

Simon N Wood

List of Publications by Year in descending order

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88
papers

25,081
citations

61984

43
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51608

86
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94
docs citations

94
times ranked

28699
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Stable Restricted Maximum Likelihood and Marginal Likelihood Estimation of Semiparametric Generalized Linear Models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2011, 73, 3-36.	2.2	4,688
2	Generalized Additive Models. , 0, , .		4,529
3	Generalized Additive Models. , 0, , .		3,817
4	Thin Plate Regression Splines. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2003, 65, 95-114.	2.2	1,622
5	Stable and Efficient Multiple Smoothing Parameter Estimation for Generalized Additive Models. <i>Journal of the American Statistical Association</i> , 2004, 99, 673-686.	3.1	1,472
6	Making mistakes when predicting shifts in species range in response to global warming. <i>Nature</i> , 1998, 391, 783-786.	27.8	984
7	Smoothing Parameter and Model Selection for General Smooth Models. <i>Journal of the American Statistical Association</i> , 2016, 111, 1548-1563.	3.1	804
8	GAMs with integrated model selection using penalized regression splines and applications to environmental modelling. <i>Ecological Modelling</i> , 2002, 157, 157-177.	2.5	649
9	Fast Stable Direct Fitting and Smoothness Selection for Generalized Additive Models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2008, 70, 495-518.	2.2	522
10	Practical variable selection for generalized additive models. <i>Computational Statistics and Data Analysis</i> , 2011, 55, 2372-2387.	1.2	512
11	Low-Rank Scale-Invariant Tensor Product Smooths for Generalized Additive Mixed Models. <i>Biometrics</i> , 2006, 62, 1025-1036.	1.4	410
12	Statistical inference for noisy nonlinear ecological dynamic systems. <i>Nature</i> , 2010, 466, 1102-1104.	27.8	345
13	WHY DO POPULATIONS CYCLE? A SYNTHESIS OF STATISTICAL AND MECHANISTIC MODELING APPROACHES. <i>Ecology</i> , 1999, 80, 1789-1805.	3.2	300
14	On p-values for smooth components of an extended generalized additive model. <i>Biometrika</i> , 2013, 100, 221-228.	2.4	245
15	Coverage Properties of Confidence Intervals for Generalized Additive Model Components. <i>Scandinavian Journal of Statistics</i> , 2012, 39, 53-74.	1.4	209
16	Model averaging in ecology: a review of Bayesian, information-theoretic, and tactical approaches for predictive inference. <i>Ecological Monographs</i> , 2018, 88, 485-504.	5.4	209
17	Generalized Additive Models for Large Data Sets. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2015, 64, 139-155.	1.0	191
18	Habitat structure and population persistence in an experimental community. <i>Nature</i> , 2001, 412, 538-543.	27.8	187

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19	Shape constrained additive models. <i>Statistics and Computing</i> , 2015, 25, 543-559.	1.5	179
20	Correcting for Variation in Recording Effort in Analyses of Diversity Hotspots. <i>Biodiversity Letters</i> , 1993, 1, 39.	0.5	146
21	ON CONFIDENCE INTERVALS FOR GENERALIZED ADDITIVE MODELS BASED ON PENALIZED REGRESSION SPLINES. <i>Australian and New Zealand Journal of Statistics</i> , 2006, 48, 445-464.	0.9	140
22	Straightforward intermediate rank tensor product smoothing in mixed models. <i>Statistics and Computing</i> , 2013, 23, 341-360.	1.5	136
23	DYNAMICAL EFFECTS OF PLANT QUALITY AND PARASITISM ON POPULATION CYCLES OF LARCH BUDMOTH. <i>Ecology</i> , 2003, 84, 1207-1214.	3.2	130
24	Soap Film Smoothing. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2008, 70, 931-955.	2.2	126
25	Generalized Additive Models for Gigadata: Modeling the U.K. Black Smoke Network Daily Data. <i>Journal of the American Statistical Association</i> , 2017, 112, 1199-1210.	3.1	109
26	Super-sensitivity to structure in biological models. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 565-570.	2.6	106
27	Stage-specific mortality of <i>Calanus</i> spp. under different predation regimes. <i>Limnology and Oceanography</i> , 2002, 47, 636-645.	3.1	99
28	Scalable Visualization Methods for Modern Generalized Additive Models. <i>Journal of Computational and Graphical Statistics</i> , 2020, 29, 78-86.	1.7	98
29	Analyzing the Time Course of Pupillometric Data. <i>Trends in Hearing</i> , 2019, 23, 233121651983248.	1.3	95
30	Ocean-scale modelling of the distribution, abundance, and seasonal dynamics of the copepod <i>Calanus finmarchicus</i> . <i>Marine Ecology - Progress Series</i> , 2006, 313, 173-192.	1.9	92
31	Fast Calibrated Additive Quantile Regression. <i>Journal of the American Statistical Association</i> , 2021, 116, 1402-1412.	3.1	91
32	PARTIALLY SPECIFIED ECOLOGICAL MODELS. <i>Ecological Monographs</i> , 2001, 71, 1-25.	5.4	88
33	Minimizing Model Fitting Objectives That Contain Spurious Local Minima by Bootstrap Restarting. <i>Biometrics</i> , 2001, 57, 240-244.	1.4	86
34	A simple test for random effects in regression models. <i>Biometrika</i> , 2013, 100, 1005-1010.	2.4	84
35	Estimation techniques used in studies of copepod population dynamics – A review of underlying assumptions. <i>Sarsia</i> , 1997, 82, 279-296.	0.5	81
36	Modeling Spatiotemporal Forest Health Monitoring Data. <i>Journal of the American Statistical Association</i> , 2009, 104, 899-911.	3.1	80

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37	Monotonic Smoothing Splines Fitted by Cross Validation. <i>SIAM Journal of Scientific Computing</i> , 1994, 15, 1126-1133.	2.8	60
38	Mortality estimation for planktonic copepods: <i>Pseudocalanus newmani</i> in a temperate fjord. <i>Limnology and Oceanography</i> , 1996, 41, 126-135.	3.1	59
39	POPULATION CYCLES IN THE PINE LOOPER MOTH: DYNAMICAL TESTS OF MECHANISTIC HYPOTHESES. <i>Ecological Monographs</i> , 2005, 75, 259-276.	5.4	56
40	Space-time modelling of blue ling for fisheries stock management. <i>Environmetrics</i> , 2013, 24, 109-119.	1.4	55
41	Space, time and persistence of virulent pathogens. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1996, 263, 673-680.	2.6	54
42	On quantile quantile plots for generalized linear models. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 2404-2409.	1.2	52
43	The inevitability of mortality. <i>ICES Journal of Marine Science</i> , 1995, 52, 517-522.	2.5	49
44	FORMULATING AND TESTING A PARTIALLY SPECIFIED DYNAMIC ENERGY BUDGET MODEL. <i>Ecology</i> , 2004, 85, 3132-3139.	3.2	48
45	Just Another Gibbs Additive Modeler: Interfacing <i>JAGS</i> and <i>mgcv</i> . <i>Journal of Statistical Software</i> , 2016, 75, .	3.7	48
46	Modelling the basin-scale demography of <i>Calanus finmarchicus</i> in the north-east Atlantic. <i>Fisheries Oceanography</i> , 2005, 14, 333-358.	1.7	46
47	A Generalized Fellner-Schall Method for Smoothing Parameter Optimization with Application to Tweedie Location, Scale and Shape Models. <i>Biometrics</i> , 2017, 73, 1071-1081.	1.4	46
48	A Comparison of Inferential Methods for Highly Nonlinear State Space Models in Ecology and Epidemiology. <i>Statistical Science</i> , 2016, 31, .	2.8	44
49	The biogeography of scarce vascular plants in Britain with respect to habitat preference, dispersal ability and reproductive biology. <i>Biological Conservation</i> , 1994, 70, 149-157.	4.1	43
50	Inferring mechanism from time-series data: Delay-differential equations. <i>Physica D: Nonlinear Phenomena</i> , 1997, 110, 182-194.	2.8	42
51	A Simultaneous Equation Approach to Estimating HIV Prevalence With Nonignorable Missing Responses. <i>Journal of the American Statistical Association</i> , 2017, 112, 484-496.	3.1	40
52	Persistence of <i>Metarhizium flavoviride</i> and Consequences for Biological Control of Grasshoppers and Locusts. <i>Pest Management Science</i> , 1997, 49, 47-55.	0.4	39
53	Inference and computation with generalized additive models and their extensions. <i>Test</i> , 2020, 29, 307-339.	1.1	38
54	Investigating dialectal differences using articulatory. <i>Journal of Phonetics</i> , 2016, 59, 122-143.	1.2	35

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55	Instability in Mortality Estimation Schemes Related to Stage-Structure Population Models. <i>Mathematical Medicine and Biology</i> , 1989, 6, 47-68.	1.2	34
56	P-splines with derivative based penalties and tensor product smoothing of unevenly distributed data. <i>Statistics and Computing</i> , 2017, 27, 985-989.	1.5	34
57	Faster model matrix crossproducts for large generalized linear models with discretized covariates. <i>Statistics and Computing</i> , 2020, 30, 19-25.	1.5	31
58	Trade-Offs, Elasticities and the Comparative Method. <i>Journal of Ecology</i> , 1994, 82, 951.	4.0	27
59	Simulating spatially and physiologically structured populations. <i>Journal of Animal Ecology</i> , 2001, 70, 881-894.	2.8	27
60	A Model-Based Approach to Designing a Fishery-Independent Survey. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2013, 18, 1-21.	1.4	27
61	Inferring UK COVID-19 fatal infection trajectories from daily mortality data: Were infections already in decline before the UK lockdowns?. <i>Biometrics</i> , 2022, 78, 1127-1140.	1.4	26
62	Characterization of stage-classified biological processes using multinomial models: a case study of anchovy (<i>Engraulis encrasicolus</i>) eggs in the Bay of Biscay. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2007, 64, 539-553.	1.4	25
63	Statistical and Theoretical Models of Ingestion Through Turbine Rim Seals. <i>Journal of Turbomachinery</i> , 2013, 135, .	1.7	25
64	qgam: Bayesian Nonparametric Quantile Regression Modeling in R. <i>Journal of Statistical Software</i> , 2021, 100, .	3.7	24
65	Finite area smoothing with generalized distance splines. <i>Environmental and Ecological Statistics</i> , 2014, 21, 715-731.	3.5	22
66	The effects of group size, leaf size, and density on the performance of a leaf-mining moth. <i>Journal of Animal Ecology</i> , 2009, 78, 152-160.	2.8	21
67	Understanding demography in an advective environment: modelling <i>Calanus finmarchicus</i> in the Norwegian Sea. <i>Journal of Animal Ecology</i> , 2004, 73, 897-910.	2.8	19
68	Modelling length-at-age variability under irreversible growth. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2007, 64, 638-653.	1.4	19
69	Estimation of Mortality Rates in Stage-Structured Population. <i>Lecture Notes in Biomathematics</i> , 1991, , .	0.3	19
70	Spatial+: A novel approach to spatial confounding. <i>Biometrics</i> , 2022, 78, 1279-1290.	1.4	17
71	A revision of daily egg production estimation methods, with application to Atlanto-Iberian sardine. 1. Daily spawning synchronicity and estimates of egg mortality. <i>ICES Journal of Marine Science</i> , 2011, 68, 519-527.	2.5	16
72	A revision of daily egg production estimation methods, with application to Atlanto-Iberian sardine. 2. Spatially and environmentally explicit estimates of egg production. <i>ICES Journal of Marine Science</i> , 2011, 68, 528-536.	2.5	15

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73	Calibrating remotely sensed chlorophyll-a data by using penalized regression splines. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2006, 55, 331-353.	1.0	14
74	Computing AIC for black-box models using generalized degrees of freedom: A comparison with cross-validation. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2018, 47, 1382-1396.	1.2	13
75	An extended empirical saddlepoint approximation for intractable likelihoods. <i>Electronic Journal of Statistics</i> , 2018, 12, .	0.7	12
76	COVID-19 and the difficulty of inferring epidemiological parameters from clinical data. <i>Lancet Infectious Diseases</i> , The, 2021, 21, 27-28.	9.1	12
77	Spatial distribution functions and abundances inferred from sparse noisy plankton data: an application of constrained thin-plate splines. <i>Journal of Plankton Research</i> , 1995, 17, 1189-1208.	1.8	10
78	Improving ecological impact assessment by statistical data synthesis using process-based models. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2006, 55, 41-62.	1.0	10
79	Estimation of copepod mortality rates. <i>Ophelia</i> , 1996, 44, 157-169.	0.3	6
80	Simplified integrated nested Laplace approximation. <i>Biometrika</i> , 2019, , .	2.4	6
81	Was R < 1 before the English lockdowns? On modelling mechanistic detail, causality and inference about Covid-19. <i>PLoS ONE</i> , 2021, 16, e0257455.	2.5	6
82	How to Estimate Life History Stage Durations from Stage Structured Population Data. <i>Journal of Theoretical Biology</i> , 1993, 163, 61-76.	1.7	5
83	Spline models of biological population dynamics: How to estimate mortality rates for stage structured populations with dimorphic life histories. <i>Mathematical Medicine and Biology</i> , 1994, 11, 61-78.	1.2	4
84	Additive stacking for disaggregate electricity demand forecasting. <i>Annals of Applied Statistics</i> , 2021, 15, .	1.1	4
85	Rejoinder on: Inference and computation with Generalized Additive Models and their extensions. <i>Test</i> , 2020, 29, 354-358.	1.1	1
86	Statistical and Theoretical Models of Ingestion Through Turbine Rim Seals. , 2011, , .		1
87	Partially Specified Ecological Models. <i>Ecological Monographs</i> , 2001, 71, 1.	5.4	1
88	Rejoinder to the discussions of "Spatial+: A novel approach to spatial confounding". <i>Biometrics</i> , 2022, 78, 1309-1312.	1.4	1