

Noel A. Cressie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2526209/publications.pdf>

Version: 2024-02-01

321
papers

21,268
citations

26630

56
h-index

11607

135
g-index

363
all docs

363
docs citations

363
times ranked

14368
citing authors

#	ARTICLE	IF	CITATIONS
1	STATISTICS FOR SPATIAL DATA. Terra Nova, 1992, 4, 613-617.	2.1	1,919
2	The origins of kriging. Mathematical Geosciences, 1990, 22, 239-252.	0.9	1,249
3	Fitting variogram models by weighted least squares. Journal of the International Association for Mathematical Geology, 1985, 17, 563-586.	0.8	845
4	Robust estimation of the variogram: I. Journal of the International Association for Mathematical Geology, 1980, 12, 115-125.	0.8	739
5	Fixed Rank Kriging for Very Large Spatial Data Sets. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2008, 70, 209-226.	2.2	668
6	Classes of Nonseparable, Spatio-Temporal Stationary Covariance Functions. Journal of the American Statistical Association, 1999, 94, 1330-1339.	3.1	470
7	Accounting for uncertainty in ecological analysis: the strengths and limitations of hierarchical statistical modeling. Ecological Applications, 2009, 19, 553-570.	3.8	423
8	Multinomial Goodness-of-Fit Tests. Journal of the Royal Statistical Society Series B: Methodological, 1984, 46, 440-464.	0.7	421
9	Spatial prediction and ordinary kriging. Mathematical Geosciences, 1988, 20, 405-421.	0.9	403
10	Beyond Moran's I : Testing for Spatial Dependence Based on the Spatial Autoregressive Model. Geographical Analysis, 2007, 39, 357-375.	3.5	349
11	A dimension-reduced approach to space-time Kalman filtering. Biometrika, 1999, 86, 815-829.	2.4	335
12	Hierarchical Bayesian space-time models. Environmental and Ecological Statistics, 1998, 5, 117-154.	3.5	323
13	A method for evaluating bias in global measurements of CO ₂ total columns from space. Atmospheric Chemistry and Physics, 2011, 11, 12317-12337.	4.9	279
14	Spatial Modeling of Regional Variables. Journal of the American Statistical Association, 1989, 84, 393-401.	3.1	222
15	The Orbiting Carbon Observatory-2: first 18 months of science data products. Atmospheric Measurement Techniques, 2017, 10, 549-563.	3.1	180
16	How to Use the Two-Sample Test. Biometrical Journal, 1986, 28, 131-148.	1.0	173
17	Kriging Nonstationary Data. Journal of the American Statistical Association, 1986, 81, 625-634.	3.1	170
18	Long-Lead Prediction of Pacific SSTs via Bayesian Dynamic Modeling. Journal of Climate, 2000, 13, 3953-3968.	3.2	161

#	ARTICLE	IF	CITATIONS
19	Characterizing the manifest probabilities of latent trait models. <i>Psychometrika</i> , 1983, 48, 129-141.	2.1	150
20	Fixed Rank Filtering for Spatio-Temporal Data. <i>Journal of Computational and Graphical Statistics</i> , 2010, 19, 724-745.	1.7	137
21	Multivariable spatial prediction. <i>Mathematical Geosciences</i> , 1993, 25, 219-240.	0.9	132
22	Spatio-Temporal Statistics with R. , 0, , .		132
23	Posterior predictive model checks for disease mapping models. <i>Statistics in Medicine</i> , 2000, 19, 2377-2397.	1.6	126
24	Spatial Statistical Data Fusion for Remote Sensing Applications. <i>Journal of the American Statistical Association</i> , 2012, 107, 1004-1018.	3.1	124
25	Spatio-temporal prediction of snow water equivalent using the Kalman filter. <i>Computational Statistics and Data Analysis</i> , 1996, 22, 159-175.	1.2	118
26	Robust kriging? A proposal. <i>Journal of the International Association for Mathematical Geology</i> , 1984, 16, 3-18.	0.8	107
27	Statistics on Spheres.. <i>Journal of the American Statistical Association</i> , 1984, 79, 733.	3.1	107
28	Mean squared prediction error in the spatial linear model with estimated covariance parameters. <i>Annals of the Institute of Statistical Mathematics</i> , 1992, 44, 27-43.	0.8	107
29	Pearson's χ^2 and the Loglikelihood Ratio Statistic G^2 : A Comparative Review. <i>International Statistical Review</i> , 1989, 57, 19.	1.9	102
30	Spatial prediction on a river network. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2006, 11, 127-150.	1.4	101
31	Classes of Nonseparable, Spatio-Temporal Stationary Covariance Functions. <i>Journal of the American Statistical Association</i> , 1999, 94, 1330.	3.1	100
32	Modeling Poisson variables with positive spatial dependence. <i>Statistics and Probability Letters</i> , 1997, 35, 423-432.	0.7	98
33	Towards Resistant Geostatistics. , 1984, , 21-44.		97
34	Spatio-temporal smoothing and EM estimation for massive remote sensing data sets. <i>Journal of Time Series Analysis</i> , 2011, 32, 430-446.	1.2	96
35	Kriging Nonstationary Data. <i>Journal of the American Statistical Association</i> , 1986, 81, 625.	3.1	94
36	Spatial Data Analysis of Regional Counts. <i>Biometrical Journal</i> , 1989, 31, 699-719.	1.0	89

#	ARTICLE	IF	CITATIONS
37	Smoothing Regional Maps Using Empirical Bayes Predictors. <i>Geographical Analysis</i> , 1992, 24, 75-95.	3.5	88
38	A Space-Time Survival Point Process for a Longleaf Pine Forest in Southern Georgia. <i>Journal of the American Statistical Association</i> , 1994, 89, 1164-1174.	3.1	87
39	The Asymptotic Distribution of REML Estimators. <i>Journal of Multivariate Analysis</i> , 1993, 45, 217-233.	1.0	86
40	A Three-Dimensional Mapping of the Ocean Based on Environmental Data. <i>Oceanography</i> , 2017, 30, 90-103.	1.0	86
41	Geostatistics. <i>American Statistician</i> , 1989, 43, 197.	1.6	81
42	Fast, Resolution-Consistent Spatial Prediction of Global Processes From Satellite Data. <i>Journal of Computational and Graphical Statistics</i> , 2002, 11, 63-88.	1.7	81
43	A COMPARISON OF GEOSTATISTICAL METHODOLOGIES USED TO ESTIMATE SNOW WATER EQUIVALENT. <i>Journal of the American Water Resources Association</i> , 1996, 32, 267-278.	2.4	80
44	Hierarchical statistical modelling of influenza epidemic dynamics in space and time. <i>Statistics in Medicine</i> , 2002, 21, 2703-2721.	1.6	79
45	Prediction of Spatial Cumulative Distribution Functions Using Subsampling. <i>Journal of the American Statistical Association</i> , 1999, 94, 86-97.	3.1	75
46	Spatial Statistics in the Presence of Location Error with an Application to Remote Sensing of the Environment. <i>Statistical Science</i> , 2003, 18, 436.	2.8	75
47	On the logarithms of high-order spacings. <i>Biometrika</i> , 1976, 63, 343-355.	2.4	74
48	Bayesian hierarchical spatio-temporal smoothing for very large datasets. <i>Environmetrics</i> , 2012, 23, 94-107.	1.4	71
49	RELAXING ASSUMPTIONS IN THE ONE SAMPLE t -TEST. <i>The Australian Journal of Statistics</i> , 1980, 22, 143-153.	0.2	70
50	Flexible Spatial Models for Kriging and Cokriging Using Moving Averages and the Fast Fourier Transform (FFT). <i>Journal of Computational and Graphical Statistics</i> , 2004, 13, 265-282.	1.7	69
51	The Woolf plot is more reliable than the Scatchard plot in analysing data from hormone receptor assays. <i>The Journal of Steroid Biochemistry</i> , 1980, 13, 1317-1323.	1.1	65
52	On asymptotic distribution and asymptotic efficiency of least squares estimators of spatial variogram parameters. <i>Journal of Statistical Planning and Inference</i> , 2002, 103, 65-85.	0.6	65
53	Spatio-Temporal Data Fusion for Very Large Remote Sensing Datasets. <i>Technometrics</i> , 2014, 56, 174-185.	1.9	64
54	The Moment-Generating Function and Negative Integer Moments. <i>American Statistician</i> , 1981, 35, 148.	1.6	62

#	ARTICLE	IF	CITATIONS
55	Spatial prediction from networks. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1990, 7, 251-271.	3.5	61
56	A spatial analysis of multivariate output from regional climate models. <i>Annals of Applied Statistics</i> , 2011, 5, .	1.1	61
57	On the stability of the geostatistical method. <i>Mathematical Geosciences</i> , 1992, 24, 45-59.	0.9	60
58	The Construction of Multivariate Distributions from Markov Random Fields. <i>Journal of Multivariate Analysis</i> , 2000, 73, 199-220.	1.0	60
59	When are relative variograms useful in geostatistics?. <i>Journal of the International Association for Mathematical Geology</i> , 1985, 17, 693-702.	0.8	59
60	The Asymptotic Distribution of the Scan Statistic Under Uniformity. <i>Annals of Probability</i> , 1980, 8, 828.	1.8	58
61	Resistant and Exploratory Techniques for Use in Semivariogram Analyses. <i>Soil Science Society of America Journal</i> , 1986, 50, 868-875.	2.2	56
62	Asymptotics for REML estimation of spatial covariance parameters. <i>Journal of Statistical Planning and Inference</i> , 1996, 50, 327-341.	0.6	56
63	Bayesian Inference for the Spatial Random Effects Model. <i>Journal of the American Statistical Association</i> , 2011, 106, 972-983.	3.1	56
64	Statistical data fusion of multi-sensor AOD over the Continental United States. <i>Geocarto International</i> , 2014, 29, 48-64.	3.5	56
65	Asymptotic Properties of Estimators for the Parameters of Spatial Inhomogeneous Poisson Point Processes. <i>Advances in Applied Probability</i> , 1994, 26, 122-154.	0.7	55
66	Global statistical analysis of MISR aerosol data: a massive data product from NASA's Terra satellite. <i>Environmetrics</i> , 2007, 18, 665-680.	1.4	55
67	Dynamic graphics in a GIS: More examples using linked software. <i>Computers and Geosciences</i> , 1997, 23, 371-385.	4.2	54
68	Using temporal variability to improve spatial mapping with application to satellite data. <i>Canadian Journal of Statistics</i> , 2010, 38, 271-289.	0.9	54
69	A Transformation/Weighting Model for Estimating Michaelis-Menten Parameters. <i>Biometrics</i> , 1989, 45, 637.	1.4	53
70	An Approach to Statistical Spatial-Temporal Modeling of Meteorological Fields: Comment. <i>Journal of the American Statistical Association</i> , 1994, 89, 379.	3.1	53
71	Correction factors for unbiased, efficient estimation and prediction of biomass from log ^o allometric models. <i>Forest Ecology and Management</i> , 2013, 310, 375-381.	3.2	53
72	Analysing Data from Hormone-Receptor Assays. <i>Biometrics</i> , 1981, 37, 235.	1.4	52

#	ARTICLE	IF	CITATIONS
73	Spatial models for spatial statistics: some unification. <i>Journal of Vegetation Science</i> , 1993, 4, 441-452.	2.2	52
74	Image analysis with partially ordered markov models. <i>Computational Statistics and Data Analysis</i> , 1998, 29, 1-26.	1.2	52
75	Random Set Theory and Problems of Modeling. <i>SIAM Review</i> , 1987, 29, 557-574.	9.5	51
76	Spatio-Temporal Statistical Modeling of Livestock Waste in Streams. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 1997, 2, 24.	1.4	51
77	Nonparametric Hypothesis Testing for a Spatial Signal. <i>Journal of the American Statistical Association</i> , 2002, 97, 1122-1140.	3.1	51
78	A spatial model for multivariate lattice data. <i>Journal of Econometrics</i> , 2007, 140, 226-259.	6.5	51
79	Block Kriging for Lognormal Spatial Processes. <i>Mathematical Geosciences</i> , 2006, 38, 413-443.	0.9	49
80	Greenland Ice Sheet Mass Balance Reconstruction. Part I: Net Snow Accumulation (1600â€“2009). <i>Journal of Climate</i> , 2013, 26, 3919-3934.	3.2	49
81	On some properties of the scan statistic on the circle and the line. <i>Journal of Applied Probability</i> , 1977, 14, 272-283.	0.7	48
82	Using Spatial Considerations in the Analysis of Experiments. <i>Technometrics</i> , 1991, 33, 381-392.	1.9	48
83	The underlying structure of the direct linear plot with application to the analysis of hormone-receptor interactions. <i>The Journal of Steroid Biochemistry</i> , 1979, 11, 1173-1180.	1.1	47
84	Properties and interpretation of the woolf and scatchard plots in analysing data from steroid receptor assays. <i>The Journal of Steroid Biochemistry</i> , 1983, 19, 1407-1412.	1.1	46
85	Spatial Fayâ€“Herriot models for small area estimation with functional covariates. <i>Spatial Statistics</i> , 2014, 10, 27-42.	1.9	46
86	A Strong Limit Theorem for Random Sets. <i>Advances in Applied Probability</i> , 1978, 10, 36.	0.7	42
87	A central limit theorem for random sets. <i>Zeitschrift FÃ¼r Wahrscheinlichkeitstheorie Und Verwandte Gebiete</i> , 1979, 49, 37-47.	0.8	41
88	Dynamic multi-resolution spatial models. <i>Environmental and Ecological Statistics</i> , 2007, 14, 5-25.	3.5	41
89	An optimal statistic based on higher order gaps. <i>Biometrika</i> , 1979, 66, 619-627.	2.4	40
90	The statistical analysis of somatotype data. <i>American Journal of Physical Anthropology</i> , 1986, 29, 197-208.	2.1	40

#	ARTICLE	IF	CITATIONS
91	The Variance-Based Cross-Variogram: You Can Add Apples and Oranges. <i>Mathematical Geosciences</i> , 1998, 30, 789-799.	0.9	40
92	Spatial modeling of snow water equivalent using covariances estimated from spatial and geomorphic attributes. <i>Journal of Hydrology</i> , 1997, 190, 42-59.	5.4	39
93	On some properties of the scan statistic on the circle and the line. <i>Journal of Applied Probability</i> , 1977, 14, 272-283.	0.7	37
94	The Moment-Generating Function and Negative Integer Moments. <i>American Statistician</i> , 1981, 35, 148-150.	1.6	37
95	The moment generating function has its moments. <i>Journal of Statistical Planning and Inference</i> , 1986, 13, 337-344.	0.6	36
96	Spatial Modeling of Regional Variables. <i>Journal of the American Statistical Association</i> , 1989, 84, 393.	3.1	36
97	Mission CO ₂ Control: A Statistical Scientist's Role in Remote Sensing of Atmospheric Carbon Dioxide. <i>Journal of the American Statistical Association</i> , 2018, 113, 152-168.	3.1	35
98	A comparison of spatial predictors when datasets could be very large. <i>Statistics Surveys</i> , 2016, 10, .	11.3	34
99	Uncertainty and Spatial Linear Models for Ecological Data. , 2001, , 214-237.		34
100	Statistical analysis of small-area data based on independence, spatial, non-hierarchical, and hierarchical models. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 3016-3032.	1.2	33
101	Universal cokriging under intrinsic coregionalization. <i>Mathematical Geosciences</i> , 1994, 26, 205-226.	0.9	32
102	Conditional-mean least-squares fitting of Gaussian Markov random fields to Gaussian fields. <i>Computational Statistics and Data Analysis</i> , 2008, 52, 2794-2807.	1.2	32
103	THE MINIMUM OF HIGHER ORDER GAPS. <i>The Australian Journal of Statistics</i> , 1977, 19, 132-143.	0.2	31
104	Geostatistics. <i>American Statistician</i> , 1989, 43, 197-202.	1.6	31
105	Quantifying uncertainty for remote spectroscopy of surface composition. <i>Remote Sensing of Environment</i> , 2020, 247, 111898.	11.0	31
106	A Space-Time Survival Point Process for a Longleaf Pine Forest in Southern Georgia. <i>Journal of the American Statistical Association</i> , 1994, 89, 1164.	3.1	31
107	Overview: Estimating and reporting uncertainties in remotely sensed atmospheric composition and temperature. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 4393-4436.	3.1	31
108	A robust-resistant spatial analysis of soil water infiltration. <i>Water Resources Research</i> , 1987, 23, 911-917.	4.2	30

#	ARTICLE	IF	CITATIONS
109	A Spatial Analysis of Variance Applied to Soil-Water Infiltration. <i>Water Resources Research</i> , 1990, 26, 2695-2703.	4.2	30
110	Asymptotic Properties of Estimators for the Parameters of Spatial Inhomogeneous Poisson Point Processes. <i>Advances in Applied Probability</i> , 1994, 26, 122-154.	0.7	30
111	Patterns in spatial point locations: Local indicators of spatial association in a minefield with clutter. <i>Naval Research Logistics</i> , 2001, 48, 333-347.	2.2	30
112	A Hierarchical Statistical Framework for Emergent Constraints: Application to Snow-Albedo Feedback. <i>Geophysical Research Letters</i> , 2018, 45, 13,050.	4.0	30
113	A nonparametric view of generalized covariances for kriging. <i>Mathematical Geosciences</i> , 1987, 19, 425-449.	0.9	29
114	A Graphical Procedure for Determining Nonstationarity in Time Series. <i>Journal of the American Statistical Association</i> , 1988, 83, 1108-1116.	3.1	29
115	The Effect on Attribute Prediction of Location Uncertainty in Spatial Data. <i>Geographical Analysis</i> , 2002, 34, 262-285.	3.5	29
116	Prediction of nonlinear spatial functionals. <i>Journal of Statistical Planning and Inference</i> , 2003, 112, 3-41.	0.6	29
117	Bayesian learning and predictability in a stochastic nonlinear dynamical model. <i>Ecological Applications</i> , 2013, 23, 679-698.	3.8	29
118	Multivariate spatial covariance models: a conditional approach. <i>Biometrika</i> , 2016, 103, 915-935.	2.4	29
119	Median based covariogram estimators reduce bias. <i>Statistics and Probability Letters</i> , 1984, 2, 299-304.	0.7	28
120	Analysis of spatial point patterns using bundles of product density LISA functions. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2001, 6, 118-135.	1.4	28
121	Hierarchical modeling of count data with application to nuclear fall-out. <i>Environmental and Ecological Statistics</i> , 2003, 10, 179-200.	3.5	28
122	Finding large-scale spatial trends in massive, global, environmental datasets. <i>Environmetrics</i> , 2004, 15, 1-44.	1.4	28
123	Hierarchical statistical modeling of big spatial datasets using the exponential family of distributions. <i>Spatial Statistics</i> , 2013, 4, 14-44.	1.9	28
124	Spatial prediction and ordinary kriging. <i>Mathematical Geosciences</i> , 1989, 21, 493-494.	0.9	27
125	Improved Multivariate Prediction under a General Linear Model. <i>Journal of Multivariate Analysis</i> , 1993, 45, 56-72.	1.0	27
126	Calibrated spatial moving average simulations. <i>Statistical Modelling</i> , 2002, 2, 267-279.	1.1	27

#	ARTICLE	IF	CITATIONS
127	frk : An R Package for Spatial and Spatio-Temporal Prediction with Large Datasets. <i>Journal of Statistical Software</i> , 2021, 98, .	3.7	27
128	Power results for tests based on high-order gaps. <i>Biometrika</i> , 1978, 65, 214-218.	2.4	26
129	Loss Function Approaches to Predict a Spatial Quantile and Its Exceedance Region. <i>Technometrics</i> , 2008, 50, 216-227.	1.9	26
130	One-step estimation of spatial dependence parameters: Properties and extensions of the APLE statistic. <i>Journal of Multivariate Analysis</i> , 2012, 105, 68-84.	1.0	26
131	Simulation-Based Uncertainty Quantification for Estimating Atmospheric CO ₂ from Satellite Data. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2017, 5, 956-985.	2.0	25
132	M-estimation in the presence of unequal scale. <i>Statistica Neerlandica</i> , 1980, 34, 19-32.	1.6	24
133	Spatial modelling of snow water equivalent using airborne and ground-based snow data. <i>Environmetrics</i> , 1995, 6, 127-139.	1.4	24
134	Likelihood-based estimation for Gaussian MRFs. <i>Statistical Methodology</i> , 2005, 2, 1-16.	0.5	24
135	A note on the behaviour of the stable distributions for small index α . <i>Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete</i> , 1975, 33, 61-64.	0.8	23
136	Use of the one sample t-test in the real world. <i>Journal of Chronic Diseases</i> , 1984, 37, 107-114.	1.2	23
137	Limits of detection. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1994, 22, 161-163.	3.5	23
138	BAYESIAN SMOOTHING OF RATES IN SMALL GEOGRAPHIC AREAS*. <i>Journal of Regional Science</i> , 1995, 35, 659-673.	3.3	23
139	Nonparametric estimation of the variogram and its spectrum. <i>Biometrika</i> , 2011, 98, 775-789.	2.4	23
140	Combining Outputs from the North American Regional Climate Change Assessment Program by Using A Bayesian Hierarchical Model. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2012, 61, 291-313.	1.0	23
141	Using Spatial Considerations in the Analysis of Experiments. <i>Technometrics</i> , 1991, 33, 381.	1.9	23
142	A Spatial Statistical Analysis of Tumor Growth. <i>Journal of the American Statistical Association</i> , 1992, 87, 272-283.	3.1	22
143	A Fast, Optimal Spatial-Prediction Method for Massive Datasets. <i>Journal of the American Statistical Association</i> , 2005, 100, 1343-1357.	3.1	22
144	Prediction of Spatial Cumulative Distribution Functions Using Subsampling. <i>Journal of the American Statistical Association</i> , 1999, 94, 86.	3.1	22

#	ARTICLE	IF	CITATIONS
145	A Useful Empirical Bayes Identity. <i>Annals of Statistics</i> , 1982, 10, 625.	2.6	21
146	The VPRT: A Sequential Testing Procedure Dominating the SPRT. <i>Econometric Theory</i> , 1993, 9, 431-450.	0.7	21
147	Multivariate Spatial Data Fusion for Very Large Remote Sensing Datasets. <i>Remote Sensing</i> , 2017, 9, 142.	4.0	21
148	Analysis of the Time Distribution and Time Sequence of Behavioral Acts. <i>International Journal of Neuroscience</i> , 1988, 43, 35-51.	1.6	20
149	Empirical Bayes Estimation of Undercount in the Decennial Census. <i>Journal of the American Statistical Association</i> , 1989, 84, 1033-1044.	3.1	20
150	On Statistical Approaches to Generate Level 3 Products from Satellite Remote Sensing Retrievals. <i>Remote Sensing</i> , 2018, 10, 155.	4.0	20
151	New models for Markov random fields. <i>Journal of Applied Probability</i> , 1992, 29, 877-884.	0.7	19
152	Texture synthesis and pattern recognition for partially ordered Markov models. <i>Pattern Recognition</i> , 1999, 32, 1475-1505.	8.1	19
153	Mapping rates associated with polygons. <i>Journal of Geographical Systems</i> , 2000, 2, 61-69.	3.1	19
154	Model checking in loglinear models using $\dot{\mu}$ -divergences and MLEs. <i>Journal of Statistical Planning and Inference</i> , 2002, 103, 437-453.	0.6	19
155	The SAR Model for Very Large Datasets: A Reduced Rank Approach. <i>Econometrics</i> , 2015, 3, 317-338.	0.9	19
156	Regional Mapping of Incidence Rates Using Spatial Bayesian Models. <i>Medical Care</i> , 1993, 31, YS60-YS65.	2.4	18
157	Modeling dynamic controls on ice streams: a Bayesian statistical approach. <i>Journal of Glaciology</i> , 2008, 54, 705-714.	2.2	18
158	Hierarchical model building, fitting, and checking: a behind-the-scenes look at a Bayesian analysis of arsenic exposure pathways. <i>Bayesian Analysis</i> , 2009, 4, .	3.0	18
159	Bayesian source detection and parameter estimation of a plume model based on sensor network measurements. <i>Applied Stochastic Models in Business and Industry</i> , 2010, 26, 331-348.	1.5	18
160	High-Resolution Digital Soil Mapping: Kriging for Very Large Datasets. , 2010, , 49-63.		18
161	Hierarchical probability models and Bayesian analysis of mine locations. <i>Advances in Applied Probability</i> , 2000, 32, 315-330.	0.7	18
162	A statistical approach to identifying closed object boundaries in images. <i>Advances in Applied Probability</i> , 1994, 26, 831-854.	0.7	17

#	ARTICLE	IF	CITATIONS
163	A Sample-Size-Optimal Bayesian Procedure for Sequential Pharmaceutical Trials. <i>Biometrics</i> , 1994, 50, 700.	1.4	17
164	Bayesian Hierarchical ANOVA of Regional Climate-Change Projections from NARCCAP Phase II. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2013, 22, 3-15.	2.8	17
165	A finely tuned continuity correction. <i>Annals of the Institute of Statistical Mathematics</i> , 1978, 30, 435-442.	0.8	16
166	Kriging and Variogram Models. , 2009, , 49-55.		16
167	Comparing and selecting spatial predictors using local criteria. <i>Test</i> , 2015, 24, 1-28.	1.1	16
168	Playing Safe with Misweighted Means. <i>Journal of the American Statistical Association</i> , 1982, 77, 754-759.	3.1	15
169	Emergent constraints on tropical atmospheric aridityâ€”carbon feedbacks and the future of carbon sequestration. <i>Environmental Research Letters</i> , 2021, 16, 114008.	5.2	15
170	Statistical counterpoint: Knowledge discovery of choreographic information using spatio-temporal analysis and visualization. <i>Applied Geography</i> , 2010, 30, 548-560.	3.7	14
171	Statistical bias and variance for the regularized inverse problem: Application to space-based atmospheric CO2 retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5526-5537.	3.3	14
172	Conditionally Specified Gaussian Models for Spatial Statistical Analysis of Field Trials. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 1996, 1, 60.	1.4	13
173	Loss functions for estimation of extrema with an application to disease mapping. <i>Canadian Journal of Statistics</i> , 2003, 31, 251-266.	0.9	13
174	Multivariate Intrinsic Random Functions for Cokriging. <i>Mathematical Geosciences</i> , 2009, 41, 887-904.	2.4	13
175	Lognormal block kriging for contaminated soil. <i>European Journal of Soil Science</i> , 2011, 62, 337-345.	3.9	13
176	Empirical Hierarchical Modelling for Count Data using the Spatial Random Effects Model. <i>Spatial Economic Analysis</i> , 2013, 8, 389-418.	1.6	13
177	Rethinking soil carbon modelling: a stochastic approach to quantify uncertainties. <i>Environmetrics</i> , 2014, 25, 265-278.	1.4	13
178	Spatio-temporal bivariate statistical models for atmospheric trace-gas inversion. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 149, 227-241.	3.5	13
179	Predictive Inference for Big, Spatial, Nonâ€”Gaussian Data: MODIS Cloud Data and its Changeâ€”Support. <i>Australian and New Zealand Journal of Statistics</i> , 2016, 58, 15-45.	0.9	13
180	Sensitivity and uncertainty quantification for the ECOSTRESS evapotranspiration algorithm â€” DisALEXI. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 89, 102088.	2.8	13

#	ARTICLE	IF	CITATIONS
181	The VPRT: Optimal Sequential and Nonsequential Testing. , 1988, , 107-118.		13
182	Multiscale Graphical Modeling in Space: Applications to Command and Control. Lecture Notes in Statistics, 2001, , 83-113.	0.2	13
183	The Many Faces of Spatial Prediction. Quantitative Geology and Geostatistics, 1989, , 163-176.	0.1	13
184	Confidence regions in ternary diagrams based on the power-divergence statistics. Mathematical Geosciences, 1991, 23, 1045-1057.	0.9	12
185	A Loss function approach to identifying environmental exceedances. Extremes, 2005, 8, 143-159.	1.0	12
186	A Graphical Procedure for Determining Nonstationarity in Time Series. Journal of the American Statistical Association, 1988, 83, 1108.	3.1	12
187	Testing for the equality of two binomial proportions. Annals of the Institute of Statistical Mathematics, 1978, 30, 421-427.	0.8	11
188	Discussion of the paper by D.J. Brus and J.J. de Gruijter. Geoderma, 1997, 80, 45-59.	5.1	11
189	Inference for Spatial Processes Using Subsampling: a Simulation Study. Environmetrics, 1997, 8, 485-502.	1.4	11
190	From sources to biomarkers: A hierarchical Bayesian approach for human exposure modeling. Journal of Statistical Planning and Inference, 2007, 137, 3361-3379.	0.6	11
191	Deterministic/Stochastic Wavelet Decomposition for Recovery of Signal from Noisy Data. Technometrics, 2000, 42, 262.	1.9	11
192	Removing Nonadditivity from Two-Way Tables with One Observation per Cell. Biometrics, 1978, 34, 505.	1.4	10
193	The supremum distribution of another Gaussian process. Journal of Applied Probability, 1981, 18, 131-138.	0.7	10
194	New models for Markov random fields. Journal of Applied Probability, 1992, 29, 877-884.	0.7	10
195	11 Spatial statistical methods for environmental epidemiology. Handbook of Statistics, 2000, 18, 357-396.	0.6	10
196	Multiway Dependence in Exponential Family Conditional Distributions. Journal of Multivariate Analysis, 2001, 79, 171-190.	1.0	10
197	Non-Gaussian bivariate modelling with application to atmospheric trace-gas inversion. Spatial Statistics, 2016, 18, 194-220.	1.9	10
198	Playing Safe with Misweighted Means. Journal of the American Statistical Association, 1982, 77, 754.	3.1	10

#	ARTICLE	IF	CITATIONS
199	Bayesian Inference of Spatio-Temporal Changes of Arctic Sea Ice. <i>Bayesian Analysis</i> , 2020, 15, .	3.0	10
200	Empirical Bayes estimation in sampling inspection. <i>Biometrika</i> , 1985, 72, 451-458.	2.4	9
201	A likelihood-based comparison of temporal models for physical processes. <i>Statistical Analysis and Data Mining</i> , 2011, 4, 247-258.	2.8	9
202	Sensitivity of Optimal Estimation Satellite Retrievals to Misspecification of the Prior Mean and Covariance, with Application to OCO-2 Retrievals. <i>Remote Sensing</i> , 2019, 11, 2770.	4.0	9
203	A Spatial Statistical Analysis of Tumor Growth. <i>Journal of the American Statistical Association</i> , 1992, 87, 272.	3.1	9
204	Basis-Function Models in Spatial Statistics. <i>Annual Review of Statistics and Its Application</i> , 2022, 9, 373-400.	7.0	9
205	WOMBAT v1.0: a fully Bayesian global flux-inversion framework. <i>Geoscientific Model Development</i> , 2022, 15, 45-73.	3.6	9
206	Design considerations for neyman-pearson and wald hypothesis testing. <i>Metrika</i> , 1989, 36, 317-325.	0.8	8
207	Hierarchical probability models and Bayesian analysis of mine locations. <i>Advances in Applied Probability</i> , 2000, 32, 315-330.	0.7	8
208	A Hierarchical Approach to Covariance Function Estimation for Time Series. <i>Journal of Time Series Analysis</i> , 2001, 22, 253-266.	1.2	8
209	Spatial data compression via adaptive dispersion clustering. <i>Computational Statistics and Data Analysis</i> , 2018, 117, 138-153.	1.2	8
210	Modeling growth with random sets. <i>Lecture Notes-monograph Series / Institute of Mathematical Statistics</i> , 1991, , 31-45.	1.0	8
211	Detecting signals in FMRI data using powerful FDR procedures. <i>Statistics and Its Interface</i> , 2008, 1, 23-32.	0.3	8
212	A Comparison of the Cost-efficiencies of the Sequential, Group-sequential, and Variable-sample-size-sequential Probability Ratio Tests. <i>Scandinavian Journal of Statistics</i> , 1997, 24, 181-200.	1.4	7
213	Using hidden Markov chains and empirical Bayes change-point estimation for transect data. <i>Environmental and Ecological Statistics</i> , 1997, 4, 247-264.	3.5	7
214	Spatial-temporal nonlinear filtering based on hierarchical statistical models. <i>Test</i> , 2002, 11, 249-302.	1.1	7
215	Some Diagnostics for Markov Random Fields. <i>Journal of Computational and Graphical Statistics</i> , 2008, 17, 726-749.	1.7	7
216	Bayesian hierarchical statistical SIRS models. <i>Statistical Methods and Applications</i> , 2014, 23, 601-646.	1.2	7

#	ARTICLE	IF	CITATIONS
217	Inference for Errors-in-Variables Models in the Presence of Systematic Errors with an Application to a Satellite Remote Sensing Campaign. <i>Technometrics</i> , 2019, 61, 187-201.	1.9	7
218	Variance-Covariance Modeling and Estimation for Multi-Resolution Spatial Models. , 2004, , 319-330.		7
219	Spectral density estimation through a regularized inverse problem. <i>Statistica Sinica</i> , 2011, 21, 1115-1144.	0.3	7
220	Transformations and the Jackknife. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , 1981, 43, 177-182.	0.7	6
221	Models For Spatial Processes. <i>Methods in Experimental Physics</i> , 1994, , 93-124.	0.1	6
222	Optimal closed boundary identification in gray-scale imagery. <i>Journal of Mathematical Imaging and Vision</i> , 1995, 5, 179-205.	1.3	6
223	Ozone Exposure and Population Density in Harris County, Texas: Comment. <i>Journal of the American Statistical Association</i> , 1997, 92, 411.	3.1	6
224	Aggregation and interaction issues in statistical modeling of spatiotemporal processes. <i>Geoderma</i> , 1998, 85, 133-140.	5.1	6
225	Some results on constrained Bayes estimators. <i>Statistics and Probability Letters</i> , 2003, 65, 389-399.	0.7	6
226	Ecological Bias: Use of Maximum-Entropy Approximations. <i>Australian and New Zealand Journal of Statistics</i> , 2004, 46, 233-255.	0.9	6
227	Equilibrium dynamics of ice streams: a Bayesian statistical analysis. <i>Statistical Methods and Applications</i> , 2008, 17, 145-165.	1.2	6
228	Editorial: Special issue on time series in the environmental sciences. <i>Journal of Time Series Analysis</i> , 2011, 32, 337-338.	1.2	6
229	Multi-species SIR models from a dynamical Bayesian perspective. <i>Theoretical Ecology</i> , 2013, 6, 457-473.	1.0	6
230	Capturing Multivariate Spatial Dependence: Model, Estimate and then Predict. <i>Statistical Science</i> , 2015, 30, .	2.8	6
231	Hot Enough for You? A Spatial Exploratory and Inferential Analysis of North American Climate-Change Projections. <i>Mathematical Geosciences</i> , 2016, 48, 107-121.	2.4	6
232	Spatial analysis and visualization of global data on multi-resolution hexagonal grids. <i>Japanese Journal of Statistics and Data Science</i> , 2020, 3, 107-128.	1.2	6
233	Empirical Bayes Estimation of Undercount in the Decennial Census. <i>Journal of the American Statistical Association</i> , 1989, 84, 1033.	3.1	6
234	Dynamical random-set modeling of concentrated precipitation in North America. <i>Statistics and Its Interface</i> , 2012, 5, 169-181.	0.3	6

#	ARTICLE	IF	CITATIONS
235	Estimation of the integral of a stochastic process. Bulletin of the Australian Mathematical Society, 1978, 18, 83-93.	0.5	5
236	Random set limit theorems. Advances in Applied Probability, 1979, 11, 281-282.	0.7	5
237	COMBINING TWO UNBIASED ESTIMATORS OF A COMMON MEAN OF TWO NORMAL POPULATIONS. The Australian Journal of Statistics, 1991, 33, 43-56.	0.2	5
238	Directed Markov Point Processes as Limits of Partially Ordered Markov Models. Methodology and Computing in Applied Probability, 2000, 2, 5-21.	1.2	5
239	Comment: Hierarchical Statistical Modeling for Paleoclimate Reconstruction. Journal of the American Statistical Association, 2010, 105, 895-900.	3.1	5
240	Accelerated MCMC for Satellite-Based Measurements of Atmospheric CO ₂ . Remote Sensing, 2019, 11, 2061.	4.0	5
241	Testing for Activation in Data from fMRI Experiments. Journal of Data Science, 2006, 4, 275-289.	0.9	5
242	Some Dynamic Graphics for Spatial Data (with Multiple Attributes) in a GIS. , 1994, , 105-119.		5
243	Kriging for Cut-Offs and Other Difficult Problems. Quantitative Geology and Geostatistics, 2001, , 299-310.	0.1	5
244	Probabilistic evaluation of competing climate models. Advances in Statistical Climatology, Meteorology and Oceanography, 2017, 3, 93-105.	0.9	5
245	AN EMPIRICAL BAYES PROCEDURE FOR FINDING AN INTERVAL ESTIMATE. ETS Research Bulletin Series, 1971, 1971, i.	0.4	4
246	A statistical approach to identifying closed object boundaries in images. Advances in Applied Probability, 1994, 26, 831-854.	0.7	4
247	Sample-size-optimal sequential testing. Journal of Statistical Planning and Inference, 1994, 39, 305-327.	0.6	4
248	Jackknifing in the Presence of Inhomogeneity. Technometrics, 1997, 39, 45-51.	1.9	4
249	Transect-spacing design of ice cores on the Antarctic continent. Canadian Journal of Statistics, 1998, 26, 405-418.	0.9	4
250	Empirical Bayesian Spatial Prediction Using Wavelets. Lecture Notes in Statistics, 1999, , 203-222.	0.2	4
251	Spatial Point Process Models of Defensive Strategies: Detecting Changes. Statistical Inference for Stochastic Processes, 2006, 9, 31-46.	0.6	4
252	Comment: Statistical Dependence in Stream Networks. Journal of the American Statistical Association, 2010, 105, 18-21.	3.1	4

#	ARTICLE	IF	CITATIONS
253	Statistical properties of the state obtained by solving a nonlinear multivariate inverse problem. <i>Applied Stochastic Models in Business and Industry</i> , 2013, 29, 424-438.	1.5	4
254	Statistical properties of atmospheric greenhouse gas measurements: Looking down from space and looking up from the ground. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 162, 214-222.	3.5	4
255	Optimal Estimation Versus MCMC for CO_2 Retrievals. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2018, 23, 297-316.	1.4	4
256	Estimating Spatial Changes Over Time of Arctic Sea Ice using Hidden 2 \tilde{A} –2 Tables. <i>Journal of Time Series Analysis</i> , 2019, 40, 288-311.	1.2	4
257	Post hoc Uncertainty Quantification for Remote Sensing Observing Systems. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2021, 9, 1064-1093.	2.0	4
258	Robustness to Unequal Scale and Other Departures from the Classical Linear Model. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1991, , 65-113.	0.5	4
259	Synchronous Objects for One Flat Thing, reproduced. , 2009, , .		4
260	The supremum distribution of another Gaussian process. <i>Journal of Applied Probability</i> , 1981, 18, 131-138.	0.7	3
261	STATISTICAL METHODS FOR ESTIMATING NUMBERS OF CAPE FUR SEAL PUPS FROM AERIAL SURVEYS. <i>Marine Mammal Science</i> , 1987, 3, 297-307.	1.8	3
262	Bayesian hierarchical analysis of minefield data. , 1998, , .		3
263	Binary Markov Mesh Models and Symmetric Markov Random Fields: Some Results on their Equivalence. <i>Methodology and Computing in Applied Probability</i> , 2001, 3, 5-34.	1.2	3
264	Two-scale spatial models for binary data. <i>Statistical Methods and Applications</i> , 2018, 27, 1-24.	1.2	3
265	Effects of a Government-Academic Partnership: Has the NSF-CENSUS Bureau Research Network Helped Improve the US Statistical System?. <i>Journal of Survey Statistics and Methodology</i> , 2019, 7, 589-619.	1.2	3
266	A few statistical principles for data science. <i>Australian and New Zealand Journal of Statistics</i> , 2021, 63, 182.	0.9	3
267	Spatio-temporal hierarchical modeling of an infectious disease from (simulated) count data. , 2000, , 41-52.		3
268	Texture analysis using partially ordered Markov models. , 0, , .		2
269	<title>Spatial-temporal statistical approach to command and control problems in battlespace digitization</title>. , 2001, , .		2
270	Geostatistical prediction of spatial extremes and their extent. , 2005, , 27-37.		2

#	ARTICLE	IF	CITATIONS
271	Spatio-temporal modeling of sudden infant death syndrome data. <i>Statistical Methodology</i> , 2012, 9, 117-143.	0.5	2
272	Figures of merit for simultaneous inference and comparisons in simulation experiments. <i>Stat</i> , 2015, 4, 196-211.	0.4	2
273	Rejoinder on: Comparing and selecting spatial predictors using local criteria. <i>Test</i> , 2015, 24, 54-60.	1.1	2
274	The Atmospheric Infrared Sounder Retrieval, Revisited. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 1504-1507.	3.1	2
275	Great expectations and even greater exceedances from spatially referenced data. <i>Spatial Statistics</i> , 2020, 37, 100420.	1.9	2
276	PIC: Power Divergence Information Criterion. , 1996, , 3-14.		2
277	Geostatistical methods for mapping environmental exposures. , 2001, , 185-204.		2
278	Jackknifing in the Presence of Inhomogeneity. <i>Technometrics</i> , 1997, 39, 45.	1.9	2
279	Spatial Surface Reflectance Retrievals for Visible/Shortwave Infrared Remote Sensing via Gaussian Process Priors. <i>Remote Sensing</i> , 2022, 14, 2183.	4.0	2
280	From Many to One: Consensus Inference in a MIP. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
281	A two-dimensional random walk in the presence of a partially reflecting barrier. <i>Journal of Applied Probability</i> , 1974, 11, 199-205.	0.7	1
282	Random set limit theorems. <i>Advances in Applied Probability</i> , 1979, 11, 281-282.	0.7	1
283	CHARACTERIZING THE MANIFEST PROBABILITIES OF LATENT TRAIT MODELS*. <i>ETS Research Report Series</i> , 1981, 1981, i.	0.8	1
284	Census Undercount Adjustment and the Quality of Geographic Population Distributions: Comment. <i>Journal of the American Statistical Association</i> , 1987, 82, 980.	3.1	1
285	C326. Ergodicity for time series and spatial processes. <i>Journal of Statistical Computation and Simulation</i> , 1989, 32, 61-63.	1.2	1
286	<title>Markov pyramid models in image analysis</title>. , 1993, , .		1
287	Statistics for Spatial Data. <i>Technometrics</i> , 1994, 36, 437.	1.9	1
288	Temporal Analogues to SpatialK Functions. <i>Biometrical Journal</i> , 1995, 37, 351-373.	1.0	1

#	ARTICLE	IF	CITATIONS
289	Residuals Based Estimators of the Covariogram. <i>Statistics</i> , 1995, 26, 209-218.	0.6	1
290	Kriging and Variogram Models. , 2009, , 45-51.		1
291	â€˜Bayesian source detection and parameter estimation of a plume model based on sensor network measurementsâ€™ by C. Huang <i>et al</i> .: Rejoinder. <i>Applied Stochastic Models in Business and Industry</i> , 2010, 26, 360-361.	1.5	1
292	A diagonally weighted matrix norm between two covariance matrices. <i>Spatial Statistics</i> , 2019, 29, 316-328.	1.9	1
293	Comment: When Is It Data Science and When Is It Data Engineering?. <i>Journal of the American Statistical Association</i> , 2020, 115, 660-662.	3.1	1
294	Scene invariants for quantifying radiative transfer uncertainty. <i>Remote Sensing of Environment</i> , 2021, 260, 112432.	11.0	1
295	Posterior predictive model checks for disease mapping models. <i>Statistics in Medicine</i> , 2000, 19, 2377-2397.	1.6	1
296	[Size and Shape Spaces for Landmark Data in Two Dimensions]: Comment. <i>Statistical Science</i> , 1986, 1, .	2.8	1
297	A two-dimensional random walk in the presence of a partially reflecting barrier. <i>Journal of Applied Probability</i> , 1974, 11, 199-205.	0.7	0
298	Lecture Notes on Queueing Systems.. <i>Journal of the Royal Statistical Society Series A (General)</i> , 1977, 140, 97.	0.6	0
299	Asymptotics for Generalized Chi-Square Goodness-of-Fit Tests.. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 1989, 152, 258.	1.1	0
300	<title>Statistical image algebra: a Bayesian approach</title>. , 1991, , .		0
301	<title>Stochastic recognition of closed object boundaries in images</title>. , 1993, 2030, 240.		0
302	[Small Area Estimation: An Appraisal]: Comment. <i>Statistical Science</i> , 1994, 9, 76.	2.8	0
303	<title>Models and inference for clustering of locations of mines and minelike objects</title>. , 1997, , .		0
304	<title>Mine boundary detection using partially ordered Markov models</title>. , 1997, 3167, 152.		0
305	REPLY TO DISCUSSION by David C. Garen.. <i>Journal of the American Water Resources Association</i> , 1997, 33, 221-222.	2.4	0
306	Letter to the Editor. , 1999, 11, 433-434.		0

#	ARTICLE	IF	CITATIONS
307	Prediction of Spatial Cumulative Distribution Functions Using Subsampling: Rejoinder. Journal of the American Statistical Association, 1999, 94, 107.	3.1	0
308	Waypoint analysis for command and control. Naval Research Logistics, 2004, 51, 1045-1067.	2.2	0
309	Data Mining of MISR Aerosol Product using Spatial Statistics. , 2007, , .		0
310	Discussion on "Spatial prediction in the presence of positional error" Environmetrics, 2011, 22, 125-126.	1.4	0
311	A Bayesian multivariate analysis of children's exposure to pesticides. Environmetrics, 2013, 24, 357-366.	1.4	0
312	Comment on Article by Ferreira and Gamerman. Bayesian Analysis, 2015, 10, .	3.0	0
313	Measuring, mapping, and uncertainty quantification in the space-time cube. Revista Matematica Complutense, 2020, 33, 643-660.	1.2	0
314	Modeling Dependence in Spatio-Temporal Econometrics. , 2021, , 363-383.		0
315	False Discovery Rates to Detect Signals from Incomplete Spatially Aggregated Data. Journal of Computational and Graphical Statistics, 0, , 1-14.	1.7	0
316	Asymptotic Distribution of the Empirical Cumulative Distribution Function Predictor under Nonstationarity. Lecture Notes in Statistics, 2001, , 1-20.	0.2	0
317	Using Power-Divergence Statistics to Test for Homogeneity in Product-Multinomial Distributions. Understanding Complex Systems, 2011, , 157-175.	0.6	0
318	Object Identification Using Markov Random Field Segmentation Models at Multiple Resolutions of a Rectangular Lattice. Lecture Notes in Statistics, 1997, , 159-173.	0.2	0
319	Analysis of variability of tropical Pacific sea surface temperatures. Advances in Statistical Climatology, Meteorology and Oceanography, 2016, 2, 155-169.	0.9	0
320	A Statistical Analysis of the Jacobian in Retrievals of Satellite Data. , 2018, , 117-130.		0
321	Comment: When Is It Data Science and When Is It Data Engineering?. International Statistical Review, 2020, 88, S65.	1.9	0