

Anthony C Atkinson

List of Publications by Year in descending order

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78
papers

1,713
citations

361413
20
h-index

315739
38
g-index

86
all docs

86
docs citations

86
times ranked

995
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Diagnostic Regression Analysis. Springer Series in Statistics, 2000, , .	0.9	274
2	Exploring Multivariate Data with the Forward Search. Springer Series in Statistics, 2004, , .	0.9	141
3	Finding an Unknown Number of Multivariate Outliers. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2009, 71, 447-466.	2.2	134
4	Optimum biased-coin designs for sequential treatment allocation with covariate information. , 1999, 18, 1741-1752.		70
5	The comparison of designs for sequential clinical trials with covariate information. Journal of the Royal Statistical Society Series A: Statistics in Society, 2002, 165, 349-373.	1.1	66
6	The forward search: Theory and data analysis. Journal of the Korean Statistical Society, 2010, 39, 117-134.	0.4	66
7	Bayesian Adaptive Biased-Coin Designs for Clinical Trials with Normal Responses. Biometrics, 2005, 61, 118-125.	1.4	64
8	The Boxâ€Cox Transformation: Review and Extensions. Statistical Science, 2021, 36, .	2.8	57
9	Compound<i>D</i>- and<i>D</i>_{<i>S</i>}-Optimum Designs for Determining the Order of a Chemical Reaction. Technometrics, 1997, 39, 347-356.	1.9	45
10	Optimal experimental design in chromatography. Journal of Chromatography A, 2008, 1177, 1-11.	3.7	39
11	Monitoring robust regression. Electronic Journal of Statistics, 2014, 8, .	0.7	35
12	Elemental information matrices and optimal experimental design for generalized regression models. Journal of Statistical Planning and Inference, 2014, 144, 81-91.	0.6	35
13	Distribution Theory and Simulations for Tests of Outliers in Regression. Journal of Computational and Graphical Statistics, 2006, 15, 460-476.	1.7	34
14	Optimum Experimental Designs for Multinomial Logistic Models. Biometrics, 1999, 55, 437-444.	1.4	33
15	A Unified Approach to Outliers, Inuence, and Transformations in Discriminant Analysis. Journal of Computational and Graphical Statistics, 2001, 10, 513-544.	1.7	32
16	Robust Diagnostic Data Analysis: Transformations in Regression. Technometrics, 2000, 42, 384-394.	1.9	30
17	Controlling the size of multivariate outlier tests with the MCD estimator of scatter. Statistics and Computing, 2009, 19, 341-353.	1.5	30
18	The power of monitoring: how to make the most of a contaminated multivariate sample. Statistical Methods and Applications, 2018, 27, 559-587.	1.2	29

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19	Regression analysis with partially labelled regressors: carbon dating of the Shroud of Turin. <i>Statistics and Computing</i> , 2013, 23, 551-561.	1.5	28
20	Bivariate boxplots, multiple outliers, multivariate transformations and discriminant analysis: The 1997 Hunter Lecture. <i>Environmetrics</i> , 1997, 8, 583-602.	1.4	27
21	Selecting a Biased-Coin Design. <i>Statistical Science</i> , 2014, 29, .	2.8	23
22	Fast calibrations of the forward search for testing multiple outliers in regression. <i>Advances in Data Analysis and Classification</i> , 2007, 1, 123-141.	1.4	22
23	Tests in the fan plot for robust, diagnostic transformations in regression. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2002, 60, 87-100.	3.5	21
24	Benchmark testing of algorithms for very robust regression: FS, LMS and LTS. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 2501-2512.	1.2	20
25	A Parametric Framework for the Comparison of Methods of Very Robust Regression. <i>Statistical Science</i> , 2014, 29, .	2.8	20
26	A Semi-Infinite Programming based algorithm for determining T-optimum designs for model discrimination. <i>Journal of Multivariate Analysis</i> , 2015, 135, 11-24.	1.0	19
27	Horwitz's rule, transforming both sides and the design of experiments for mechanistic models. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2003, 52, 261-278.	1.0	18
28	Optimum Design of Experiments for Enzyme Inhibition Kinetic Models. <i>Journal of Biopharmaceutical Statistics</i> , 2011, 21, 555-572.	0.8	18
29	Examples of the use of an equivalence theorem in constructing optimum experimental designs for random-effects nonlinear regression models. <i>Journal of Statistical Planning and Inference</i> , 2008, 138, 2595-2606.	0.6	16
30	The distribution of loss in two-treatment biased-coin designs. <i>Biostatistics</i> , 2003, 4, 179-193.	1.5	13
31	Robust methods for heteroskedastic regression. <i>Computational Statistics and Data Analysis</i> , 2016, 104, 209-222.	1.2	13
32	Designing for a Response Transformation Parameter. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 1997, 59, 111-124.	2.2	12
33	Regression Diagnostics for Binomial Data from the Forward Search. <i>Journal of the Royal Statistical Society: Series D (the Statistician)</i> , 2001, 50, 63-78.	0.2	12
34	The forward search and data visualisation. <i>Computational Statistics</i> , 2004, 19, 29-54.	1.5	12
35	Cluster detection and clustering with random start forward searches. <i>Journal of Applied Statistics</i> , 2018, 45, 777-798.	1.3	12
36	Robust Regression with Density Power Divergence: Theory, Comparisons, and Data Analysis. <i>Entropy</i> , 2020, 22, 399.	2.2	12

#	ARTICLE	IF	CITATIONS
37	Robust model selection with flexible trimming. Computational Statistics and Data Analysis, 2010, 54, 3300-3312.	1.2	11
38	Rejoinder to the discussion of "The power of monitoring: how to make the most of a contaminated multivariate sample". Statistical Methods and Applications, 2018, 27, 661-666.	1.2	11
39	Random Start Forward Searches with Envelopes for Detecting Clusters in Multivariate Data. , 2006, , 163-171.		11
40	The Use of Prior Information in Very Robust Regression for Fraud Detection. International Statistical Review, 2018, 86, 205-218.	1.9	10
41	Efficient robust methods via monitoring for clustering and multivariate data analysis. Pattern Recognition, 2019, 88, 246-260.	8.1	10
42	Grouped Likelihood for the Shifted Power Transformation. Journal of the Royal Statistical Society Series B: Methodological, 1991, 53, 473-482.	0.7	9
43	Econometric Applications of the Forward Search in Regression: Robustness, Diagnostics, and Graphics. Econometric Reviews, 2008, 28, 21-39.	1.1	9
44	Robust Bayesian regression with the forward search: theory and data analysis. Test, 2017, 26, 869-886.	1.1	9
45	A Robust and Diagnostic Information Criterion for Selecting Regression Models. Journal of the Japan Statistical Society, 2008, 38, 3-14.	0.1	9
46	Optimum Experimental Designs for Choosing Between Competitive and Non Competitive Models of Enzyme Inhibition. Communications in Statistics - Theory and Methods, 2012, 41, 2283-2296.	1.0	7
47	The Analysis of Transformations for Profit-and-Loss Data. Journal of the Royal Statistical Society Series C: Applied Statistics, 2020, 69, 251-275.	1.0	7
48	fsdaSAS: A Package for Robust Regression for Very Large Datasets Including the Batch Forward Search. Stats, 2021, 4, 327-347.	0.9	6
49	Robust Diagnostic Data Analysis: Transformations in Regression. Technometrics, 2000, 42, 384.	1.9	6
50	Automatic robust Box-Cox and extended Yeo-Johnson transformations in regression. Statistical Methods and Applications, 2023, 32, 75-102.	1.2	6
51	Robust Optimum Designs for Transformation of the Responses in a Multivariate Chemical Kinetic Model. Technometrics, 2005, 47, 478-487.	1.9	5
52	Bias and loss: the two sides of a biased coin. Statistics in Medicine, 2012, 31, 3494-3503.	1.6	5
53	Building Regression Models with the Forward Search. Journal of Computing and Information Technology, 2007, 15, 287.	0.3	5
54	Problems and Challenges in the Analysis of Complex Data: Static and Dynamic Approaches. , 2012, , 145-157.		4

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55	Reply to discussion of “The Forward Search: Theory and data analysis” Journal of the Korean Statistical Society, 2010, 39, 161-163.	0.4	3
56	Comments on: Data science, big data and statistics. Test, 2019, 28, 349-352.	1.1	3
57	A model-based framework assisting the design of vapor-liquid equilibrium experimental plans. Computers and Chemical Engineering, 2021, 145, 107168.	3.8	3
58	GENERALIZED LINEAR MODELS AND RESPONSE TRANSFORMATION. , 2006, , 173-202.		3
59	Efficiencies for optimum designs when transforming the response in nonlinear models with nonconstant variance. Metrika, 2005, 62, 127-138.	0.8	2
60	Optimal response and covariate-adaptive biased-coin designs for clinical trials with continuous multivariate or longitudinal responses. Computational Statistics and Data Analysis, 2017, 113, 297-310.	1.2	2
61	Optimal Design of Experiments for Implicit Models. Journal of the American Statistical Association, 2022, 117, 1424-1437.	3.1	2
62	Optimum Experiments with Sets of Treatment Combinations. Contributions To Statistics, 2016, , 19-26.	0.2	2
63	Some Perspectives on Multivariate Outlier Detection. Studies in Classification, Data Analysis, and Knowledge Organization, 2011, , 231-238.	0.2	2
64	Finding the Number of Disparate Clusters with Background Contamination. Studies in Classification, Data Analysis, and Knowledge Organization, 2015, , 29-42.	0.2	2
65	Optimum and other response surface designs. Comments on “Response Surface Design Evaluation and Comparison” by Anderson-Cook, Borror and Montgomery. Journal of Statistical Planning and Inference, 2009, 139, 662-668.	0.6	1
66	Discussion of “Asymptotic Theory of Outlier Detection Algorithms for Linear Time Series Regression Models” by Johansen and Nielsen. Scandinavian Journal of Statistics, 2016, 43, 349-352.	1.4	1
67	Optimal Design of Experiments for Liquid–Liquid Equilibria Characterization via Semidefinite Programming. Processes, 2019, 7, 834.	2.8	1
68	Statistical and Proactive Analysis of an Inter-Laboratory Comparison: The Radiocarbon Dating of the Shroud of Turin. Entropy, 2020, 22, 926.	2.2	1
69	Optimal experimental design for linear time invariant state–space models. Statistics and Computing, 2021, 31, 1.	1.5	1
70	How to Marry Robustness and Applied Statistics. , 2016, , 51-64.		1
71	The Forward Search. , 2002, , 587-592.		1
72	Robust Clustering for Performance Evaluation. Studies in Classification, Data Analysis, and Knowledge Organization, 2010, , 381-390.	0.2	1

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73	The Selection of ARIMA Models With or Without Regressors. SSRN Electronic Journal, 2012, , .	0.4	0
74	Optimum designs for the equality of parameters in enzyme inhibition kinetic models. Journal of Statistical Planning and Inference, 2014, 144, 47-54.	0.6	0
75	Hubert, Rousseeuw and Segaert: multivariate functional outlier detection. Statistical Methods and Applications, 2015, 24, 257-261.	1.2	0
76	Optimum design and sequential treatment allocation in an experiment in deep brain stimulation with sets of treatment combinations. Statistics in Medicine, 2017, 36, 4804-4815.	1.6	0
77	Optimal designs of experiments for non-isothermal kinetic rates: analysis of different strategies. Optimization and Engineering, 2019, 20, 725-748.	2.4	0
78	Robust Experimental Design for Choosing Between Models of Enzyme Inhibition. Contributions To Statistics, 2013, , 11-18.	0.2	0