

# Walter W Piegorsch

## List of Publications by Year in descending order

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141  
papers

3,486  
citations

218677

26  
h-index

175258

52  
g-index

162  
all docs

162  
docs citations

162  
times ranked

3381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-hierarchical logistic models and case-only designs for assessing susceptibility in population-based case-control studies. <i>Statistics in Medicine</i> , 1994, 13, 153-162.	1.6	441
2	A Sensitivity Analysis of the Social Vulnerability Index. <i>Risk Analysis</i> , 2008, 28, 1099-1114.	2.7	292
3	Full-coverage high-resolution daily PM2.5 estimation using MAIAC AOD in the Yangtze River Delta of China. <i>Remote Sensing of Environment</i> , 2017, 199, 437-446.	11.0	239
4	Risk management with expectiles. <i>European Journal of Finance</i> , 2017, 23, 487-506.	3.1	138
5	Maximum Likelihood Estimation for the Negative Binomial Dispersion Parameter. <i>Biometrics</i> , 1990, 46, 863.	1.4	135
6	Vulnerability of U.S. Cities to Environmental Hazards. <i>Journal of Homeland Security and Emergency Management</i> , 2007, 4, .	0.5	110
7	Some comments on potency measures in mutagenicity research.. <i>Environmental Health Perspectives</i> , 1994, 102, 91-94.	6.0	98
8	Study design and sample sizes for a lacI transgenic mouse mutation assay. <i>Environmental and Molecular Mutagenesis</i> , 1995, 25, 231-245.	2.2	75
9	Sources of variability in data from a lacI transgenic mouse mutation assay. <i>Environmental and Molecular Mutagenesis</i> , 1994, 23, 17-31.	2.2	67
10	The Ames test: The two-fold rule revisited. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1996, 369, 23-31.	1.2	60
11	Life-stage-specific toxicity of sediment-associated chlorpyrifos to a marine, infaunal copepod. <i>Environmental Toxicology and Chemistry</i> , 1996, 15, 1182-1188.	4.3	59
12	Calibrating MODIS aerosol optical depth for predicting daily PM2.5 concentrations via statistical downscaling. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2014, 24, 398-404.	3.9	59
13	Statistical approaches for analyzing mutational spectra: some recommendations for categorical data.. <i>Genetics</i> , 1994, 136, 403-416.	2.9	54
14	Detection of induced mitotic chromosome loss in <i>Saccharomyces cerevisiae</i> - an interlaboratory study. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1989, 224, 31-78.	1.2	49
15	Detection of oxidative DNA damage in isolated marine bivalve hemocytes using the comet assay and formamidopyrimidine glycosylase (Fpg). <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2003, 542, 15-22.	1.7	44
16	Benchmark Analysis for Quantifying Urban Vulnerability to Terrorist Incidents. <i>Risk Analysis</i> , 2007, 27, 1411-1425.	2.7	42
17	Confidence Bands for Low-Dose Risk Estimation with Quantal Response Data. <i>Biometrics</i> , 2003, 59, 1056-1062.	1.4	39
18	Statistical methods for analyzing developmental toxicity data. <i>Teratogenesis, Carcinogenesis, and Mutagenesis</i> , 1991, 11, 115-133.	0.8	36

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19	Developmental response of zygotes exposed to similar mutagens. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1991, 250, 439-446.	1.0	34
20	Construction of Exact Simultaneous Confidence Bands for a Simple Linear Regression Model. International Statistical Review, 2008, 76, 39-57.	1.9	33
21	Information-theoretic model-averaged benchmark dose analysis in environmental risk assessment. Environmetrics, 2013, 24, 143-157.	1.4	32
22	Sample sizes for improved binomial confidence intervals. Computational Statistics and Data Analysis, 2004, 46, 309-316.	1.2	31
23	Assessing overdispersion and dose-response in the male dominant lethal assay. Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology, 1992, 272, 35-58.	0.4	30
24	Low dose risk estimation via simultaneous statistical inferences. Journal of the Royal Statistical Society Series C: Applied Statistics, 2005, 54, 245-258.	1.0	30
25	Dynamic changes of RNA-sequencing expression for precision medicine: N-of-1-pathways Mahalanobis distance within pathways of single subjects predicts breast cancer survival. Bioinformatics, 2015, 31, i293-i302.	4.1	30
26	Exploring relationships between mutagenic and carcinogenic potencies. Mutation Research - Reviews in Genetic Toxicology, 1988, 196, 161-175.	2.9	29
27	Sources of variability in data from a positive selection lacZ transgenic mouse mutation assay: An interlaboratory study. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 1997, 388, 249-289.	1.7	28
28	The impact of model uncertainty on benchmark dose estimation. Environmetrics, 2012, 23, 706-716.	1.4	26
29	Maximum likelihood estimation for the negative binomial dispersion parameter. Biometrics, 1990, 46, 863-7.	1.4	25
30	The Existence of the First Negative Moment. American Statistician, 1985, 39, 60-62.	1.6	24
31	Influence of viral infections on body weight, survival, and tumor prevalence of B6C3F1 (C57BL/6N $\times$ 1/2) Tj ETQq1 1 0.784314 rgBT /Ola	1.8	24
32	Multiplicity-Adjusted Inferences in Risk Assessment: Benchmark Analysis with Quantal Response Data. Biometrics, 2005, 61, 277-286.	1.4	24
33	Ergonomic decision-making: A conceptual framework for experienced practitioners from backgrounds in industrial engineering and physical therapy. Applied Ergonomics, 2006, 37, 587-598.	3.1	24
34	On multivariate extensions of Conditional-Tail-Expectation. Insurance: Mathematics and Economics, 2014, 55, 272-282.	1.2	24
35	Statistical advances in environmental science. Statistical Science, 1998, 13, .	2.8	23
36	COMBINING ENVIRONMENTAL INFORMATION. II: ENVIRONMENTAL EPIDEMIOLOGY AND TOXICOLOGY. Environmetrics, 1996, 7, 309-324.	1.4	22

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37	Benchmark Dose Analysis via Nonparametric Regression Modeling. <i>Risk Analysis</i> , 2014, 34, 135-151.	2.7	21
38	Morphologic Alteration of Mouse Clara Cells Induced by Glycerol: Ultrastructural and Morphometric Studies. <i>Experimental Lung Research</i> , 1987, 12, 281-302.	1.2	20
39	Respiratory tract lesions in F344/N rats and B6C3F1 mice after inhalation exposure to 1,2-epoxybutane. <i>Toxicology</i> , 1988, 50, 69-82.	4.2	20
40	Complementary Log Regression for Generalized Linear Models. <i>American Statistician</i> , 1992, 46, 94-99.	1.6	20
41	Statistical modeling and analyses of a base-specific Salmonella mutagenicity assay. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2000, 467, 11-19.	1.7	20
42	COMBINING ENVIRONMENTAL INFORMATION. I: ENVIRONMENTAL MONITORING, MEASUREMENT AND ASSESSMENT. <i>Environmetrics</i> , 1996, 7, 299-308.	1.4	19
43	Concordance of Carcinogenic Response between Rodent Species: Potency Dependence and Potential Underestimation. <i>Risk Analysis</i> , 1992, 12, 115-121.	2.7	18
44	Nonparametric estimation of benchmark doses in environmental risk assessment. <i>Environmetrics</i> , 2012, 23, 717-728.	1.4	18
45	On certain transformations of Archimedean copulas: Application to the non-parametric estimation of their generators. <i>Dependence Modeling</i> , 2013, 1, 1-36.	0.5	17
46	Exact one-sided simultaneous confidence bands via Uusipaikka's method. <i>Annals of the Institute of Statistical Mathematics</i> , 2003, 55, 243-250.	0.8	16
47	Plug-in estimation of level sets in a non-compact setting with applications in multivariate risk theory. <i>ESAIM - Probability and Statistics</i> , 2013, 17, 236-256.	0.5	16
48	Bayesian model averaging for benchmark dose estimation. <i>Environmental and Ecological Statistics</i> , 2015, 22, 5-16.	3.5	16
49	Quantification of Toxic Response and the Development of the Median Effective Dose (Ed 50)â€”a Historical Perspective. <i>Toxicology and Industrial Health</i> , 1989, 5, 55-62.	1.4	15
50	Detection of induced mitotic chromosome loss in <i>Saccharomyces cerevisiae</i> â€” An interlaboratory assessment of 12 chemicals. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1990, 241, 225-242.	1.2	15
51	Benchmark Analysis: Shopping with Proper Confidence. <i>Risk Analysis</i> , 2005, 25, 913-920.	2.7	15
52	Analysis of aggregated cellâ€”cell statistical distances within pathways unveils therapeutic-resistance mechanisms in circulating tumor cells. <i>Bioinformatics</i> , 2016, 32, i80-i89.	4.1	15
53	The Potential Impact of Satellite-Retrieved Cloud Parameters on Ground-Level PM2.5 Mass and Composition. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1244.	2.6	15
54	Quantitative approaches for assessing chromosome loss in <i>Saccharomyces cerevisiae</i> : general methods for analyzing downturns in dose response. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1989, 224, 11-29.	1.2	14

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55	Simultaneous confidence bands for Abbott-adjusted quantal response models in benchmark analysis. <i>Statistical Methodology</i> , 2008, 5, 209-219.	0.5	14
56	The detection of mitotic and meiotic chromosome gain in the yeast <i>Saccharomyces cerevisiae</i> : Effects of methyl benzimidazol-2-yl carbamate, methyl methanesulfonate, ethyl methanesulfonate, dimethyl sulfoxide, propionitrile and cyclophosphamide monohydrate. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1990, 242, 231-258.	1.2	13
57	Large-sample pairwise comparisons among multinomial proportions with an application to analysis of mutant spectra. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2001, 6, 305-325.	1.4	13
58	Bootstrap goodness-of-fit test for the beta-binomial model. <i>Journal of Applied Statistics</i> , 2001, 28, 561-571.	1.3	13
59	Confidence limits on one-stage model parameters in benchmark risk assessment. <i>Environmental and Ecological Statistics</i> , 2009, 16, 53-62.	3.5	13
60	Testing for differentially expressed genetic pathways with single-subject N-of-1 data in the presence of inter-gene correlation. <i>Statistical Methods in Medical Research</i> , 2018, 27, 3797-3813.	1.5	13
61	Average-Width Optimality for Confidence Bands in Simple Linear Regression. <i>Journal of the American Statistical Association</i> , 1985, 80, 692-697.	3.1	12
62	Exploring Simple Independent Action in Multifactor Tables of Proportions. <i>Biometrics</i> , 1988, 44, 595.	1.4	12
63	Quantitative methods for assessing a synergistic or potentiated genotoxic response. <i>Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology</i> , 1989, 216, 1-8.	0.4	12
64	Biometrical methods for testing dose effects of environmental stimuli in laboratory studies. <i>Environmetrics</i> , 1993, 4, 483-505.	1.4	12
65	On a Likelihood-Based Goodness-of-Fit Test of the Beta-Binomial Model. <i>Biometrics</i> , 2000, 56, 947-949.	1.4	12
66	SIMULTANEOUS CONFIDENCE BOUNDS FOR LOW-DOSE RISK ASSESSMENT WITH NONQUANTAL DATA. <i>Journal of Biopharmaceutical Statistics</i> , 2004, 15, 17-31.	0.8	12
67	Spatial cluster detection of regression coefficients in a mixed-effects model. <i>Environmetrics</i> , 2020, 31, e2578.	1.4	12
68	Optimal design allocations for estimating area under curves for studies employing destructive sampling. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1989, 17, 493-507.	0.6	11
69	Fisher's Contributions to Genetics and Heredity, with Special Emphasis on the Gregor Mendel Controversy. <i>Biometrics</i> , 1990, 46, 915.	1.4	11
70	Optimal statistical design for toxicokinetic studies. <i>Statistical Methods in Medical Research</i> , 1997, 6, 359-376.	1.5	11
71	Benchmark Dose Profiles for Joint Action Quantal Data in Quantitative Risk Assessment. <i>Biometrics</i> , 2012, 68, 1313-1322.	1.4	11
72	Testing for Simple Independent Action between Two Factors for Dichotomous Response Data. <i>Biometrics</i> , 1986, 42, 413.	1.4	10

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73	Empirical Bayes Estimation for Logistic Regression and Extended Parametric Regression Models. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 1996, 1, 231.	1.4	10
74	From Quantal Counts to Mechanisms and Systems: The Past, Present, and Future of Biometrics in Environmental Toxicology. <i>Biometrics</i> , 2000, 56, 327-336.	1.4	10
75	On use of the multistage dose-response model for assessing laboratory animal carcinogenicity. <i>Regulatory Toxicology and Pharmacology</i> , 2007, 48, 135-147.	2.7	10
76	Application of Bayesian Additive Regression Trees for Estimating Daily Concentrations of PM2.5 Components. <i>Atmosphere</i> , 2020, 11, 1233.	2.3	10
77	Admissible and Optimal Confidence Bands in Simple Linear Regression. <i>Annals of Statistics</i> , 1985, 13, 801.	2.6	9
78	Multiplicity-adjusted Inferences in Risk Assessment: Benchmark Analysis with Continuous Response Data. <i>Environmental and Ecological Statistics</i> , 2006, 13, 125-141.	3.5	9
79	Model Uncertainty in Environmental Dose-Response Risk Analysis. <i>Statistics and Public Policy (Philadelphia, Pa )</i> , 2014, 1, 78-85.	1.6	9
80	Bootstrap methods for simultaneous benchmark analysis with quantal response data. <i>Environmental and Ecological Statistics</i> , 2009, 16, 63-73.	3.5	8
81	Bayesian benchmark dose analysis. <i>Environmetrics</i> , 2015, 26, 373-382.	1.4	8
82	Quantal Risk Assessment Database: A Database for Exploring Patterns in Quantal Dose-Response Data in Risk Assessment and its Application to Develop Priors for Bayesian Dose-Response Analysis. <i>Risk Analysis</i> , 2019, 39, 616-629.	2.7	8
83	The Gregor Mendel Controversy: Early Issues of Goodness-of-Fit and Recent Issues of Genetic Linkage. <i>History of Science</i> , 1986, 24, 173-182.	0.5	7
84	Asymmetric confidence bands for simple linear regression over bounded intervals. <i>Computational Statistics and Data Analysis</i> , 2000, 34, 193-217.	1.2	7
85	Estimation and Testing with Overdispersed Proportions Using the Beta-Logistic Regression Model of Heckman and Willis. <i>Biometrics</i> , 2000, 56, 125-133.	1.4	7
86	Combining environmental information via hierarchical modeling: an example using mutagenic potencies. <i>Environmetrics</i> , 2003, 14, 159-168.	1.4	7
87	Empirical Bayes analysis for a hierarchical Poisson generalized linear model. <i>Journal of Statistical Planning and Inference</i> , 2003, 111, 235-248.	0.6	7
88	Estimation of multivariate conditional-tail-expectation using Kendall's process. <i>Journal of Nonparametric Statistics</i> , 2014, 26, 241-267.	0.9	7
89	Autologistic Models for Benchmark Risk or Vulnerability Assessment of Urban Terrorism Outcomes. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2018, 181, 803-823.	1.1	7
90	Title is missing!. <i>Annals of the Institute of Statistical Mathematics</i> , 2003, 55, 243-250.	0.8	7

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91	Comparison of hyperbolic and constant width simultaneous confidence bands in multiple linear regression under MVCS criterion. <i>Journal of Multivariate Analysis</i> , 2009, 100, 1432-1439.	1.0	6
92	Estimating a bivariate tail: A copula based approach. <i>Journal of Multivariate Analysis</i> , 2013, 119, 81-100.	1.0	6
93	Spatial regression with an informatively missing covariate: Application to mapping fine particulate matter. <i>Environmetrics</i> , 2018, 29, e2499.	1.4	6
94	Estimation of the multivariate conditional tail expectation for extreme risk levels: Illustration on environmental data sets. <i>Environmetrics</i> , 2018, 29, e2510.	1.4	6
95	The questions of fit in the Gregor Mendel controversy. <i>Communications in Statistics - Theory and Methods</i> , 1983, 12, 2289-2304.	1.0	5
96	A Note on the Use of Prior Interval Information in Constructing Interval Estimates for a Gamma Mean. <i>Technometrics</i> , 1986, 28, 269-273.	1.9	5
97	Excess risk estimation under multistage model misspecification. <i>Journal of Statistical Computation and Simulation</i> , 2006, 76, 423-430.	1.2	5
98	Translational benchmark risk analysis. <i>Journal of Risk Research</i> , 2010, 13, 653-667.	2.6	5
99	Bayesian Model-Averaged Benchmark Dose Analysis via Reparameterized Quantal-Response Models. <i>Biometrics</i> , 2015, 71, 1168-1175.	1.4	5
100	Maximum likelihood estimation with binary-data regression models: small-sample and large-sample features. <i>Advances and Applications in Statistics</i> , 2010, 14, 101-116.	0.1	5
101	Performance of Likelihood Based Interval Estimates for Two Parameter Exponential Samples Subject to Type I Censoring. <i>Technometrics</i> , 1987, 29, 41-49.	1.9	4
102	Statistical models for genetic susceptibility in toxicological and epidemiological investigations.. <i>Environmental Health Perspectives</i> , 1994, 102, 77-82.	6.0	4
103	Empirical Bayes calculations of concordance between endpoints in environmental toxicity experiments. <i>Environmental and Ecological Statistics</i> , 1994, 1, 153-162.	3.5	4
104	Statistical aspects for combining information and meta-analysis in environmental toxicology—. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 1998, 16, 83-99.	2.9	4
105	Benchmark dose profiles for joint-action continuous data in quantitative risk assessment. <i>Biometrical Journal</i> , 2013, 55, 741-754.	1.0	4
106	Nonparametric Benchmark Dose Estimation with Continuous Dose-Response Data. <i>Scandinavian Journal of Statistics</i> , 2015, 42, 713-731.	1.4	4
107	Fisher's contributions to genetics and heredity, with special emphasis on the Gregor Mendel controversy. <i>Biometrics</i> , 1990, 46, 915-24.	1.4	4
108	Minimum mean-square error quadrature. <i>Journal of Statistical Computation and Simulation</i> , 1993, 46, 217-234.	1.2	3

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109	15 Environmental biometry: Assessing impacts of environmental stimuli via animal and microbial laboratory studies. Handbook of Statistics, 1994, , 535-559.	0.6	3
110	Combining information. Wiley Interdisciplinary Reviews: Computational Statistics, 2009, 1, 354-360.	3.9	3
111	Are $p$ -values under attack? Contribution to the discussion of "A critical evaluation of the current $p$ -value controversy". Biometrical Journal, 2017, 59, 889-891.	1.0	3
112	Average-Width Optimality for Confidence Bands in Simple Linear Regression. Journal of the American Statistical Association, 1985, 80, 692.	3.1	3
113	Model Robustness for Simultaneous Confidence Bands. Journal of the American Statistical Association, 1987, 82, 879.	3.1	3
114	Confidence Bands for Polynomial Regression With Fixed Intercepts. Technometrics, 1986, 28, 241-246.	1.9	2
115	Model Robustness for Simultaneous Confidence Bands. Journal of the American Statistical Association, 1987, 82, 879-885.	3.1	2
116	Statistical methods for assessing environmental effects on human genetic disorders. Environmetrics, 1992, 3, 369-384.	1.4	2
117	Communicating the risks, and the benefits, of nanotechnology. International Journal of Risk Assessment and Management, 2008, 10, 57.	0.1	2
118	Twenty-five years of Environmetrics. Environmetrics, 2014, 25, 1-1.	1.4	2
119	"Single-subject studies"-derived analyses unveil altered biomechanisms between very small cohorts: implications for rare diseases. Bioinformatics, 2021, 37, i67-i75.	4.1	2
120	Multiple comparisons for analyzing dichotomous response. Biometrics, 1991, 47, 45-52.	1.4	2
121	One-sided significance tests for generalized linear models under dichotomous response. Biometrics, 1990, 46, 309-16.	1.4	2
122	Exploring simple independent action in multifactor tables of proportions. Biometrics, 1988, 44, 595-603.	1.4	2
123	Influence of Viral Infections on Body Weight, Survival, and Tumor Prevalence of B6C3F1 (C57BL/6N $\times$ J) ETQq1 <sub>3,1</sub> rgBT /Ola	1.0784314	1
124	Environmental biometrics summary of papers presented at the international conference on environmental biometrics, Sydney, Australia, 14-15 December 1992. Environmetrics, 1993, 4, 369-379.	1.4	1
125	Parametric empirical Bayes estimation for a class of extended log-linear regression models. , 2000, 11, 271-285.		1
126	Introduction: modern benchmark analysis for environmental risk assessment. Environmental and Ecological Statistics, 2009, 16, 1-2.	3.5	1



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127	<i>Response</i> . Risk Analysis, 2009, 29, 1201-1202.	2.7	1
128	In Memory of George Casella. Environmetrics, 2013, 24, 279-280.	1.4	1
129	EnvironmetricsSilver Anniversary Special Issue. Environmetrics, 2014, 25, 559-559.	1.4	1
130	From terrorism to flooding: How vulnerable is your city?. Significance, 2021, 18, 20-25.	0.4	1
131	Confidence Bands for Polynomial Regression with Fixed Intercepts. Technometrics, 1986, 28, 241.	1.9	1
132	Confidence bands for logistic regression with restricted predictor variables. Biometrics, 1988, 44, 739-50.	1.4	1
133	Response to A. P. Grieve. Technometrics, 1987, 29, 505-506.	1.9	0
134	Durand's rules for approximate integration. Historia Mathematica, 1989, 16, 324-333.	0.3	0
135	Acrylamide: Dermal Exposure Produces Genetic Damage in Male Mouse Germ Cells. Toxicological Sciences, 1992, 18, 189-192.	3.1	0
136	“Statistical methods for analyzing developmental toxicity data,” author's reply. Teratogenesis, Carcinogenesis, and Mutagenesis, 1993, 13, 195-197.	0.8	0
137	14 Quantitative potency estimation to measure risk with bio-environmental hazards. Handbook of Statistics, 2000, 18, 441-463.	0.6	0
138	What shall we teach in environmental statistics?. Environmental and Ecological Statistics, 2002, 9, 125-150.	3.5	0
139	A pool-adjacent-violators-algorithm approach to detect infinite parameter estimates in one-regressor dose-response models with asymptotes. Journal of Statistical Computation and Simulation, 2014, 84, 2545-2556.	1.2	0
140	Benchmark dose risk analysis with mixed-factor quantal data in environmental risk assessment. Environmetrics, 2021, 32, e2677.	1.4	0
141	Adjusting statistical benchmark risk analysis to account for non-spatial autocorrelation, with application to natural hazard risk assessment. Journal of Applied Statistics, 0, , 1-21.	1.3	0