Douglas M Bates

List of Publications by Year
in descending order

32 papers	64,016 citations

361413

20 h-index	35 g-index

361022

54 all docs	54 docs citations
54 times ranked	81842 citing authors

#	Article	IF	Citations
1	Fitting Linear Mixed-Effects Models Using **lme4**. Journal of Statistical Software, 2015, 67, .	3.7	51,305
2	Mixed-Effects Models in Sand S-PLUS. Statistics and Computing, 2000, , .	0.2	7,039
3	Nonlinear Mixed Effects Models for Repeated Measures Data. Biometrics, 1990, 46, 673.	1.4	1,418
4	Balancing Type I error and power in linear mixed models. Journal of Memory and Language, 2017, 94, 305-315.	2.1	1,076
5	Newtonâ€"Raphson and EM Algorithms for Linear Mixed-Effects Models for Repeated-Measures Data. Journal of the American Statistical Association, 1988, 83, 1014-1022.	3.1	626
6	Approximations to the Log-Likelihood Function in the Nonlinear Mixed-Effects Model. Journal of Computational and Graphical Statistics, 1995, 4, 12.	1.7	601
7	Approximations to the Log-Likelihood Function in the Nonlinear Mixed-Effects Model. Journal of Computational and Graphical Statistics, 1995, 4, 12-35.	1.7	548
8	Unconstrained parametrizations for variance-covariance matrices. Statistics and Computing, 1996, 6, 289-296.	1.5	368
9	Newton-Raphson and EM Algorithms for Linear Mixed-Effects Models for Repeated-Measures Data. Journal of the American Statistical Association, 1988, 83, 1014.	3.1	208
10	The cave of shadows: Addressing the human factor with generalized additive mixed models. Journal of Memory and Language, 2017, 94, 206-234.	2.1	135
11	Parameter Transformations for Improved Approximate Confidence Regions in Nonlinear Least Squares. Annals of Statistics, 1981, 9, 1152.	2.6	93
12	Gcvpack â€" routines for generalized cross validation. Communications in Statistics Part B: Simulation and Computation, 1987, 16, 263-297.	1.2	93
13	Accounting for Intrinsic Nonlinearity in Nonlinear Regression Parameter Inference Regions. Annals of Statistics, 1982, 10, 386.	2.6	82
14	International collaboration in psychology is on the rise. Scientometrics, 2011, 87, 149-158.	3.0	46
15	Multiresponse Estimation With Special Application to Linear Systems of Differential Equations. Technometrics, 1985, 27, 329-339.	1.9	40
16	Calculation of intrinsic and parameter-effects curvatures for nonlinear regression models. Communications in Statistics Part B: Simulation and Computation, 1983, 12, 469-477.	1.2	37
17	A Relative Offset Orthogonality Convergence Criterion for Nonlinear Least Squares. Technometrics, 1981, 23, 179.	1.9	36
18	LINEAR AND NONLINEAR MIXED-EFFECTS MODELS. Conference on Applied Statistics in Agriculture, 0, , .	0.0	33

#	ARTICLE	IF	CITATIONS
19	A Generalized Gauss-Newton Procedure for Multiresponse Parameter Estimation. SIAM Journal on Scientific and Statistical Computing, 1987, 8, 49-55.	1.5	31
20	OpenMendel: a cooperative programming project for statistical genetics. Human Genetics, 2020, 139, 61-71.	3.8	29
21	A Relative Off set Orthogonality Convergence Criterion for Nonlinear least Squares. Technometrics, 1981, 23, 179-183.	1.9	26
22	Approximate inferences in multiresponse regression analysis. Biometrika, 1990, 77, 321-331.	2.4	18
23	The Derivative of $|Xâ€²X|$ and Its Uses. Technometrics, 1983, 25, 373-376.	1.9	17
24	A multi-response gauss-newton algorithm. Communications in Statistics Part B: Simulation and Computation, 1984, 13, 705-715.	1.2	16
25	Multiresponse Estimation with Special Application to Linear Systems of Differential Equations. Technometrics, 1985, 27, 329.	1.9	15
26	An Empirical Study of Statistical Properties of Variance Partition Coefficients for Multi-Level Logistic Regression Models. Communications in Statistics Part B: Simulation and Computation, 2008, 37, 2010-2026.	1.2	11
27	The Derivative of $|Xâ€²X|$ and Its Uses. Technometrics, 1983, 25, 373.	1.9	10
28	Loosely coupled nonlinear least squares. Computational Statistics and Data Analysis, 1992, 14, 249-259.	1.2	9
29	Multiresponse spline regression. Computational Statistics and Data Analysis, 1996, 22, 619-631.	1.2	9
30	Non-negative regression by givens rotations. Communications in Statistics Part B: Simulation and Computation, 1984, 13, 841-850.	1.2	2
31	Appendix 7. Key to Data Sets. Wiley Series in Probability and Statistics, 2008, , 329-333.	0.0	0
32	[Computers in Statistical Research]: Comment. Statistical Science, 1986, 1, .	2.8	0