

# Robert Tibshirani

## List of Publications by Citations

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**Version:** 2024-04-27

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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.

134  
papers

47,439  
citations

49  
h-index

150  
g-index

150  
ext. papers

58,721  
ext. citations

7.8  
avg, IF

8  
L-index

#	Paper	IF	Citations
134	Regression Shrinkage and Selection Via the Lasso. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , <b>1996</b> , 58, 267-288		7587
133	Regularization Paths for Generalized Linear Models via Coordinate Descent. <i>Journal of Statistical Software</i> , <b>2010</b> , 33,	7.3	6603
132	The Elements of Statistical Learning. <i>Springer Series in Statistics</i> , <b>2001</b> ,	0.3	6424
131	Least angle regression. <i>Annals of Statistics</i> , <b>2004</b> , 32, 407	3.2	5029
130	Regularization Paths for Generalized Linear Models via Coordinate Descent. <i>Journal of Statistical Software</i> , <b>2010</b> , 33, 1-22	7.3	3855
129	Estimating the number of clusters in a data set via the gap statistic. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2001</b> , 63, 411-423	3.9	2804
128	Diagnosis of multiple cancer types by shrunken centroids of gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 6567-72	11.5	2252
127	The lasso method for variable selection in the Cox model. <i>Statistics in Medicine</i> , <b>1997</b> , 16, 385-95	2.3	1900
126	Sparse Principal Component Analysis. <i>Journal of Computational and Graphical Statistics</i> , <b>2006</b> , 15, 265-286.	4	1510
125	Empirical Bayes Analysis of a Microarray Experiment. <i>Journal of the American Statistical Association</i> , <b>2001</b> , 96, 1151-1160	2.8	1156
124	Increasing value and reducing waste in research design, conduct, and analysis. <i>Lancet, The</i> , <b>2014</b> , 383, 166-75	40	870
123	Regularization Paths for Cox's Proportional Hazards Model via Coordinate Descent. <i>Journal of Statistical Software</i> , <b>2011</b> , 39, 1-13	7.3	826
122	A Sparse-Group Lasso. <i>Journal of Computational and Graphical Statistics</i> , <b>2013</b> , 22, 231-245	1.4	618
121	Prediction by Supervised Principal Components. <i>Journal of the American Statistical Association</i> , <b>2006</b> , 101, 119-137	2.8	415
120	Flexible Discriminant Analysis by Optimal Scoring. <i>Journal of the American Statistical Association</i> , <b>1994</b> , 89, 1255-1270	2.8	392
119	Generalized Additive Models: Some Applications. <i>Journal of the American Statistical Association</i> , <b>1987</b> , 82, 371-386	2.8	365
118	A SIGNIFICANCE TEST FOR THE LASSO. <i>Annals of Statistics</i> , <b>2014</b> , 42, 413-468	3.2	325

117	Cluster Validation by Prediction Strength. <i>Journal of Computational and Graphical Statistics</i> , <b>2005</b> , 14, 511-528	1.4	322
116	Local Likelihood Estimation. <i>Journal of the American Statistical Association</i> , <b>1987</b> , 82, 559-567	2.8	276
115	Defining the features and duration of antibody responses to SARS-CoV-2 infection associated with disease severity and outcome. <i>Science Immunology</i> , <b>2020</b> , 5,	28	230
114	An immune clock of human pregnancy. <i>Science Immunology</i> , <b>2017</b> , 2,	28	209
113	Circulating Tumor DNA Measurements As Early Outcome Predictors in Diffuse Large B-Cell Lymphoma. <i>Journal of Clinical Oncology</i> , <b>2018</b> , 36, 2845-2853	2.2	164
112	A Comparison of Some Error Estimates for Neural Network Models. <i>Neural Computation</i> , <b>1996</b> , 8, 152-163.	9	161
111	A Simple Method for Estimating Interactions between a Treatment and a Large Number of Covariates. <i>Journal of the American Statistical Association</i> , <b>2014</b> , 109, 1517-1532	2.8	158
110	Integrating genomic features for non-invasive early lung cancer detection. <i>Nature</i> , <b>2020</b> , 580, 245-251	50.4	147
109	Flexible Discriminant Analysis by Optimal Scoring		122
108	Combining Estimates in Regression and Classification. <i>Journal of the American Statistical Association</i> , <b>1996</b> , 91, 1641-1650	2.8	119
107	Estimating Transformations for Regression via Additivity and Variance Stabilization. <i>Journal of the American Statistical Association</i> , <b>1988</b> , 83, 394-405	2.8	119
106	Noninvasive blood tests for fetal development predict gestational age and preterm delivery. <i>Science</i> , <b>2018</b> , 360, 1133-1136	33.3	116
105	Sustained outcomes in oral immunotherapy for peanut allergy (POISED study): a large, randomised, double-blind, placebo-controlled, phase 2 study. <i>Lancet, The</i> , <b>2019</b> , 394, 1437-1449	40	106
104	Local Likelihood Estimation		91
103	Pancancer analysis of DNA methylation-driven genes using MethylMix. <i>Genome Biology</i> , <b>2015</b> , 16, 17	18.3	86
102	The Bootstrap Method for Assessing Statistical Accuracy. <i>Behaviormetrika</i> , <b>1985</b> , 12, 1-35	1.3	86
101	Quantitative SD-OCT imaging biomarkers as indicators of age-related macular degeneration progression <b>2014</b> , 55, 7093-103		85
100	Dynamic Risk Profiling Using Serial Tumor Biomarkers for Personalized Outcome Prediction. <i>Cell</i> , <b>2019</b> , 178, 699-713.e19	56.2	84

99	Hierarchical Clustering With Prototypes via Minimax Linkage. <i>Journal of the American Statistical Association</i> , <b>2011</b> , 106, 1075-1084	2.8	80
98	Genetics of 35 blood and urine biomarkers in the UK Biobank. <i>Nature Genetics</i> , <b>2021</b> , 53, 185-194	36.3	78
97	Metabolic Markers and Statistical Prediction of Serous Ovarian Cancer Aggressiveness by Ambient Ionization Mass Spectrometry Imaging. <i>Cancer Research</i> , <b>2017</b> , 77, 2903-2913	10.1	77
96	Adaptive Principal Surfaces. <i>Journal of the American Statistical Association</i> , <b>1994</b> , 89, 53-64	2.8	69
95	Single-cell developmental classification of B cell precursor acute lymphoblastic leukemia at diagnosis reveals predictors of relapse. <i>Nature Medicine</i> , <b>2018</b> , 24, 474-483	50.5	68
94	TRANSPOSABLE REGULARIZED COVARIANCE MODELS WITH AN APPLICATION TO MISSING DATA IMPUTATION. <i>Annals of Applied Statistics</i> , <b>2010</b> , 4, 764-790	2.1	64
93	Results from the second year of a collaborative effort to forecast influenza seasons in the United States. <i>Epidemics</i> , <b>2018</b> , 24, 26-33	5.1	63
92	Bootstrap Confidence Intervals and Bootstrap Approximations. <i>Journal of the American Statistical Association</i> , <b>1987</b> , 82, 163-170	2.8	59
91	Generalized Additive Models: Some Applications		59
90	STANDARDIZATION AND THE GROUP LASSO PENALTY. <i>Statistica Sinica</i> , <b>2012</b> , 22, 983-1001	0.7	58
89	Multimomics modeling of the immunome, transcriptome, microbiome, proteome and metabolome adaptations during human pregnancy. <i>Bioinformatics</i> , <b>2019</b> , 35, 95-103	7.2	54
88	Landscape of monoallelic DNA accessibility in mouse embryonic stem cells and neural progenitor cells. <i>Nature Genetics</i> , <b>2017</b> , 49, 377-386	36.3	52
87	A comparison of statistical learning methods on the Gusto database. <i>Statistics in Medicine</i> , <b>1998</b> , 17, 2501-8	1.8	50
86	Impact of menstrual phase on false-negative mammograms in the canadian national breast screening study. <i>Cancer</i> , <b>1997</b> , 80, 720-724	6.4	49
85	Metabolic Dynamics and Prediction of Gestational Age and Time to Delivery in Pregnant Women. <i>Cell</i> , <b>2020</b> , 181, 1680-1692.e15	56.2	47
84	A proteomic clock of human pregnancy. <i>American Journal of Obstetrics and Gynecology</i> , <b>2018</b> , 218, 347.e1-347.e14	6.3	47
83	Multicenter Study Using Desorption-Electrospray-Ionization-Mass-Spectrometry Imaging for Breast-Cancer Diagnosis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 11324-11332	7.8	47
82	Some methods for heterogeneous treatment effect estimation in high dimensions. <i>Statistics in Medicine</i> , <b>2018</b> , 37, 1767-1787	2.3	46

81	Origins and clonal convergence of gastrointestinal IgE B cells in human peanut allergy. <i>Science Immunology</i> , <b>2020</b> , 5,	28	45
80	Food allergy and omics. <i>Journal of Allergy and Clinical Immunology</i> , <b>2018</b> , 141, 20-29	11.5	43
79	Nearly-Isotonic Regression. <i>Technometrics</i> , <b>2011</b> , 53, 54-61	1.4	41
78	Chemical Space Mimicry for Drug Discovery. <i>Journal of Chemical Information and Modeling</i> , <b>2017</b> , 57, 875-882	6.1	40
77	Estimating Transformations for Regression via Additivity and Variance Stabilization		38
76	Long-term course of patients with primary ocular adnexal MALT lymphoma: a large single-institution cohort study. <i>Blood</i> , <b>2017</b> , 129, 324-332	2.2	36
75	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. <i>Nature Aging</i> , <b>2021</b> , 1, 598-615		36
74	Proliferation tracing with single-cell mass cytometry optimizes generation of stem cell memory-like T cells. <i>Nature Biotechnology</i> , <b>2019</b> , 37, 259-266	44.5	33
73	Collaborative regression. <i>Biostatistics</i> , <b>2015</b> , 16, 326-38	3.7	32
72	Shaping of infant B cell receptor repertoires by environmental factors and infectious disease. <i>Science Translational Medicine</i> , <b>2019</b> , 11,	17.5	29
71	Model Search by Bootstrap Bumping $\square$ <i>Journal of Computational and Graphical Statistics</i> , <b>1999</b> , 8, 671-686	1.4	26
70	Adaptive Principal Surfaces		25
69	Genetics of 38 blood and urine biomarkers in the UK Biobank		25
68	Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions. <i>Nature Machine Intelligence</i> , <b>2020</b> , 2, 619-628	22.5	24
67	Inference with Transposable Data: Modeling the Effects of Row and Column Correlations. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2012</b> , 74, 721-743	3.9	22
66	A fast and scalable framework for large-scale and ultrahigh-dimensional sparse regression with application to the UK Biobank. <i>PLoS Genetics</i> , <b>2020</b> , 16, e1009141	6	22
65	THE LASSO METHOD FOR VARIABLE SELECTION IN THE COX MODEL <b>1997</b> , 16, 385		21
64	Data Shared Lasso: A Novel Tool to Discover Uplift. <i>Computational Statistics and Data Analysis</i> , <b>2016</b> , 101, 226-235	1.6	16

63	Identification of diagnostic metabolic signatures in clear cell renal cell carcinoma using mass spectrometry imaging. <i>International Journal of Cancer</i> , <b>2020</b> , 147, 256-265	7.5	14
62	Sparse regression and marginal testing using cluster prototypes. <i>Biostatistics</i> , <b>2016</b> , 17, 364-76	3.7	12
61	Bootstrap Confidence Intervals and Bootstrap Approximations		12
60	Log-ratio lasso: Scalable, sparse estimation for log-ratio models. <i>Biometrics</i> , <b>2019</b> , 75, 613-624	1.8	12
59	Pathophysiological significance and therapeutic targeting of germinal center kinase in diffuse large B-cell lymphoma. <i>Blood</i> , <b>2016</b> , 128, 239-48	2.2	10
58	CUSTOMIZED TRAINING WITH AN APPLICATION TO MASS SPECTROMETRIC IMAGING OF CANCER TISSUE. <i>Annals of Applied Statistics</i> , <b>2015</b> , 9, 1709-1725	2.1	10
57	Increased diversity of gut microbiota during active oral immunotherapy in peanut-allergic adults. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2021</b> , 76, 927-930	9.3	10
56	Transcriptional changes in peanut-specific CD4+ T cells over the course of oral immunotherapy. <i>Clinical Immunology</i> , <b>2020</b> , 219, 108568	9	8
55	A Pliable Lasso. <i>Journal of Computational and Graphical Statistics</i> , <b>2020</b> , 29, 215-225	1.4	8
54	Can auxiliary indicators improve COVID-19 forecasting and hotspot prediction?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	8
53	Survival in Follicular Lymphoma: The Stanford Experience, 1960-2003. <i>Blood</i> , <b>2007</b> , 110, 3428-3428	2.2	7
52	Fast Lasso method for large-scale and ultrahigh-dimensional Cox model with applications to UK Biobank. <i>Biostatistics</i> , <b>2020</b> ,	3.7	7
51	Post-selection point and interval estimation of signal sizes in Gaussian samples. <i>Canadian Journal of Statistics</i> , <b>2017</b> , 45, 128-148	0.4	6
50	De novo mutational signature discovery in tumor genomes using SparseSignatures. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009119	5	6
49	Polygenic risk modeling with latent trait-related genetic components. <i>European Journal of Human Genetics</i> , <b>2021</b> , 29, 1071-1081	5.3	6
48	Who is the Fastest Man in the World?. <i>American Statistician</i> , <b>1997</b> , 51, 106-111	5	5
47	Main Effects and Interactions in Mixed and Incomplete Data Frames. <i>Journal of the American Statistical Association</i> , <b>2020</b> , 115, 1292-1303	2.8	5
46	Gene expression deconvolution in linear space. <i>Nature Methods</i> , <b>2012</b> , 9, 9-9	21.6	4

45	Differentiation-Stage-Specific Expression of MicroRNAs in B-Lymphocytes and Diffuse Large B-Cell Lymphomas (DLBCL). <i>Blood</i> , <b>2008</b> , 112, 805-805	2.2	4
44	An open repository of real-time COVID-19 indicators.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
43	A General Framework for Estimation and Inference From Clusters of Features. <i>Journal of the American Statistical Association</i> , <b>2018</b> , 113, 280-293	2.8	3
42	A Strategy for Binary Description and Classification. <i>Journal of Computational and Graphical Statistics</i> , <b>1992</b> , 1, 3-20	1.4	3
41	Tumor-Infiltrating T Cells Are Not Predictive of Clinical Outcome in Follicular Lymphoma.. <i>Blood</i> , <b>2006</b> , 108, 824-824	2.2	3
40	Development of a Dynamic Model for Personalized Risk Assessment in Large B-Cell Lymphoma. <i>Blood</i> , <b>2017</b> , 130, 826-826	2.2	3
39	Modeling COVID19 mortality in the US: Community context and mobility matter		3
38	Penalized regression for left-truncated and right-censored survival data. <i>Statistics in Medicine</i> , <b>2021</b> , 40, 5487-5500	2.3	3
37	A comparison of statistical learning methods on the GUSTO database <b>1998</b> , 17, 2501		3
36	Prediction and outlier detection in classification problems. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> ,	3.9	3
35	Preliminary Report on a Phase I/II Study of Intratumoral Injection of PF-3512676 (CpG 7909), a TLR9 Agonist, Combined with Radiation in Recurrent Low-Grade Lymphomas.. <i>Blood</i> , <b>2006</b> , 108, 2716-2716	2.2	2
34	LMO2 Protein Expression Predicts Survival in Patients with Diffuse Large B-Cell Lymphoma in the Pre- and Post-Rituximab Treatment Eras.. <i>Blood</i> , <b>2007</b> , 110, 52-52	2.2	2
33	The stanford prostate cancer calculator: Development and external validation of online nomograms incorporating PIRADS scores to predict clinically significant prostate cancer. <i>Urologic Oncology: Seminars and Original Investigations</i> , <b>2021</b> , 39, 831.e19-831.e27	2.8	2
32	Using Aggregate Patient Data at the Bedside via an On-Demand Consultation Service. <i>NEJM Catalyst</i> , <b>2021</b> , 2,	2.3	2
31	Reply to J. Wang et al. <i>Journal of Clinical Oncology</i> , <b>2019</b> , 37, 755-757	2.2	1
30	Post model-fitting exploration via a Next-Door Analysis. <i>Canadian Journal of Statistics</i> , <b>2020</b> , 48, 447-470	0.4	1
29	Genomic Feature Selection by Coverage Design Optimization. <i>Journal of Applied Statistics</i> , <b>2018</b> , 45, 2658-2676		1
28	Reply to D.R. Catchpole et al. <i>Journal of Clinical Oncology</i> , <b>2010</b> , 28, e725-e725	2.2	1

27	Discussion of Prediction, Estimation, and Attribution by Bradley Efron. <i>International Statistical Review</i> , <b>2020</b> , 88, S73	1.4	1
26	Paraffin-Based 6-Gene Model Predicts Outcome of Diffuse Large B-Cell Lymphoma Patients Treated with R-CHOP.. <i>Blood</i> , <b>2007</b> , 110, 49-49	2.2	1
25	Reluctant Generalised Additive Modelling. <i>International Statistical Review</i> , <b>2020</b> , 88, S205	1.4	1
24	Principal component-guided sparse regression. <i>Canadian Journal of Statistics</i> , <b>2021</b> , 49, 1222	0.4	1
23	Fast Numerical Optimization for Genome Sequencing Data in Population Biobanks. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	1
22	Sensitivity analysis for inference with partially identifiable covariance matrices. <i>Computational Statistics</i> , <b>2014</b> , 29, 529-546	1	0
21	Gene Expression Profiling Predicts Outcome in De Novo Acute Myeloid Leukemia (AML) with Normal Karyotype: Results of Children's Oncology Group (COG) Study POG #9421.. <i>Blood</i> , <b>2006</b> , 108, 1915-1915	2.2	0
20	Assessment of heterogeneous treatment effect estimation accuracy via matching. <i>Statistics in Medicine</i> , <b>2021</b> , 40, 3990-4013	2.3	0
19	Significant sparse polygenic risk scores across 813 traits in UK Biobank.. <i>PLoS Genetics</i> , <b>2022</b> , 18, e1010105	0.5	0
18	What is Cox's proportional hazards model?. <i>Significance</i> , <b>2022</b> , 19, 38-39	0.5	0
17	Discussion of Prediction, Estimation, and Attribution by Bradley Efron. <i>Journal of the American Statistical Association</i> , <b>2020</b> , 115, 665-666	2.8	
16	Statistical Measures for the Computer-Aided Diagnosis of Mammographic Masses. <i>Journal of Computational and Graphical Statistics</i> , <b>1999</b> , 8, 531-543	1.4	
15	Identification of Distinct inv(16) Subclasses in Adult Acute Myeloid Leukemia Based on Gene Expression Profiling.. <i>Blood</i> , <b>2004</b> , 104, 2037-2037	2.2	
14	The Percentage of Tumor-Infiltrating T Cells Is Not Correlated with Overall Survival in Follicular B-Cell Lymphomas.. <i>Blood</i> , <b>2004</b> , 104, 3262-3262	2.2	
13	Gene Expression Profiling and FLT3 Status Correlate with Outcome in De Novo Acute Myeloid Leukemia (AML) with Normal Karyotype: Results of Children's Oncology Group (COG) Study POG #9421.. <i>Blood</i> , <b>2005</b> , 106, 2372-2372	2.2	
12	Prognostic Gene-Expression Signatures in Adult Acute Myeloid Leukemia with Normal Karyotype.. <i>Blood</i> , <b>2005</b> , 106, 756-756	2.2	
11	A FLT3 Gene-Expression Signature Outperforms FLT3 Status in Predicting Clinical Outcome for Patients with Normal Karyotype AML.. <i>Blood</i> , <b>2006</b> , 108, 2311-2311	2.2	
10	Anti-Idiotypic Antibody Response after Vaccination Correlates with Better Overall Survival in Follicular Lymphoma.. <i>Blood</i> , <b>2007</b> , 110, 647-647	2.2	



- 9 Neither CD68+ Nor CD163+ Macrophages Are Associated with Decreased Survival in Follicular Lymphoma. *Blood*, **2008**, 112, 3747-3747 2.2
- 8 Lymphoma-Expressed VEGF-a, VEGFR-1, VEGFR-2, and Microvessel Density Are Not Predictive of Overall Survival in Follicular Lymphoma. *Blood*, **2008**, 112, 3767-3767 2.2
- 7 MicroRNA Are Useful Biomarkers for Prediction of Response to Therapy and Survival of Patients with Diffuse Large B-Cell Lymphoma.. *Blood*, **2009**, 114, 624-624 2.2
- 6 A fast and scalable framework for large-scale and ultrahigh-dimensional sparse regression with application to the UK Biobank **2020**, 16, e1009141
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- 2 A fast and scalable framework for large-scale and ultrahigh-dimensional sparse regression with application to the UK Biobank **2020**, 16, e1009141
- 1 A fast and scalable framework for large-scale and ultrahigh-dimensional sparse regression with application to the UK Biobank **2020**, 16, e1009141