

# Noel Cressie

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

7,388  
citations

201575

27  
h-index

223716

46  
g-index

54  
all docs

54  
docs citations

54  
times ranked

6372  
citing authors

#	ARTICLE	IF	CITATIONS
1	The origins of kriging. <i>Mathematical Geosciences</i> , 1990, 22, 239-252.	0.9	1,249
2	Fitting variogram models by weighted least squares. <i>Journal of the International Association for Mathematical Geology</i> , 1985, 17, 563-586.	0.7	845
3	Robust estimation of the variogram: I. <i>Journal of the International Association for Mathematical Geology</i> , 1980, 12, 115-125.	0.7	739
4	Fixed Rank Kriging for Very Large Spatial Data Sets. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2008, 70, 209-226.	1.1	668
5	Classes of Nonseparable, Spatio-Temporal Stationary Covariance Functions. <i>Journal of the American Statistical Association</i> , 1999, 94, 1330-1339.	1.8	470
6	Accounting for uncertainty in ecological analysis: the strengths and limitations of hierarchical statistical modeling. <i>Ecological Applications</i> , 2009, 19, 553-570.	1.8	423
7	Spatial prediction and ordinary kriging. <i>Mathematical Geosciences</i> , 1988, 20, 405-421.	0.9	403
8	Beyond Moran's $I$ : Testing for Spatial Dependence Based on the Spatial Autoregressive Model. <i>Geographical Analysis</i> , 2007, 39, 357-375.	1.9	349
9	Hierarchical Bayesian space-time models. <i>Environmental and Ecological Statistics</i> , 1998, 5, 117-154.	1.9	323
10	Spatial Modeling of Regional Variables. <i>Journal of the American Statistical Association</i> , 1989, 84, 393-401.	1.8	222
11	Kriging Nonstationary Data. <i>Journal of the American Statistical Association</i> , 1986, 81, 625-634.	1.8	170
12	Characterizing the manifest probabilities of latent trait models. <i>Psychometrika</i> , 1983, 48, 129-141.	1.2	150
13	Robust kriging? A proposal. <i>Journal of the International Association for Mathematical Geology</i> , 1984, 16, 3-18.	0.7	107
14	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.	0.5	107
15	Towards Resistant Geostatistics. , 1984, , 21-44.		97
16	Spatial Data Analysis of Regional Counts. <i>Biometrical Journal</i> , 1989, 31, 699-719.	0.6	89
17	Smoothing Regional Maps Using Empirical Bayes Predictors. <i>Geographical Analysis</i> , 1992, 24, 75-95.	1.9	88
18	Hierarchical statistical modelling of influenza epidemic dynamics in space and time. <i>Statistics in Medicine</i> , 2002, 21, 2703-2721.	0.8	79

#	ARTICLE	IF	CITATIONS
19	Bayesian hierarchical spatio-temporal smoothing for very large datasets. <i>Environmetrics</i> , 2012, 23, 94-107.	0.6	71
20	Spatial prediction from networks. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1990, 7, 251-271.	1.8	61
21	On the stability of the geostatistical method. <i>Mathematical Geosciences</i> , 1992, 24, 45-59.	0.9	60
22	When are relative variograms useful in geostatistics?. <i>Journal of the International Association for Mathematical Geology</i> , 1985, 17, 693-702.	0.7	59
23	Random Set Theory and Problems of Modeling. <i>SIAM Review</i> , 1987, 29, 557-574.	4.2	51
24	A spatial model for multivariate lattice data. <i>Journal of Econometrics</i> , 2007, 140, 226-259.	3.5	51
25	Using Spatial Considerations in the Analysis of Experiments. <i>Technometrics</i> , 1991, 33, 381-392.	1.3	48
26	Dynamic multi-resolution spatial models. <i>Environmental and Ecological Statistics</i> , 2007, 14, 5-25.	1.9	41
27	Uncertainty and Spatial Linear Models for Ecological Data. , 2001, , 214-237.		34
28	Geostatistics. <i>American Statistician</i> , 1989, 43, 197-202.	0.9	31
29	A nonparametric view of generalized covariances for kriging. <i>Mathematical Geosciences</i> , 1987, 19, 425-449.	0.9	29
30	The Effect on Attribute Prediction of Location Uncertainty in Spatial Data. <i>Geographical Analysis</i> , 2002, 34, 262-285.	1.9	29
31	Prediction of nonlinear spatial functionals. <i>Journal of Statistical Planning and Inference</i> , 2003, 112, 3-41.	0.4	29
32	Median based covariogram estimators reduce bias. <i>Statistics and Probability Letters</i> , 1984, 2, 299-304.	0.4	28
33	Hierarchical statistical modeling of big spatial datasets using the exponential family of distributions. <i>Spatial Statistics</i> , 2013, 4, 14-44.	0.9	28
34	One-step estimation of spatial dependence parameters: Properties and extensions of the APLE statistic. <i>Journal of Multivariate Analysis</i> , 2012, 105, 68-84.	0.5	26
35	A Useful Empirical Bayes Identity. <i>Annals of Statistics</i> , 1982, 10, 625.	1.4	21
36	Comparing and selecting spatial predictors using local criteria. <i>Test</i> , 2015, 24, 1-28.	0.7	16

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37	Loss functions for estimation of extrema with an application to disease mapping. Canadian Journal of Statistics, 2003, 31, 251-266.	0.6	13
38	Empirical Hierarchical Modelling for Count Data using the Spatial Random Effects Model. Spatial Economic Analysis, 2013, 8, 389-418.	0.8	13
39	The Many Faces of Spatial Prediction. Quantitative Geology and Geostatistics, 1989, , 163-176.	0.1	13
40	From sources to biomarkers: A hierarchical Bayesian approach for human exposure modeling. Journal of Statistical Planning and Inference, 2007, 137, 3361-3379.	0.4	11
41	11 Spatial statistical methods for environmental epidemiology. Handbook of Statistics, 2000, 18, 357-396.	0.4	10
42	Some Diagnostics for Markov Random Fields. Journal of Computational and Graphical Statistics, 2008, 17, 726-749.	0.9	7
43	Models For Spatial Processes. Methods in Experimental Physics, 1994, , 93-124.	0.1	6
44	Spatial Point Process Models of Defensive Strategies: Detecting Changes. Statistical Inference for Stochastic Processes, 2006, 9, 31-46.	0.4	4
45	Estimating Spatial Changes Over Time of Arctic Sea Ice using Hidden 2 $\tilde{A}$ —2 Tables. Journal of Time Series Analysis, 2019, 40, 288-311.	0.7	4
46	Spatio-temporal modeling of sudden infant death syndrome data. Statistical Methodology, 2012, 9, 117-143.	0.5	2
47	Kriging and Variogram Models. , 2009, , 45-51.		1
48	Measuring, mapping, and uncertainty quantification in the space-time cube. Revista Matematica Complutense, 2020, 33, 643-660.	0.7	0