Robert Tibshirani

List of Publications by Year
in descending order

118 papers	87,720 citations	20432 56 h-index	13681 121 g-index
152 all docs	152 docs citations	152 times ranked	102064 citing authors

#	Article	IF	Citations
1	Disease diagnostics using machine learning of B cell and T cell receptor sequences. Science, 2025, 387, .	38.2	2
2	Artificial Intelligence Identifies Factors Associated with Blood Loss and Surgical Experience in Cholecystectomy. , 2024, 1, .		4
3	A tissue atlas of ulcerative colitis revealing evidence of sex-dependent differences in disease-driving inflammatory cell types and resistance to TNF inhibitor therapy. Science Advances, 2023, 9, .	11.3	17
4	Fast Lasso method for large-scale and ultrahigh-dimensional Cox model with applications to UK Biobank. Biostatistics, 2022, 23, 522-540.	2.1	24
5	Prediction and Outlier Detection in Classification Problems. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2022, 84, 524-546.	2.9	14
6	Significant sparse polygenic risk scores across 813 traits in UK Biobank. PLoS Genetics, 2022, 18, e1010105.	3.3	52
7	What is Cox's proportional hazards model?. Significance, 2022, 19, 38-39.	0.3	1
8	ARTERIAL THROMBOSIS- A COMPLICATION OF COVID-19 PNEUMONIA: A CASE SERIES REPORT. , 2022, , 49-52.		0
9	Increased diversity of gut microbiota during active oral immunotherapy in peanutâ€allergic adults. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 927-930.	7.6	22
10	Genetics of 35 blood and urine biomarkers in the UK Biobank. Nature Genetics, 2021, 53, 185-194.	16.3	388
11	Polygenic risk modeling with latent trait-related genetic components. European Journal of Human Genetics, 2021, 29, 1071-1081.	3.1	10
12	Assessment of heterogeneous treatment effect estimation accuracy via matching. Statistics in Medicine, 2021, 40, 3990-4013.	1.7	5
13	Principal componentâ€guided sparse regression. Canadian Journal of Statistics, 2021, 49, 1222-1257.	0.8	6
14	MassExplorer: a computational tool for analyzing desorption electrospray ionization mass spectrometry data. Bioinformatics, 2021, 37, 3688-3690.	5.0	4
15	Fast numerical optimization for genome sequencing data in population biobanks. Bioinformatics, 2021, 37, 4148-4155.	5.0	10
16	De novo mutational signature discovery in tumor genomes using SparseSignatures. PLoS Computational Biology, 2021, 17, e1009119.	3.3	18
17	The stanford prostate cancer calculator: Development and external validation of online nomograms incorporating PIRADS scores to predict clinically significant prostate cancer. Urologic Oncology: Seminars and Original Investigations, 2021, 39, 831.e19-831.e27.	1.9	16
18	Penalized regression for leftâ€truncated and rightâ€censored survival data. Statistics in Medicine, 2021, 40, 5487-5500.	1.7	29

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19	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. Nature Aging, 2021, 1, 598-615.	8.5	263
20	Using Aggregate Patient Data at the Bedside via an On-Demand Consultation Service. NEJM Catalyst, 2021, 2, .	0.9	8
21	Can auxiliary indicators improve COVID-19 forecasting and hotspot prediction?. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.7	31
22	An open repository of real-time COVID-19 indicators. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.7	32
23	Main Effects and Interactions in Mixed and Incomplete Data Frames. Journal of the American Statistical Association, 2020, 115, 1292-1303.	3.5	12
24	A Pliable Lasso. Journal of Computational and Graphical Statistics, 2020, 29, 215-225.	2.0	20
25	Identification of diagnostic metabolic signatures in clear cell renal cell carcinoma using mass spectrometry imaging. International Journal of Cancer, 2020, 147, 256-265.	4.5	45
26	Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions. Nature Machine Intelligence, 2020, 2, 619-628.	17.4	55
27	Transcriptional changes in peanut-specific CD4+ T cells over the course of oral immunotherapy. Clinical Immunology, 2020, 219, 108568.	2.2	27
28	Reluctant Generalised Additive Modelling. International Statistical Review, 2020, 88, .	2.3	8
29	Defining the features and duration of antibody responses to SARS-CoV-2 infection associated with disease severity and outcome. Science Immunology, 2020, 5, .	14.0	344
30	Discussion of â€œPrediction, Estimation, and Attributionâ€•by Bradley Efron. Journal of the American Statistical Association, 2020, 115, 665-666.	3.5	0
31	Origins and clonal convergence of gastrointestinal IgE ⁺ B cells in human peanut allergy. Science Immunology, 2020, 5, .	14.0	105
32	Integrating genomic features for non-invasive early lung cancer detection. Nature, 2020, 580, 245-251.	40.1	453
33	Post modelâ€fitting exploration via a â€œNextâ€Doorâ€•analysis. Canadian Journal of Statistics, 2020, 48, 447-470.	0.8	4
34	Metabolic Dynamics and Prediction of Gestational Age and Time to Delivery in Pregnant Women. Cell, 2020, 181, 1680-1692.e15.	35.1	177
35	Discussion of â€œPrediction, Estimation, and Attributionâ€•by Bradley Efron. International Statistical Review, 2020, 88, .	2.3	2
36	A fast and scalable framework for large-scale and ultrahigh-dimensional sparse regression with application to the UK Biobank. PLoS Genetics, 2020, 16, e1009141.	3.3	64

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37	Multiomics modeling of the immunome, transcriptome, microbiome, proteome and metabolome adaptations during human pregnancy. Bioinformatics, 2019, 35, 95-103.	5.0	140
38	Dynamic Risk Profiling Using Serial Tumor Biomarkers for Personalized Outcome Prediction. Cell, 2019, 178, 699-713.e19.	35.1	151
39	Sustained outcomes in oral immunotherapy for peanut allergy (POISED study): a large, randomised, double-blind, placebo-controlled, phase 2 study. Lancet, The, 2019, 394, 1437-1449.	35.3	244
40	Reply to J. Wang et al. Journal of Clinical Oncology, 2019, 37, 755-757.	17.1	2
41	Shaping of infant B cell receptor repertoires by environmental factors and infectious disease. Science Translational Medicine, 2019, 11, .	13.1	51
42	Proliferation tracing with single-cell mass cytometry optimizes generation of stem cell memory-like T cells. Nature Biotechnology, 2019, 37, 259-266.	18.1	41
43	Log-Ratio Lasso: Scalable, Sparse Estimation for Log-Ratio Models. Biometrics, 2019, 75, 613-624.	1.7	22
44	Some methods for heterogeneous treatment effect estimation in high dimensions. Statistics in Medicine, 2018, 37, 1767-1787.	1.7	95
45	Single-cell developmental classification of B cell precursor acute lymphoblastic leukemia at diagnosis reveals predictors of relapse. Nature Medicine, 2018, 24, 474-483.	25.6	95
46	Genomic feature selection by coverage design optimization. Journal of Applied Statistics, 2018, 45, 2658-2676.	1.6	1
47	A proteomic clock of human pregnancy. American Journal of Obstetrics and Gynecology, 2018, 218, 347.e1-347.e14.	2.5	81
48	Food allergy and omics. Journal of Allergy and Clinical Immunology, 2018, 141, 20-29.	2.8	60
49	A General Framework for Estimation and Inference From Clusters of Features. Journal of the American Statistical Association, 2018, 113, 280-293.	3.5	11
50	Circulating Tumor DNA Measurements As Early Outcome Predictors in Diffuse Large B-Cell Lymphoma. Journal of Clinical Oncology, 2018, 36, 2845-2853.	17.1	337
51	Multicenter Study Using Desorption-Electrospray-Ionization-Mass-Spectrometry Imaging for Breast-Cancer Diagnosis. Analytical Chemistry, 2018, 90, 11324-11332.	6.7	73
52	Landscape of monoallelic DNA accessibility in mouse embryonic stem cells and neural progenitor cells. Nature Genetics, 2017, 49, 377-386.	16.3	65
53	Long-term course of patients with primary ocular adnexal MALT lymphoma: a large single-institution cohort study. Blood, 2017, 129, 324-332.	1.0	62
54	Chemical Space Mimicry for Drug Discovery. Journal of Chemical Information and Modeling, 2017, 57, 875-882.	4.9	65

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55	Metabolic Markers and Statistical Prediction of Serous Ovarian Cancer Aggressiveness by Ambient Ionization Mass Spectrometry Imaging. Cancer Research, 2017, 77, 2903-2913.	0.6	98
56	An immune clock of human pregnancy. Science Immunology, 2017, 2, .	14.0	344
57	Postâ€selection point and interval estimation of signal sizes in Gaussian samples. Canadian Journal of Statistics, 2017, 45, 128-148.	0.8	12
58	Development of a Dynamic Model for Personalized Risk Assessment in Large B-Cell Lymphoma. Blood, 2017, 130, 826-826.	1.0	4
59	Sparse regression and marginal testing using cluster prototypes. Biostatistics, 2016, , kxv049.	2.1	14
60	Noninvasive Cancer Classification Using Diverse Genomic Features in Circulating Tumor DNA. , 2016, , 516-516.		0
61	Pathophysiological significance and therapeutic targeting of germinal center kinase in diffuse large B-cell lymphoma. Blood, 2016, 128, 239-248.	1.0	17
62	Data Shared Lasso: A novel tool to discover uplift. Computational Statistics and Data Analysis, 2016, 101, 226-235.	1.5	25
63	Customized training with an application to mass spectrometric imaging of cancer tissue. Annals of Applied Statistics, 2015, 9, .	1.2	9
64	Collaborative regression. Biostatistics, 2015, 16, 326-338.	2.1	48
65	Pancancer analysis of DNA methylation-driven genes using MethylMix. Genome Biology, 2015, 16, .	14.0	100
66	Quantitative SD-OCT Imaging Biomarkers as Indicators of Age-Related Macular Degeneration Progression. , 2014, 55, 7093.		115
67	Increasing value and reducing waste in research design, conduct, and analysis. Lancet, The, 2014, 383, 166-175.	35.3	1,169
68	A Simple Method for Estimating Interactions Between a Treatment and a Large Number of Covariates. Journal of the American Statistical Association, 2014, 109, 1517-1532.	3.5	227
69	A significance test for the lasso. Annals of Statistics, 2014, 42, .	2.7	376
70	A Sparse-Group Lasso. Journal of Computational and Graphical Statistics, 2013, 22, 231-245.	2.0	956
71	Sensitivity analysis for inference with partially identifiable covariance matrices. Computational Statistics, 2013, 29, 529-546.	1.2	1
72	Standardization and the Group Lasso Penalty. Statistica Sinica, 2012, 22, .	0.4	87

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73	Inference with Transposable Data: Modelling the Effects of Row and Column Correlations. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2012, 74, 721-743.	2.9	25
74	Hierarchical Clustering With Prototypes via Minimax Linkage. Journal of the American Statistical Association, 2011, 106, 1075-1084.	3.5	130
75	Nearly-Isotonic Regression. Technometrics, 2011, 53, 54-61.	3.0	66
76	Gene expression deconvolution in linear space. Nature Methods, 2011, 9, 9-9.	14.5	5
77	Reply to D.R. Catchpoole et al. Journal of Clinical Oncology, 2010, 28, e725-e725.	17.1	1
78	Transposable regularized covariance models with an application to missing data imputation. Annals of Applied Statistics, 2010, 4, .	1.2	80
79	Discussion. Journal of the American Statistical Association, 2009, 104, 698-699.	3.5	1
80	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.	1.0	1
81	Differentiation-Stage-Specific Expression of MicroRNAs in B-Lymphocytes and Diffuse Large B-Cell Lymphomas (DLBCL). Blood, 2008, 112, 805-805.	1.0	12
82	Neither CD68+ Nor CD163+ Macrophages Are Associated with Decreased Survival in Follicular Lymphoma. Blood, 2008, 112, 3747-3747.	1.0	0
83	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.	1.0	0
84	Survival in Follicular Lymphoma: The Stanford Experience, 1960â€“2003.. Blood, 2007, 110, 3428-3428.	1.0	6
85	LMO2 Protein Expression Predicts Survival in Patients with Diffuse Large B-Cell Lymphoma in the Pre- and Post-Rituximab Treatment Eras.. Blood, 2007, 110, 52-52.	1.0	2
86	Anti-Idiotype Antibody Response after Vaccination Correlates with Better Overall Survival in Follicular Lymphoma.. Blood, 2007, 110, 647-647.	1.0	0
87	Sparse Principal Component Analysis. Journal of Computational and Graphical Statistics, 2006, 15, 265-286.	2.0	2,108
88	Prediction by Supervised Principal Components. Journal of the American Statistical Association, 2006, 101, 119-137.	3.5	534
89	Comment. Journal of the American Statistical Association, 2005, 100, 807-808.	3.5	0
90	Cluster Validation by Prediction Strength. Journal of Computational and Graphical Statistics, 2005, 14, 511-528.	2.0	412

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91	Least angle regression. Annals of Statistics, 2004, 32, .	2.7	6,447
92	Diagnosis of multiple cancer types by shrunken centroids of gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6567-6572.	7.7	2,324
93	Empirical Bayes Analysis of a Microarray Experiment. Journal of the American Statistical Association, 2001, 96, 1151-1160.	3.5	1,275
94	Estimating the Number of Clusters in a Data Set Via the Gap Statistic. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2001, 63, 411-423.	2.9	4,015
95	Statistical Measures for the Computer-Aided Diagnosis of Mammographic Masses. Journal of Computational and Graphical Statistics, 1999, 8, 531-543.	2.0	2
96	Model Search by Bootstrap â€œBumpingâ€• Journal of Computational and Graphical Statistics, 1999, 8, 671-686.	2.0	28
97	A comparison of statistical learning methods on the GUSTO database. , 1998, 17, 2501-2508.		67
98	Who is the Fastest Man in the World?. American Statistician, 1997, 51, 106-111.	1.6	13
99	Impact of menstrual phase on false-negative mammograms in the canadian national breast screening study. Cancer, 1997, 80, 720-724.	4.4	56
100	THE LASSO METHOD FOR VARIABLE SELECTION IN THE COX MODEL. Statistics in Medicine, 1997, 16, 385-395.	1.7	2,922
101	Regression Shrinkage and Selection Via the Lasso. Journal of the Royal Statistical Society Series B: Statistical Methodology, 1996, 58, 267-288.	2.9	30,230
102	A Comparison of Some Error Estimates for Neural Network Models. Neural Computation, 1996, 8, 152-163.	2.2	200
103	Combining Estimates in Regression and Classification. Journal of the American Statistical Association, 1996, 91, 1641-1650.	3.5	166
104	Flexible Discriminant Analysis by Optimal Scoring. Journal of the American Statistical Association, 1994, 89, 1255-1270.	3.5	568
105	Adaptive Principal Surfaces. Journal of the American Statistical Association, 1994, 89, 53-64.	3.5	78
106	Flexible Discriminant Analysis by Optimal Scoring. Journal of the American Statistical Association, 1994, 89, 1255.	3.5	144
107	Adaptive Principal Surfaces. Journal of the American Statistical Association, 1994, 89, 53.	3.5	25
108	A Strategy for Binary Description and Classification. Journal of Computational and Graphical Statistics, 1992, 1, 3-20.	2.0	4

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109	Estimating Transformations for Regression via Additivity and Variance Stabilization. Journal of the American Statistical Association, 1988, 83, 394-405.	3.5	150
110	Estimating Transformations for Regression Via Additivity and Variance Stabilization. Journal of the American Statistical Association, 1988, 83, 394.	3.5	36
111	Comment. Journal of the American Statistical Association, 1987, 82, 187-188.	3.5	0
112	Bootstrap Confidence Intervals and Bootstrap Approximations. Journal of the American Statistical Association, 1987, 82, 163-170.	3.5	70
113	Local Likelihood Estimation. Journal of the American Statistical Association, 1987, 82, 559-567.	3.5	359
114	Generalized Additive Models: Some Applications. Journal of the American Statistical Association, 1987, 82, 371-386.	3.5	632
115	Bootstrap Confidence Intervals and Bootstrap Approximations. Journal of the American Statistical Association, 1987, 82, 163.	3.5	13
116	Generalized Additive Models: Some Applications. Journal of the American Statistical Association, 1987, 82, 371.	3.5	70
117	Local Likelihood Estimation. Journal of the American Statistical Association, 1987, 82, 559.	3.5	92
118	The Bootstrap Method for Assessing Statistical Accuracy. Behaviormetrika, 1985, 12, 1-35.	0.9	150