e220108.	2.8	6
16	Hierarchical multivariate directed acyclic graph autoregressive models for spatial diseases mapping. Statistics in Medicine, 2022, 41, 3057-3075.	0.8	7
17	Graphical Gaussian process models for highly multivariate spatial data. Biometrika, 2022, 109, 993-1014.	1.3	7
18	Bayesian Spatial Modeling for Housing Data in South Africa. Sankhya B, 2021, 83, 395-414.	0.4	0

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19	High‑dimensional multivariate geostatistics: A Bayesian matrix‑normal approach. Environmetrics, 2021, 32, e2675.	0.6	9
20	Working across space and time: nonstationarity in ecological research and application. Frontiers in Ecology and the Environment, 2021, 19, 66-72.	1.9	69
21	Linear Relationships Between Total Hydrocarbons and Benzene, Toluene, Ethylbenzene, Xylene, and n-Hexane during the Deepwater Horizon Response and Clean-up. Annals of Work Exposures and Health, 2021, , .	0.6	16
22	On identifiability and consistency of the nugget in Gaussian spatial process models. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2021, 83, 1044.	1.1	6
23	Bayesian State Space Modeling of Physical Processes in Industrial Hygiene. Technometrics, 2020, 62, 147-160.	1.3	2
24	Bayesian spatially varying coefficient models in the spBayes R package. Environmental Modelling and Software, 2020, 125, 104608.	1.9	18
25	Bayesian inference for finite populations under spatial process settings. Environmetrics, 2020, 31, e2606.	0.6	4
26	Impact of gentrification on adult mental health. Health Services Research, 2020, 55, 432-444.	1.0	34
27	Modeling massive spatial datasets using a conjugate Bayesian linear modeling framework. Spatial Statistics, 2020, 37, 100417.	0.9	9
28	Multivariate spatial meta kriging. Statistics and Probability Letters, 2019, 144, 3-8.	0.4	12
29	Practical Bayesian modeling and inference for massive spatial data sets on modest computing environments[â€]. Statistical Analysis and Data Mining, 2019, 12, 197-209.	1.4	24
30	Scalable inference for space‑time Gaussian Cox processes. Journal of Time Series Analysis, 2019, 40, 269-287.	0.7	7
31	Efficient Algorithms for Bayesian Nearest Neighbor Gaussian Processes. Journal of Computational and Graphical Statistics, 2019, 28, 401-414.	0.9	71
32	Spatial Disease Mapping Using Directed Acyclic Graph Auto-Regressive (DAGAR) Models. Bayesian Analysis, 2019, 14, 1221-1244.	1.6	28
33	Spatial Joint Species Distribution Modeling. Statistica Sinica, 2019, 29, 1127-1154.	0.2	5
34	Spatial Factor Models for High-Dimensional and Large Spatial Data: An Application in Forest Variable Mapping. Statistica Sinica, 2019, 29, 1155-1180.	0.2	13
35	Bayesian high-dimensional regression for change point analysis. Statistics and Its Interface, 2019, 12, 253-264.	0.2	2
36	Meta-Kriging: Scalable Bayesian Modeling and Inference for Massive Spatial Datasets. Technometrics, 2018, 60, 430-444.	1.3	39

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37	Toward A Diagnostic Toolkit for Linear Models with Gaussian-Process Distributed Random Effects. Biometrics, 2018, 74, 863-873.	0.8	4
38	Development of a total hydrocarbon ordinal job-exposure matrix for workers responding to the Deepwater Horizon disaster: The GuLF STUDY. Journal of Exposure Science and Environmental Epidemiology, 2018, 28, 223-230.	1.8	31
39	Comments on: Process modeling for slope and aspect with application to elevation data maps. Test, 2018, 27, 773-775.	0.7	0
40	Coastline Kriging: A Bayesian Approach. Annals of Work Exposures and Health, 2018, 62, 818-827.	0.6	4
41	Multivariate left-censored Bayesian modeling for predicting exposure using multiple chemical predictors. Environmetrics, 2018, 29, e2505.	0.6	12
42	Bayesian Modeling and Analysis of Geostatistical Data. Annual Review of Statistics and Its Application, 2017, 4, 245-266.	4.1	34
43	Bivariate Left-Censored Bayesian Model for Predicting Exposure: Preliminary Analysis of Worker Exposure during the Deepwater Horizon Oil Spill. Annals of Work Exposures and Health, 2017, 61, 76-86.	0.6	25
44	High-Dimensional Bayesian Geostatistics. Bayesian Analysis, 2017, 12, 583-614.	1.6	45
45	Joint hierarchical models for sparsely sampled high-dimensional LiDAR and forest variables. Remote Sensing of Environment, 2017, 190, 149-161.	4.6	8
46	A Comparison of the $\hat{I}^2$-Substitution Method and a Bayesian Method for Analyzing Left-Censored Data. Annals of Occupational Hygiene, 2016, 60, mev049.	1.9	33
47	On nearest-neighbor Gaussian process models for massive spatial data. Wiley Interdisciplinary Reviews: Computational Statistics, 2016, 8, 162-171.	2.1	44
48	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
49	Predicting tree biomass growth in the temperate–boreal ecotone: Is tree size, age, competition, or climate response most important?. Global Change Biology, 2016, 22, 2138-2151.	4.2	71
50	Spatial Data Analysis. Annual Review of Public Health, 2016, 37, 47-60.	7.6	41
51	Hierarchical Nearest-Neighbor Gaussian Process Models for Large Geostatistical Datasets. Journal of the American Statistical Association, 2016, 111, 800-812.	1.8	335
52	Bayesian modeling and analysis for gradients in spatiotemporal processes. Biometrics, 2015, 71, 575-584.	0.8	8
53	spBayes for Large Univariate and Multivariate Point-Referenced Spatio-Temporal Data Models. Journal of Statistical Software, 2015, 63, .	1.8	85
54	Bayesian Modeling for Physical Processes in Industrial Hygiene Using Misaligned Workplace Data. Technometrics, 2014, 56, 238-247.	1.3	5

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55	Comparison of Methods for Analyzing Left-Censored Occupational Exposure Data. Annals of Occupational Hygiene, 2014, 58, 1126-42.	1.9	39
56	Bayesian Hierarchical Framework for Occupational Hygiene Decision Making. Annals of Occupational Hygiene, 2014, 58, 1079-93.	1.9	21
57	Bayesian hierarchical models for spatially misaligned data in R. Methods in Ecology and Evolution, 2014, 5, 514-523.	2.2	16
58	Modeling Complex Spatial Dependencies: Low-Rank Spatially Varying Cross-Covariances With Application to Soil Nutrient Data. Journal of Agricultural, Biological, and Environmental Statistics, 2013, 18, 274-298.	0.7	14
59	Hierarchical Factor Models for Large Spatially Misaligned Data: A Low–Rank Predictive Process Approach. Biometrics, 2013, 69, 19-30.	0.8	36
60	Modeling temporal gradients in regionally aggregated California asthma hospitalization data. Annals of Applied Statistics, 2013, 7, 154-176.	0.5	26
61	Comments on: Inference for Size Demography From Point Pattern Data Using Integral Projection Models. Journal of Agricultural, Biological, and Environmental Statistics, 2012, 17, 678-681.	0.7	0
62	Bayesian modeling for large spatial datasets. Wiley Interdisciplinary Reviews: Computational Statistics, 2012, 4, 59-66.	2.1	25
63	Bayesian dynamic modeling for large space-time datasets using Gaussian predictive processes. Journal of Geographical Systems, 2012, 14, 29-47.	1.9	39
64	Improving Crop Model Inference Through Bayesian Melding With Spatially Varying Parameters. Journal of Agricultural, Biological, and Environmental Statistics, 2011, 16, 453-474.	0.7	7
65	Adaptive Gaussian predictive process models for large spatial datasets. Environmetrics, 2011, 22, 997-1007.	0.6	37
66	A Hierarchical Model for Quantifying Forest Variables Over Large Heterogeneous Landscapes With Uncertain Forest Areas. Journal of the American Statistical Association, 2011, 106, 31-48.	1.8	28
67	**B2Z**: An *R* Package for Bayesian Two-Zone Models. Journal of Statistical Software, 2011, 43, .	1.8	3
68	The Effect of Landscape Position on Biomass Crop Yield. Agronomy Journal, 2010, 102, 513-522.	0.9	43
69	Hierarchical Spatial Process Models for Multiple Traits in Large Genetic Trials. Journal of the American Statistical Association, 2010, 105, 506-521.	1.8	44
70	Multivariate Spatial Process Models. Chapman & Hall/CRC Interdisciplinary Statistics Series, 2010, , 495-515.	0.4	30
71	Bayesian Modeling of Exposure and Airflow Using Two-Zone Models. Annals of Occupational Hygiene, 2009, 53, 409-24.	1.9	23
72	Hierarchical Spatial Modeling of Additive and Dominance Genetic Variance for Large Spatial Trial Datasets. Biometrics, 2009, 65, 441-451.	0.8	20

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73	Bayesian Wombling for Spatial Point Processes. Biometrics, 2009, 65, 1243-1253.	0.8	26
74	Improving the performance of predictive process modeling for large datasets. Computational Statistics and Data Analysis, 2009, 53, 2873-2884.	0.7	168
75	Hierarchical spatial models for predicting tree species assemblages across large domains. Annals of Applied Statistics, 2009, 3, 1052-1079.	0.5	39
76	Smoothed ANOVA with spatial effects as a competitor to MCAR in multivariate spatial smoothing. Annals of Applied Statistics, 2009, 3, 1805-1830.	0.5	24
77	A Bayesian approach to multi-source forest area estimation. Environmental and Ecological Statistics, 2008, 15, 241-258.	1.9	28
78	Parametric models for spatially correlated survival data for individuals with multiple cancers. Statistics in Medicine, 2008, 27, 2127-2144.	0.8	21
79	Bayesian multivariate process modeling for prediction of forest attributes. Journal of Agricultural, Biological, and Environmental Statistics, 2008, 13, 60-83.	0.7	34
80	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
81	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
82	Flexible Cure Rate Modeling Under Latent Activation Schemes. Journal of the American Statistical Association, 2007, 102, 560-572.	1.8	136
83	Bayesian areal wombling via adjacency modeling. Environmental and Ecological Statistics, 2007, 14, 433-452.	1.9	53
84	**spBayes**: An *R* Package for Univariate and Multivariate Hierarchical Point-referenced Spatial Models. Journal of Statistical Software, 2007, 19, 1-24.	1.8	158
85	Gradients in Spatial Response Surfaces With Application to Urban Land Values. Journal of Business and Economic Statistics, 2006, 24, 77-90.	1.8	18
86	Bayesian Wombling. Journal of the American Statistical Association, 2006, 101, 1487-1501.	1.8	46
87	Rating Exposure Control Using Bayesian Decision Analysis. Journal of Occupational and Environmental Hygiene, 2006, 3, 568-581.	0.4	73
88	On Geodetic Distance Computations in Spatial Modeling. Biometrics, 2005, 61, 617-625.	0.8	106
89	Generalized Hierarchical Multivariate CAR Models for Areal Data. Biometrics, 2005, 61, 950-961.	0.8	157
90	Spatial process modelling for univariate and multivariate dynamic spatial data. Environmetrics, 2005, 16, 465-479.	0.6	118

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91	Semiparametric Proportional Odds Models for Spatially Correlated Survival Data. Lifetime Data Analysis, 2005, 11, 175-191.	0.4	56
92	Parametric Spatial Cure Rate Models for Interval–Censored Time–to–Relapse Data. Biometrics, 2004, 60, 268-275.	0.8	79
93	Nonstationary multivariate process modeling through spatially varying coregionalization. Test, 2004, 13, 263-312.	0.7	245
94	Semiparametric spatio-temporal frailty modeling. Environmetrics, 2003, 14, 523-535.	0.6	60
95	Spatial Modeling With Spatially Varying Coefficient Processes. Journal of the American Statistical Association, 2003, 98, 387-396.	1.8	430
96	Directional Rates of Change Under Spatial Process Models. Journal of the American Statistical Association, 2003, 98, 946-954.	1.8	59
97	Frailty modeling for spatially correlated survival data, with application to infant mortality in Minnesota. Biostatistics, 2003, 4, 123-142.	0.9	194
98	Expert Judgment and Occupational Hygiene: Application to Aerosol Speciation in the Nickel Primary Production Industry. Annals of Occupational Hygiene, 2003, 47, 461-75.	1.9	34
99	Linear Algebra and Matrix Analysis for Statistics. , 0, , .		85
100	Hierarchical Modeling and Analysis for Spatial Data. , 0, , .		724
101	A nearest–neighbour Gaussian process spatial factor model for censored, multi–depth geochemical data. Journal of the Royal Statistical Society Series C: Applied Statistics, 0, , .	0.5	1