Jun Zhu

List of Publications by Year
in descending order

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51 papers	2,002 citations	361296 20 h-index	265120 42 g-index
52 all docs	52 docs citations	52 times ranked	3593 citing authors

#	Article	IF	Citations
1	Positive biodiversity-productivity relationship predominant in global forests. Science, 2016, 354, .	6.0	864
2	Spatial Regression Models for Demographic Analysis. Population Research and Policy Review, 2008, 27, 17-42.	1.0	189
3	Statistics For Correlated Data: Phylogenies, Space, And Time. , 2006, 16, 20-32.		108
4	The number of tree species on Earth. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	86
5	Modeling spatial-temporal binary data using Markov random fields. Journal of Agricultural, Biological, and Environmental Statistics, 2005, 10, 212-225.	0.7	58
6	Movement-Based Estimation and Visualization of Space Use in 3D for Wildlife Ecology and Conservation. PLoS ONE, 2014, 9, e101205.	1.1	48
7	Spatial Heterogeneity and Soil Nitrogen Dynamics in a Burned Black Spruce Forest Stand: Distinct Controls at Different Scales. Biogeochemistry, 2005, 76, 517-537.	1.7	46
8	BEHAVIORAL RESPONSES TO REPEATED HUMAN INTRUSION BY BLACK-TAILED PRAIRIE DOGS (CYNOMYS) Tj ETQq0 0 0 rgBT /Overlock	0.6	41
9	Identifying Field Attributes that Predict Soybean Yield Using Random Forest Analysis. Agronomy Journal, 2016, 108, 637-646.	0.9	35
10	Effects of Climate and Sewer Condition on Virus Transport to Groundwater. Environmental Science & Technology, 2016, 50, 8497-8504.	4.6	32
11	Human and Bovine Viruses and Bacteria at Three Great Lakes Beaches: Environmental Variable Associations and Health Risk. Environmental Science & Technology, 2016, 50, 987-995.	4.6	31
12	Autologistic regression analysis of spatial-temporal binary data via Monte Carlo maximum likelihood. Journal of Agricultural, Biological, and Environmental Statistics, 2008, 13, 84-98.	0.7	28
13	Markov chain Monte Carlo for a Spatial-Temporal Autologistic Regression Model. Journal of Computational and Graphical Statistics, 2008, 17, 123-137.	0.9	26
14	Nonparametric Bayesian inference for the spectral density function of a random field. Biometrika, 2010, 97, 238-245.	1.3	25
15	Variation in Aboveground Cover Influences Soil Nitrogen Availability at Fine Spatial Scales Following Severe Fire in Subalpine Conifer Forests. Ecosystems, 2011, 14, 1081-1095.	1.6	25
16	Statistically-Estimated Tree Composition for the Northeastern United States at Euro-American Settlement. PLoS ONE, 2016, 11, e0150087.	1.1	25
17	A retrospective on the accuracy and precision of plotless forest density estimators in ecological studies. Ecosphere, 2018, 9, e02187.	1.0	24
18	Spatial-Temporal Modeling of Forest Gaps Generated by Colonization From Below- and Above-Ground Bark Beetle Species. Journal of the American Statistical Association, 2008, 103, 162-177.	1.8	23

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19	Spatial and temporal components of induced plant responses in the context of herbivore life history and impact on host. Functional Ecology, 2017, 31, 2034-2050.	1.7	23
20	Cluster detection of spatial regression coefficients. Statistics in Medicine, 2017, 36, 1118-1133.	0.8	23
21	Statistical inference for trends in spatiotemporal data. Remote Sensing of Environment, 2021, 266, 112678.	4.6	23
22	Variable selection in spatial regression via penalized least squares. Canadian Journal of Statistics, 2009, 37, 607-624.	0.6	21
23	Modeling the Dependence between Number of Trials and Success Probability in Betaâ€Binomialâ€“Poisson Mixture Distributions. Biometrics, 2003, 59, 955-961.	0.8	20
24	Comparison of spatial variables over subregions using a block bootstrap. Journal of Agricultural, Biological, and Environmental Statistics, 2004, 9, 91-104.	0.7	16
25	Influence of biophysical factors and differences in Ojibwe reservation versus Euro-American social histories on forest landscape change in northern Wisconsin, USA. Landscape Ecology, 2011, 26, 1165-1178.	1.9	14
26	Artificial intelligence and avian influenza: Using machine learning to enhance active surveillance for avian influenza viruses. Transboundary and Emerging Diseases, 2019, 66, 2537-2545.	1.3	14
27	A nonparametric procedure for analyzing repeated measures of spatially correlated data. Environmental and Ecological Statistics, 2004, 11, 431-443.	1.9	12
28	Relationships between conifer constitutive and inducible defenses against bark beetles change across levels of biological and ecological scale. Oikos, 2020, 129, 1093-1107.	1.2	12
29	Selection of Spatial-Temporal Lattice Models: Assessing the Impact of Climate Conditions on a Mountain Pine Beetle Outbreak. Journal of Agricultural, Biological, and Environmental Statistics, 2012, 17, 508-525.	0.7	11
30	A comprehensive analysis comparing linear and generalized linear models in detecting adaptive SNPs. Molecular Ecology Resources, 2021, 21, 733-744.	2.2	11
31	Bootstrapping the Empirical Distribution Function of a Spatial Process. Statistical Inference for Stochastic Processes, 2007, 10, 107-145.	0.4	9
32	Composite likelihood estimation for models of spatial ordinal data and spatial proportional data with zero/one values. Environmetrics, 2014, 25, 571-583.	0.6	9
33	A Multiresolution Tree-Structured Spatial Linear Model. Journal of Computational and Graphical Statistics, 2005, 14, 168-184.	0.9	8
34	On Estimation and Selection of Autologistic Regression Models via Penalized Pseudolikelihood. Journal of Agricultural, Biological, and Environmental Statistics, 2013, 18, 429-449.	0.7	8
35	Spatial multinomial regression models for nominal categorical data: a study of land cover in Northern Wisconsin, USA. Environmetrics, 2013, 24, 98-108.	0.6	8
36	Clustered spatioâ€temporal varying coefficient regression model. Statistics in Medicine, 2021, 40, 465-480.	0.8	8

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37	On the asymptotics of maximum likelihood estimation for spatial linear models on a lattice. Sankhya A, 2012, 74, 29-56.	0.4	6
38	Uncertainty of a detected spatial cluster in 1D: quantification and visualization. Stat, 2017, 6, 345-359.	0.3	5
39	Spatial Regression Analysis of Poverty in R. Spatial Demography, 2019, 7, 113-147.	0.4	5
40	Sampling Strategies for Accurate Hazard Mapping of Noise and Other Hazards Using Short-Duration Measurements. Annals of Work Exposures and Health, 2017, 61, 183-194.	0.6	4
41	On spline-based approaches to spatial linear regression for geostatistical data. Environmental and Ecological Statistics, 2020, 27, 175-202.	1.9	4
42	Composite likelihood approach to the regression analysis of spatial multivariate ordinal data and spatial compositional data with exact zero values. Environmental and Ecological Statistics, 2017, 24, 39-68.	1.9	3
43	On a Semiparametric Dataâ€Driven Nonlinear Model with Penalized Spatioâ€Temporal Lag Interactions. Journal of Time Series Analysis, 2019, 40, 327-342.	0.7	3
44	A heterogeneity measure for cluster identification with application to disease mapping. Biometrics, 2020, 76, 403-413.	0.8	3
45	Statistical tests for non-independent partitions of large autocorrelated datasets. MethodsX, 2022, 9, 101660.	0.7	3
46	Spatial process decomposition for quantitative imaging biomarkers using multiple images of varying shapes. Statistics in Medicine, 2021, 40, 1243-1261.	0.8	1
47	Sound source localization patterns and bilateral cochlear implants: Age at onset of deafness effects. PLoS ONE, 2022, 17, e0263516.	1.1	1
48	Spatio-Temporal Expanding Distance Asymptotic Framework for Locally Stationary Processes. Sankhya A, 2020, , 1.	0.4	0
49	Composite likelihood inference for ordinal periodontal data with replicated spatial patterns. Statistics in Medicine, 2021, 40, 5871-5893.	0.8	0
50	Large spatial data modeling and analysis: A Krylov subspace approach. Scandinavian Journal of Statistics, 2022, 49, 1115-1143.	0.9	0
51	Spatial Regression Analysis of Poverty in R. Spatial Demography, 2019, 7, 113-147.	0.0	0