Andrew T A Wood

List of Publications by Year
in descending order

54 papers	1,686 citations	304743 22 h-index	302126 39 g-index
54 all docs	54 docs citations	54 times ranked	1601 citing authors

#	Article	IF	Citations
1	Simulation of Stationary Gaussian Processes in [0, 1]^d. Journal of Computational and Graphical Statistics, 1994, 3, 409-432.	1.7	191
2	Transcriptional Dynamics of Two Seed Compartments with Opposing Roles in Arabidopsis Seed Germination Â Â. Plant Physiology, 2013, 163, 205-215.	4.8	175
3	On the performance of box-counting estimators of fractal dimension. Biometrika, 1993, 80, 246-251.	2.4	99
4	A Guideline to Family-Wide Comparative State-of-the-Art Quantitative RT-PCR Analysis Exemplified with a Brassicaceae Cross-Species Seed Germination Case Study Â. Plant Cell, 2011, 23, 2045-2063.	6.6	98
5	Laplace approximations for hypergeometric functions with matrix argument. Annals of Statistics, 2002, 30, 1155.	2.6	81
6	Saddlepoint Approximations to the CDF of Some Statistics with Nonnormal Limit Distributions. Journal of the American Statistical Association, 1993, 88, 680-686.	3.1	75
7	Exact and approximate distributions of protein and mRNA levels in the low-copy regime of gene expression. Journal of Mathematical Biology, 2012, 64, 829-854.	1.9	71
8	Saddlepoint approximations for the Bingham and Fisherâ€"Bingham normalising constants. Biometrika, 2005, 92, 465-476.	2.4	69
9	Digital Single-Cell Analysis of Plant Organ Development Using 3DCellAtlas. Plant Cell, 2015, 27, 1018-1033.	6.6	67
10	Promotion of Testa Rupture during Garden Cress Germination Involves Seed Compartment-Specific Expression and Activity of Pectin Methylesterases Â. Plant Physiology, 2014, 167, 200-215.	4.8	64
11	Pivotal Bootstrap Methods fork-Sample Problems in Directional Statistics and Shape Analysis. Journal of the American Statistical Association, 2007, 102, 695-707.	3.1	54
12	Multiscale stochastic modelling of gene expression. Journal of Mathematical Biology, 2012, 65, 493-520.	1.9	52
13	Transcriptional Bursting Diversifies the Behaviour of a Toggle Switch: Hybrid Simulation of Stochastic Gene Expression. Bulletin of Mathematical Biology, 2013, 75, 351-371.	1.9	40
14	Improved Pivotal Methods for Constructing Confidence Regions with Directional Data. Journal of the American Statistical Association, 1996, 91, 1062-1070.	3.1	39
15	An F Approximation to the Distribution of a Linear Combination of Chi-squared Variables.. Communications in Statistics Part B: Simulation and Computation, 1989, 18, 1439-1456.	1.2	38
16	ESTIMATION OF FRACTAL INDEX AND FRACTAL DIMENSION OF A GAUSSIAN PROCESS BY COUNTING THE NUMBER OF LEVEL CROSSINGS. Journal of Time Series Analysis, 1994, 15, 587-606.	1.2	36
17	A multi-dimensional scaling approach to shape analysis. Biometrika, 2008, 95, 779-798.	2.4	35
18	A Bimodal Distribution on the Sphere. Journal of the Royal Statistical Society Series C: Applied Statistics, 1982, 31, 52.	1.0	32

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19	Saddlepoint approximations for the normalizing constant of Fisher-Bingham distributions on products of spheres and Stiefel manifolds. Biometrika, 2013, 100, 971-984.	2.4	30
20	Estimation of fractal dimension for a class of non-Gaussian stationary processes and fields. Annals of Statistics, 2004, 32, 1222.	2.6	26
21	Linear discriminant analysis reveals differences in root architecture in wheat seedlings related to nitrogen uptake efficiency. Journal of Experimental Botany, 2017, 68, 4969-4981.	4.8	26
22	An elliptically symmetric angular Gaussian distribution. Statistics and Computing, 2018, 28, 689-697.	1.5	26
23	Exponential empirical likelihood is not Bartlett correctable. Annals of Statistics, 1996, 24, 365.	2.6	25
24	Saddlepoint approximation for moment generating functions of truncated random variables. Annals of Statistics, 2004, 32, 2712.	2.6	25
25	Improved Classification for Compositional Data Using the $\hat{α}$-transformation. Journal of Classification, 2016, 33, 243-261.	2.2	20
26	Large Deviation and Other Results for Minimum Contrast Estimators. Annals of the Institute of Statistical Mathematics, 1998, 50, 673-695.	0.8	19
27	On Large Deviations and Choice of Ancillary for p* and r*. Bernoulli, 1998, 4, 35.	1.3	17
28	Scaled von Mises–Fisher Distributions and Regression Models for Paleomagnetic Directional Data. Journal of the American Statistical Association, 2019, 114, 1547-1560.	3.1	16
29	Balanced Importance Resampling for the Bootstrap. Annals of Statistics, 1993, 21, 286.	2.6	15
30	A measure of asymmetry based on a new necessary and sufficient condition for symmetry. Sankhya A, 2014, 76, 123-145.	0.8	13
31	The simulation of spherical distributions in the Fisher-Bingham family. Communications in Statistics Part B: Simulation and Computation, 1987, 16, 885-898.	1.2	12
32	Empirical Bayes block shrinkage of wavelet coefficients via the noncentral χ^2 distribution. Biometrika, 2006, 93, 705-722.	2.4	10
33	Two-Sample Bootstrap Hypothesis Tests for Three-Dimensional Labelled Landmark Data. Scandinavian Journal of Statistics, 2010, 37, 568-587.	1.4	9
34	A Dimensional CLT for Non-Central Wilks' Lambda in Multivariate Analysis. Scandinavian Journal of Statistics, 2004, 31, 585-601.	1.4	8
35	Approximation of power in multivariate analysis. Statistics and Computing, 2005, 15, 281-287.	1.5	8
36	Approximation of transition densities of stochastic differential equations by saddlepoint methods applied to small-time Itô–Taylor sample-path expansions. Statistics and Computing, 2012, 22, 205-217.	1.5	7

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37	Nonparametric hypothesis testing for equality of means on the simplex. Journal of Statistical Computation and Simulation, 2017, 87, 406-422.	1.2	7
38	Bootstrap Estimation of Conditional Distributions. Annals of Statistics, 1992, 20, 1594.	2.6	6
39	Taylor Expansions of Curve-Crossing Probabilities. Bernoulli, 1999, 5, 779.	1.3	5
40	Bootstrap Relative Errors and Sub-Exponential Distributions. Bernoulli, 2000, 6, 809.	1.3	5
41	Bootstrap inference for mean reflection shape and size-and-shape with three-dimensional landmark data. Biometrika, 2011, 98, 49-63.	2.4	5
42	Spherical regression models with general covariates and anisotropic errors. Statistics and Computing, 2020, 30, 153-165.	1.5	5
43	Statistical inference for functions of the covariance matrix in the stationary Gaussian time-orthogonal principal components model. Annals of the Institute of Statistical Mathematics, 2010, 62, 967-994.	0.8	4
44	Directions Old and New: Palaeomagnetism and Fisher (1953) Meet Modern Statistics. International Statistical Review, 2022, 90, 237-258.	1.9	4
45	Wavelet Estimation of an Unknown Function Observed with Correlated Noise. Communications in Statistics Part B: Simulation and Computation, 2010, 39, 287-304.	1.2	3
46	Gaussian Asymptotic Limits for the Î±-transformation in the Analysis of Compositional Data. Sankhya A, 2019, 81, 63-82.	0.8	3
47	Analogues on the Sphere of the Affine-Equivariant Spatial Median. Journal of the American Statistical Association, 2021, 116, 1457-1471.	3.1	3
48	Laplace approximation of Lauricella functions F A and F D. Advances in Computational Mathematics, 2015, 41, 1015-1037.	1.6	2
49	Bias-corrected maximum likelihood estimation of the parameters of the complex Bingham distribution. Brazilian Journal of Probability and Statistics, 2016, 30, .	0.4	2
50	Score Matching for Compositional Distributions. Journal of the American Statistical Association, 0, , 1-13.	3.1	2
51	Regression Modeling for Size-and-Shape Data Based on a Gaussian Model for Landmarks. Journal of the American Statistical Association, 2021, 116, 1011-1022.	3.1	1
52	Analogues on the Sphere of the Affine-Equivariant Spatial Median. , 0, .		1
53	Operating at the extreme: estimating the upper yield boundary of winter wheat production in commercial practice. Royal Society Open Science, 2020, 7, 191919.	2.4	0
54	Approximate Maximum Likelihood Estimation for 1D Diffusions Observed on a Fine Grid. Scandinavian Journal of Statistics, 0, , .	1.4	0