

Marie Davidian

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

6,605
citations

39
h-index

80
g-index

118
ext. papers

7,473
ext. citations

3
avg. IF

5.96
L-index

#	Paper	IF	Citations
108	Stratification and weighting via the propensity score in estimation of causal treatment effects: a comparative study. <i>Statistics in Medicine</i> , 2004 , 23, 2937-60	2.3	888
107	Comment: Demystifying Double Robustness: A Comparison of Alternative Strategies for Estimating a Population Mean from Incomplete Data. <i>Statistical Science</i> , 2007 , 22, 569-573	2.4	585
106	Doubly robust estimation of causal effects. <i>American Journal of Epidemiology</i> , 2011 , 173, 761-7	3.8	391
105	A robust method for estimating optimal treatment regimes. <i>Biometrics</i> , 2012 , 68, 1010-8	1.8	244
104	Nonlinear models for repeated measurement data: An overview and update. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2003 , 8, 387-419	1.9	232
103	Differences in viral dynamics between genotypes 1 and 2 of hepatitis C virus. <i>Journal of Infectious Diseases</i> , 2000 , 182, 28-35	7	196
102	Linear mixed models with flexible distributions of random effects for longitudinal data. <i>Biometrics</i> , 2001 , 57, 795-802	1.8	185
101	Covariate adjustment for two-sample treatment comparisons in randomized clinical trials: a principled yet flexible approach. <i>Statistics in Medicine</i> , 2008 , 27, 4658-77	2.3	177
100	The nonlinear mixed effects model with a smooth random effects density. <i>Biometrika</i> , 1993 , 80, 475-488		169
99	Improving efficiency and robustness of the doubly robust estimator for a population mean with incomplete data. <i>Biometrika</i> , 2009 , 96, 723-734	2	165
98	A semiparametric likelihood approach to joint modeling of longitudinal and time-to-event data. <i>Biometrics</i> , 2002 , 58, 742-53	1.8	151
97	The analysis of multivariate longitudinal data: a review. <i>Statistical Methods in Medical Research</i> , 2014 , 23, 42-59	2.3	149
96	Estimating Optimal Treatment Regimes from a Classification Perspective. <i>Stat</i> , 2012 , 1, 103-114	0.7	138
95	Improving efficiency of inferences in randomized clinical trials using auxiliary covariates. <i>Biometrics</i> , 2008 , 64, 707-715	1.8	132
94	HIV dynamics: Modeling, data analysis, and optimal treatment protocols. <i>Journal of Computational and Applied Mathematics</i> , 2005 , 184, 10-49	2.4	131
93	Randomized COMparison of platelet inhibition with abciximab, tiRoFiban and eptifibatide during percutaneous coronary intervention in acute coronary syndromes: the COMPARE trial. Comparison Of Measurements of Platelet aggregation with Aggrastat, Reopro, and Eptifibatide. <i>Circulation</i> , 2002 , 106, 1470-6	16.7	116
92	Human immunodeficiency virus type 1-specific cytotoxic T lymphocyte activity is inversely correlated with HIV type 1 viral load in HIV type 1-infected long-term survivors. <i>AIDS Research and Human Retroviruses</i> , 1999 , 15, 1219-28	1.6	114

91	Q- and A-learning Methods for Estimating Optimal Dynamic Treatment Regimes. <i>Statistical Science</i> , 2014 , 29, 640-661	2.4	110
90	Robust estimation of optimal dynamic treatment regimes for sequential treatment decisions. <i>Biometrika</i> , 2013 , 100,	2	100
89	Marginal structural models for analyzing causal effects of time-dependent treatments: an application in perinatal epidemiology. <i>American Journal of Epidemiology</i> , 2004 , 159, 926-34	3.8	94
88	Estimating the Parameters in the Cox Model When Covariate Variables are Measured with Error. <i>Biometrics</i> , 1998 , 54, 1407	1.8	94
87	Smooth nonparametric maximum likelihood estimation for population pharmacokinetics, with application to quinidine. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1992 , 20, 529-56		87
86	Estimation of survival distributions of treatment policies in two-stage randomization designs in clinical trials. <i>Biometrics</i> , 2002 , 58, 48-57	1.8	86
85	An estimator for the proportional hazards model with multiple longitudinal covariates measured with error. <i>Biostatistics</i> , 2002 , 3, 511-28	3.7	82
84	A Monte Carlo EM algorithm for generalized linear mixed models with flexible random effects distribution. <i>Biostatistics</i> , 2002 , 3, 347-60	3.7	69
83	Variance functions and the minimum detectable concentration in assays. <i>Biometrika</i> , 1988 , 75, 549-556	2	68
82	Population Pharmacokinetic/Pharmacodynamic Methodology and Applications: A Bibliography. <i>Biometrics</i> , 1994 , 50, 566	1.8	58
81	Using decision lists to construct interpretable and parsimonious treatment regimes. <i>Biometrics</i> , 2015 , 71, 895-904	1.8	57
80	Survival Benefit of Lung Transplantation in the Modern Era of Lung Allocation. <i>Annals of the American Thoracic Society</i> , 2017 , 14, 172-181	4.7	56
79	A Two-Step Approach to Measurement Error in Time-Dependent Covariates in Nonlinear Mixed-Effects Models, with Application to IGF-I Pharmacokinetics. <i>Journal of the American Statistical Association</i> , 1997 , 92, 436-448	2.8	55
78	Some general estimation methods for nonlinear mixed-effects models. <i>Journal of Biopharmaceutical Statistics</i> , 1993 , 3, 23-55	1.3	55
77	Semiparametric Estimation of Treatment Effect in a Pretest-Posttest Study with Missing Data. <i>Statistical Science</i> , 2005 , 20, 261-301	2.4	53
76	A Placebo-Controlled, Prospective, Randomized Clinical Trial of Polyethylene Glycol and Methylprednisolone Sodium Succinate in Dogs with Intervertebral Disk Herniation. <i>Journal of Veterinary Internal Medicine</i> , 2016 , 30, 206-14	3.1	46
75	Regression and calibration with nonconstant error variance. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1990 , 9, 231-248	3.8	46
74	Semiparametric estimation of treatment effect in a pretest-posttest study. <i>Biometrics</i> , 2003 , 59, 1046-55.8		45

73	Consequences of misspecifying assumptions in nonlinear mixed effects models. <i>Computational Statistics and Data Analysis</i> , 2000 , 34, 139-164	1.6	43
72	Some Simple Methods for Estimating Intraindividual Variability in Nonlinear Mixed Effects Models. <i>Biometrics</i> , 1993 , 49, 59	1.8	41
71	Gene-trait similarity regression for multimarker-based association analysis. <i>Biometrics</i> , 2009 , 65, 822-32	1.8	39
70	The Effect of Serial Dilution Error on Calibration Inference in Immunoassay. <i>Biometrics</i> , 1998 , 54, 19	1.8	39
69	Modelling HIV immune response and validation with clinical data. <i>Journal of Biological Dynamics</i> , 2008 , 2, 357-85	2.4	38
68	Estimation and prediction with HIV-treatment interruption data. <i>Bulletin of Mathematical Biology</i> , 2007 , 69, 563-84	2.1	38
67	Conditional estimation for generalized linear models when covariates are subject-specific parameters in a mixed model for longitudinal measurements. <i>Biometrics</i> , 2004 , 60, 1-7	1.8	36
66	Comment: Demystifying Double Robustness: A Comparison of Alternative Strategies for Estimating a Population Mean from Incomplete Data. <i>Statistical Science</i> , 2007 , 22,	2.4	36
65	"Smooth" semiparametric regression analysis for arbitrarily censored time-to-event data. <i>Biometrics</i> , 2008 , 64, 567-76	1.8	33
64	An Inverse Problem Statistical Methodology Summary 2009 , 249-302		33
63	Differential treatment benefit of platelet glycoprotein IIb/IIIa inhibition with percutaneous coronary intervention versus medical therapy for acute coronary syndromes: exploration of methods. <i>Circulation</i> , 2004 , 109, 641-6	16.7	30
62	Estimating data transformations in nonlinear mixed effects models. <i>Biometrics</i> , 2000 , 56, 65-72	1.8	28
61	Interpretable Dynamic Treatment Regimes. <i>Journal of the American Statistical Association</i> , 2018 , 113, 1541-1549	2.8	28
60	Denaturation and Aggregation of Chicken Myosin Isoforms. <i>Journal of Agricultural and Food Chemistry</i> , 1996 , 44, 1435-1440	5.7	27
59	Pyrimethamine pharmacokinetics in human immunodeficiency virus-positive patients seropositive for <i>Toxoplasma gondii</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 1996 , 40, 1360-5	5.9	27
58	A note on covariate measurement error in nonlinear mixed effects models. <i>Biometrika</i> , 1996 , 83, 801-812		27
57	Improved doubly robust estimation when data are monotonely coarsened, with application to longitudinal studies with dropout. <i>Biometrics</i> , 2011 , 67, 536-45	1.8	26
56	Demographic and historical findings, including exposure to environmental tobacco smoke, in dogs with chronic cough. <i>Journal of Veterinary Internal Medicine</i> , 2010 , 24, 825-31	3.1	26

55	Low serum antibacterial activity coincides with increased prevalence of shell disease in blue crabs <i>Callinectes sapidus</i> . <i>Diseases of Aquatic Organisms</i> , 1994 , 19, 121-128	1.7	26
54	Bootstrap-Adjusted Calibration Confidence Intervals for Immunoassay. <i>Journal of the American Statistical Association</i> , 1997 , 92, 278-290	2.8	25
53	On Estimation of Optimal Treatment Regimes For Maximizing -Year Survival Probability. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2017 , 79, 1165-1185	3.9	23
52	The Effect of Variance Function Estimation on Nonlinear Calibration Inference in Immunoassay Data. <i>Biometrics</i> , 1996 , 52, 158	1.8	23
51	Latent-model robustness in structural measurement error models. <i>Biometrika</i> , 2006 , 93, 53-64	2	23
50	Assays for recombinant proteins: a problem in non-linear calibration. <i>Statistics in Medicine</i> , 1994 , 13, 1165-79	2.3	23
49	Mixed model analysis of censored longitudinal data with flexible random-effects density. <i>Biostatistics</i> , 2012 , 13, 61-73	3.7	22
48	On random sample size, ignorability, ancillarity, completeness, separability, and degeneracy: sequential trials, random sample sizes, and missing data. <i>Statistical Methods in Medical Research</i> , 2014 , 23, 11-41	2.3	20
47	Using mathematical modeling and control to develop structured treatment interruption strategies for HIV infection. <i>Drug and Alcohol Dependence</i> , 2007 , 88 Suppl 2, S41-51	4.9	18
46	Estimation of variance functions in assays with possibly unequal replication and nonnormal data. <i>Biometrika</i> , 1990 , 77, 43-54	2	17
45	Latent-model robustness in joint models for a primary endpoint and a longitudinal process. <i>Biometrics</i> , 2009 , 65, 719-27	1.8	16
44	Smoothing spline-based score tests for proportional hazards models. <i>Biometrics</i> , 2006 , 62, 803-12	1.8	16
43	Optimizing delivery of a behavioral pain intervention in cancer patients using a sequential multiple assignment randomized trial SMART. <i>Contemporary Clinical Trials</i> , 2017 , 57, 51-57	2.3	15
42	A moment-adjusted imputation method for measurement error models. <i>Biometrics</i> , 2011 , 67, 1461-70	1.8	15
41	Non-linear Models for Longitudinal Data. <i>American Statistician</i> , 2009 , 63, 378-388	5	15
40	Robust two-stage estimation in hierarchical nonlinear models. <i>Biometrics</i> , 2001 , 57, 266-72	1.8	15
39	Correcting for measurement error in individual-level covariates in nonlinear mixed effects models. <i>Biometrics</i> , 2000 , 56, 368-75	1.8	15
38	A Model for HCMV Infection in Immunosuppressed Patients. <i>Mathematical and Computer Modelling</i> , 2009 , 49, 1653-1663		14

37	Using pilot data to size a two-arm randomized trial to find a nearly optimal personalized treatment strategy. <i>Statistics in Medicine</i> , 2016 , 35, 1245-56	2.3	14
36	Inference on treatment effects from a randomized clinical trial in the presence of premature treatment discontinuation: the SYNERGY trial. <i>Biostatistics</i> , 2011 , 12, 258-69	3.7	13
35	A Two-Step Approach to Measurement Error in Time-Dependent Covariates in Nonlinear Mixed-Effects Models, with Application to IGF-I Pharmacokinetics		12
34	Optimal two-stage dynamic treatment regimes from a classification perspective with censored survival data. <i>Biometrics</i> , 2018 , 74, 1180-1192	1.8	11
33	Assessing the causal effect of organ transplantation on the distribution of residual lifetime. <i>Biometrics</i> , 2013 , 69, 820-9	1.8	9
32	Calibration Inference Based on Multiple Runs of an Immunoassay. <i>Biometrics</i> , 1997 , 53, 1304	1.8	9
31	Likelihood and Pseudo-likelihood Methods for Semiparametric Joint Models for a Primary Endpoint and Longitudinal Data. <i>Computational Statistics and Data Analysis</i> , 2007 , 51, 5776-5790	1.6	9
30	Smooth Inference for survival functions with arbitrarily censored data. <i>Statistics in Medicine</i> , 2008 , 27, 5421-39	2.3	9
29	Therapeutic effects of diethylcarbamazine and 3Razido-3Rdeoxythymidine on feline leukemia virus lymphoma formation. <i>Veterinary Immunology and Immunopathology</i> , 1995 , 46, 181-94	2	9
28	Testing homogeneity of intra-run variance parameters in immunoassay. <i>Statistics in Medicine</i> , 1997 , 16, 1765-76	2.3	7
27	Analysis of repeated measurement data using the nonlinear mixed effects model. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1993 , 20, 1-24	3.8	7
26	Variable selection for covariate-adjusted semiparametric inference in randomized clinical trials. <i>Statistics in Medicine</i> , 2012 , 31, 3789-804	2.3	6
25	Likelihood and conditional likelihood inference for generalized additive mixed models for clustered data. <i>Journal of Multivariate Analysis</i> , 2004 , 91, 90-106	1.4	6
24	Estimation After a Group Sequential Trial. <i>Statistics in Biosciences</i> , 2015 , 7, 187-205	1.5	5
23	Robust two-stage approach to repeated measurements analysis of chronic ozone exposure in rats. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2003 , 8, 438-454	1.9	5
22	Joint models for longitudinal data. <i>Chapman & Hall/CRC Interdisciplinary Statistics Series</i> , 2008 , 319-326		5
21	Bootstrap-Adjusted Calibration Confidence Intervals for Immunoassay		5
20	The analysis of multivariate longitudinal data: A review. <i>Statistical Methods in Medical Research</i> , 2017 , 26, 112	2.3	4

19	Moment Adjusted Imputation for Multivariate Measurement Error Data with Applications to Logistic Regression. <i>Computational Statistics and Data Analysis</i> , 2013 , 67, 15-24	1.6	3
18	The International Year of Statistics: A Celebration and A Call to Action. <i>Journal of the American Statistical Association</i> , 2013 , 108, 1141-1146	2.8	3
17	SNP_NLMM: A SAS Macro to Implement a Flexible Random Effects Density for Generalized Linear and Nonlinear Mixed Models. <i>Journal of Statistical Software</i> , 2014 , 56, 2	7.3	3
16	Dynamic treatment regimes, past, present, and future: A conversation with experts. <i>Statistical Methods in Medical Research</i> , 2017 , 26, 1605-1610	2.3	2
15	Discussion of "Combining biomarkers to optimize patient treatment recommendation". <i>Biometrics</i> , 2014 , 70, 707-10	1.8	2
14	Estimating vaccine efficacy over time after a randomized study is unblinded. <i>Biometrics</i> , 2021 ,	1.8	2
13	Collaboration To Meet the Statistical Needs in the Chemistry Curriculum. <i>Journal of Chemical Education</i> , 2014 , 91, 12-12	2.4	1
12	Properties of Estimators in Exponential Family Settings with Observation-based Stopping Rules. <i>Journal of Biometrics & Biostatistics</i> , 2016 , 7,	4	1
11	SurgeonsReconomic profiles: can we get the "right" answers?. <i>Journal of Medical Systems</i> , 2005 , 29, 111-34	3.4	1
10	Research Methods for Clinical Trials in Personalized Medicine: A Systematic Review 2014 , 659-684		1
9	Rejoinder: Estimating vaccine efficacy over time after a randomized study is unblinded. <i>Biometrics</i> , 2021 ,	1.8	1
8	Special Issue of Journal of Biopharmaceutical Statistics dedicated to 2016 Trends and Innovations in Clinical Trial Statistics (TICTS) Conference. <i>Journal of Biopharmaceutical Statistics</i> , 2017 , 27, 357	1.3	
7	Optimal Dynamic Treatment Regimes 2016 , 1-7		
6	Building the Biostatistics Pipeline: Summer Institutes for Training in Biostatistics (SIBS). <i>Chance</i> , 2013 , 26, 4-9	1	
5	Discussion of "Connections Between Survey Calibration Estimators and Semiparametric Models for Incomplete Data" by T. Lumley, P.A. Shaw & J.Y. Dai. <i>International Statistical Review</i> , 2011 , 79, 221-223	1.4	
4	Nonlinear Models for Repeated Measurement Data. <i>Journal of the American Statistical Association</i> , 1997 , 92, 789	2.8	
3	Discussion on "Statistical Issues Arising in the Women's Health Initiative". <i>Biometrics</i> , 2005 , 61, 933-935	1.8	
2	Bias Reduction in Logistic Regression with Estimated Variance Predictors. <i>Lecture Notes in Statistics</i> , 2013 , 33-51	2.9	

1 Q-Learning **2018**, 1-10