Simon P Wilson

List of Publications by Year
in descending order

54 papers	2,290 citations	361296 20 h-index	233338 45 g-index
56 all docs	56 docs citations	56 times ranked	3267 citing authors

#	Article	IF	Citations
1	The Magnitude of Global Marine Species Diversity. Current Biology, 2012, 22, 2189-2202.	1.8	797
2	Predicting Total Global Species Richness Using Rates of Species Description and Estimates of Taxonomic Effort. Systematic Biology, 2012, 61, 871.	2.7	204
3	Bayesian palaeoclimate reconstruction. Journal of the Royal Statistical Society Series A: Statistics in Society, 2006, 169, 395-438.	0.6	104
4	More Taxonomists Describing Significantly Fewer Species per Unit Effort May Indicate That Most Species Have Been Discovered. Systematic Biology, 2013, 62, 616-624.	2.7	96
5	Statistical Methods in Software Engineering. Springer Series in Statistics, 1999, , .	0.9	93
6	The Warranty Problem: Its Statistical and Game-Theoretic Aspects. SIAM Review, 1993, 35, 17-42.	4.2	88
7	Failure models indexed by two scales. Advances in Applied Probability, 1998, 30, 1058-1072.	0.4	87
8	A review of probabilistic methods of assessment of load effects in bridges. Structural Safety, 2015, 53, 44-56.	2.8	86
9	Bayesian Inference for Reliability of Systems and Networks Using the Survival Signature. Risk Analysis, 2015, 35, 1640-1651.	1.5	68
10	Calculating the Reserve for a Time and Usage Indexed Warranty. Management Science, 1997, 43, 966-975.	2.4	64
11	Predicting the number of known and unknown species in European seas using rates of description. Global Ecology and Biogeography, 2011, 20, 319-330.	2.7	62
12	Double Markov random fields and Bayesian image segmentation. IEEE Transactions on Signal Processing, 2002, 50, 357-365.	3.2	60
13	Deciding How Long to Test Software. Journal of the Royal Statistical Society: Series D (the) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.2	43
14	Progress and perspectives in the discovery of polychaete worms (Annelida) of the world. Helgoland Marine Research, 2019, 73, .	1.3	40
15	Progress in the discovery of amphipod crustaceans. PeerJ, 2018, 6, e5187.	0.9	35
16	Predicting future discoveries of European marine species by using a non-homogeneous renewal process. Journal of the Royal Statistical Society Series C: Applied Statistics, 2005, 54, 897-918.	0.5	34
17	Bayesian inference for double Pareto lognormal queues. Annals of Applied Statistics, 2010, 4, .	0.5	28
18	Pilot Work Related Stress (WRS), Effects on Wellbeing and Mental Health, and Coping Methods. International Journal of Aerospace Psychology, 2021, 31, 87-109.	1.1	27

#	ARTICLE	IF	CITATIONS
19	Advances in Bayesian decision making in reliability. European Journal of Operational Research, 2020, 282, 1-18.	3.5	26
20	Parallel algorithms for Markov chain Monte Carlo methods in latent spatial Gaussian models. Statistics and Computing, 2004, 14, 171-179.	0.8	22
21	Factors influencing when species are first named and estimating global species richness. Global Ecology and Conservation, 2015, 4, 243-254.	1.0	22
22	Nonparametric Analysis of the Order-Statistic Model in Software Reliability. IEEE Transactions on Software Engineering, 2007, 33, 198-208.	4.3	19
23	A Bayesian approach to modeling mortgage default and prepayment. European Journal of Operational Research, 2019, 274, 1112-1124.	3.5	17
24	The use of Bayesian statistics to predict patterns of spatial repeatability. Transportation Research Part C: Emerging Technologies, 2006, 14, 303-315.	3.9	14
25	The Requirements for New Tools for Use by Pilots and the Aviation Industry to Manage Risks Pertaining to Work-Related Stress (WRS) and Wellbeing, and the Ensuing Impact on Performance and Safety. Technologies, 2020, 8, 40.	3.0	14
26	Prior Robustness for Bayesian Implementation of the Fault Tree Analysis. IEEE Transactions on Reliability, 2018, 67, 170-183.	3.5	13
27	The exponentiation formula of reliability and survival: Does it always hold?. Lifetime Data Analysis, 1995, 1, 187-194.	0.4	12
28	Fully Bayesian Source Separation of Astrophysical Images Modelled by Mixture of Gaussians. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 685-696.	7.3	11
29	Short-term traffic-flow forecasting with auto-regressive moving average models. Proceedings of the Institution of Civil Engineers: Transport, 2014, 167, 232-239.	0.3	11
30	As in other taxa, relatively fewer beetles are being described by an increasing number of authors: response to <scp>L</scp>Ã¶bl and <scp>L</scp>eschen. Systematic Entomology, 2014, 39, 395-399.	1.7	11
31	Reliability assessment from fatigue micro-crack data. IEEE Transactions on Reliability, 1997, 46, 165-172.	3.5	10
32	Estimating redshift distributions using hierarchical logistic Gaussian processes. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4768-4782.	1.6	9
33	Bayesian spatiotemporal model of fMRI data using transfer functions. NeuroImage, 2010, 52, 995-1004.	2.1	8
34	A Bayesian analysis of beta testing. Test, 2006, 15, 227-255.	0.7	7
35	Reliability estimation from field return data. Lifetime Data Analysis, 2009, 15, 397-410.	0.4	7
36	Hierarchical modelling of orthopaedic hip replacement damage accumulation and reliability. Journal of the Royal Statistical Society Series C: Applied Statistics, 2005, 54, 425-441.	0.5	5

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37	Application of generalized linear models for optimizing production stress testing. , 2008, , .		5
38	Sequential Bayesian inference for static parameters in dynamic state space models. Computational Statistics and Data Analysis, 2018, 127, 187-203.	0.7	5
39	Bayesian kernel projections for classification of high dimensional data. Statistics and Computing, 2011, 21, 203-216.	0.8	4
40	Statistical analysis and reliability prediction with short fatigue crack data. Fatigue and Fracture of Engineering Materials and Structures, 1999, 22, 67-76.	1.7	3
41	Dependent Gaussian mixture models for source separation. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	3
42	User and design requirements and production of evidence: using incident analysis data to (1) inform user scenarios and bow ties, and (2) generate user and design requirements. Cognition, Technology and Work, 2018, 20, 23-47.	1.7	3
43	Parameter Estimation for a Model with Both Imperfect Test and Repair. VLSI Test Symposium (VTS), Proceedings, IEEE, 2007, , .	1.0	2
44	Stress test optimization using an integrated production test and field reliability model. Quality and Reliability Engineering International, 2010, 26, 579-592.	1.4	2
45	Estimating production test properties from test measurement data. Applied Stochastic Models in Business and Industry, 2012, 28, 542-557.	0.9	2
46	Brain activity detection by estimating the signal-to-noise ratio of fMRI time series using dynamic linear models. , 2015, 47, 205-211.		2
47	MODELS FOR OPTIMIZATION OF PRODUCTION ENVIRONMENTAL STRESS TESTING ON ELECTRONIC CIRCUIT PACKS. International Journal of Reliability, Quality and Safety Engineering, 2008, 15, 555-579.	0.4	1
48	A fast Bayesian model for latent radio signal prediction. , 2009, , .		1
49	Improved Mean Shift Algorithm with Heterogeneous Node Weights. , 2010, , .		1
50	Special issue of ASMBI for GDDR 2017. Applied Stochastic Models in Business and Industry, 2019, 35, 398-398.	0.9	1
51	Reliability in the 21st century. Wiley Interdisciplinary Reviews: Computational Statistics, 2009, 1, 338-341.	2.1	0
52	A probability model of system downtime with implications for optimal warranty design. Quality and Reliability Engineering International, 2010, 26, 83-96.	1.4	0
53	Bayesian factor analysis using Gaussian mixture sources, with application to separation of the cosmic microwave background. , 2010, , .		0
54	Decisions in Risk and Reliability: An Explanatory Perspective. Stats, 2021, 4, 228-250.	0.5	0