

T Tony Cai

List of Publications by Year in descending order

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61
papers

4,102
citations

304743

22
h-index

128289

60
g-index

64
all docs

64
docs citations

64
times ranked

3086
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical Inference for High-Dimensional Generalized Linear Models With Binary Outcomes. <i>Journal of the American Statistical Association</i> , 2023, 118, 1319-1332.	3.1	9
2	Transfer Learning in Large-Scale Gaussian Graphical Models with False Discovery Rate Control. <i>Journal of the American Statistical Association</i> , 2023, 118, 2171-2183.	3.1	6
3	Two robust tools for inference about causal effects with invalid instruments. <i>Biometrics</i> , 2022, 78, 24-34.	1.4	6
4	LAWS: A Locally Adaptive Weighting and Screening Approach to Spatial Multiple Testing. <i>Journal of the American Statistical Association</i> , 2022, 117, 1370-1383.	3.1	8
5	Inference for High-Dimensional Linear Mixed-Effects Models: A Quasi-Likelihood Approach. <i>Journal of the American Statistical Association</i> , 2022, 117, 1835-1846.	3.1	7
6	Transfer Learning for High-Dimensional Linear Regression: Prediction, Estimation and Minimax Optimality. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2022, 84, 149-173.	2.2	29
7	Distributed nonparametric function estimation: Optimal rate of convergence and cost of adaptation. <i>Annals of Statistics</i> , 2022, 50, .	2.6	3
8	Sparse Group Lasso: Optimal Sample Complexity, Convergence Rate, and Statistical Inference. <i>IEEE Transactions on Information Theory</i> , 2022, 68, 5975-6002.	2.4	6
9	Optimal Estimation of Wasserstein Distance on a Tree With an Application to Microbiome Studies. <i>Journal of the American Statistical Association</i> , 2021, 116, 1237-1253.	3.1	2
10	Hypothesis testing for phylogenetic composition: a minimum-cost flow perspective. <i>Biometrika</i> , 2021, 108, 17-36.	2.4	6
11	Optimal estimation of bacterial growth rates based on a permuted monotone matrix. <i>Biometrika</i> , 2021, 108, 693-708.	2.4	4
12	Optimal sparse eigenspace and low-rank density matrix estimation for quantum systems. <i>Journal of Statistical Planning and Inference</i> , 2021, 213, 50-71.	0.6	2
13	Transfer learning for nonparametric classification: Minimax rate and adaptive classifier. <i>Annals of Statistics</i> , 2021, 49, .	2.6	24
14	A convex optimization approach to high-dimensional sparse quadratic discriminant analysis. <i>Annals of Statistics</i> , 2021, 49, .	2.6	2
15	Optimal Statistical Inference for Individualized Treatment Effects in High-Dimensional Models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2021, 83, 669-719.	2.2	7
16	The cost of privacy: Optimal rates of convergence for parameter estimation with differential privacy. <i>Annals of Statistics</i> , 2021, 49, .	2.6	14
17	Group inference in high dimensions with applications to hierarchical testing. <i>Electronic Journal of Statistics</i> , 2021, 15, .	0.7	5
18	Asymptotic analysis for extreme eigenvalues of principal minors of random matrices. <i>Annals of Applied Probability</i> , 2021, 31, .	1.3	3

#	ARTICLE	IF	CITATIONS
19	GAP: A General Framework for Information Pooling in Two-Sample Sparse Inference. <i>Journal of the American Statistical Association</i> , 2020, 115, 1236-1250.	3.1	6
20	Semisupervised Inference for Explained Variance in High Dimensional Linear Regression and its Applications. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2020, 82, 391-419.	2.2	22
21	Optimal Estimation of Genetic Relatedness in High-Dimensional Linear Models. <i>Journal of the American Statistical Association</i> , 2019, 114, 358-369.	3.1	21
22	Large-Scale Simultaneous Testing of Cross-Covariance Matrices with Applications to PheWAS. <i>Statistica Sinica</i> , 2019, 29, 983-1005.	0.3	3
23	Joint testing and false discovery rate control in high-dimensional multivariate regression. <i>Biometrika</i> , 2018, 105, 249-269.	2.4	10
24	Multiple Testing of Submatrices of a Precision Matrix With Applications to Identification of Between Pathway Interactions. <i>Journal of the American Statistical Association</i> , 2018, 113, 328-339.	3.1	13
25	Weighted False Discovery Rate Control in Large-Scale Multiple Testing. <i>Journal of the American Statistical Association</i> , 2018, 113, 1172-1183.	3.1	30
26	Two-sample tests for high-dimension, strongly spiked eigenvalue models. <i>Statistica Sinica</i> , 2018, 28, 63-92.	0.3	12
27	Accuracy assessment for high-dimensional linear regression. <i>Annals of Statistics</i> , 2018, 46, .	2.6	17
28	Sparse Simultaneous Signal Detection for Identifying Genetically Controlled Disease Genes. <i>Journal of the American Statistical Association</i> , 2017, 112, 1032-1046.	3.1	9
29	On Detection and Structural Reconstruction of Small-World Random Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2017, 4, 165-176.	6.4	9
30	Confidence intervals for high-dimensional linear regression: Minimax rates and adaptivity. <i>Annals of Statistics</i> , 2017, 45, .	2.6	70
31	Optimal detection of weak positive latent dependence between two sequences of multiple tests. <i>Journal of Multivariate Analysis</i> , 2017, 160, 169-184.	1.0	5
32	Global Testing and Large-Scale Multiple Testing for High-Dimensional Covariance Structures. <i>Annual Review of Statistics and Its Application</i> , 2017, 4, 423-446.	7.0	24
33	Minimax rate-optimal estimation of high-dimensional covariance matrices with incomplete data. <i>Journal of Multivariate Analysis</i> , 2016, 150, 55-74.	1.0	23
34	Large-Scale Multiple Testing of Correlations. <i>Journal of the American Statistical Association</i> , 2016, 111, 229-240.	3.1	38
35	Inference for high-dimensional differential correlation matrices. <i>Journal of Multivariate Analysis</i> , 2016, 143, 107-126.	1.0	18
36	Structured Matrix Completion with Applications to Genomic Data Integration. <i>Journal of the American Statistical Association</i> , 2016, 111, 621-633.	3.1	42

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37	Correction to the paper "Optimal False Discovery Rate Control for Dependent Data", Statistics and Its Interface, 2016, 9, 33-35.	0.3	2
38	Joint estimation of multiple high-dimensional precision matrices. Statistica Sinica, 2016, 26, 445-464.	0.3	34
39	Testing differential networks with applications to the detection of gene-gene interactions. Biometrika, 2015, 102, 247-266.	2.4	74
40	SPARSE SEGMENT IDENTIFICATIONS WITH APPLICATIONS TO DNA COPY NUMBER VARIATION ANALYSIS. , 2015, , 863-887.		0
41	Optimal estimation and rank detection for sparse spiked covariance matrices. Probability Theory and Related Fields, 2015, 161, 781-815.	1.8	76
42	Direct estimation of differential networks. Biometrika, 2014, 101, 253-268.	2.4	88
43	Covariate-adjusted precision matrix estimation with an application in genetical genomics. Biometrika, 2013, 100, 139-156.	2.4	74
44	Optimal rates of convergence for estimating Toeplitz covariance matrices. Probability Theory and Related Fields, 2013, 156, 101-143.	1.8	64
45	Two-Sample Covariance Matrix Testing and Support Recovery in High-Dimensional and Sparse Settings. Journal of the American Statistical Association, 2013, 108, 265-277.	3.1	144
46	Recent results on sparse principle component analysis. , 2013, , .		1
47	Minimax and Adaptive Prediction for Functional Linear Regression. Journal of the American Statistical Association, 2012, 107, 1201-1216.	3.1	95
48	Robust Detection and Identification of Sparse Segments in Ultrahigh Dimensional Data Analysis. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2012, 74, 773-797.	2.2	21
49	A Direct Estimation Approach to Sparse Linear Discriminant Analysis. Journal of the American Statistical Association, 2011, 106, 1566-1577.	3.1	178
50	Adaptive Thresholding for Sparse Covariance Matrix Estimation. Journal of the American Statistical Association, 2011, 106, 672-684.	3.1	365
51	Orthogonal Matching Pursuit for Sparse Signal Recovery With Noise. IEEE Transactions on Information Theory, 2011, 57, 4680-4688.	2.4	1,022
52	A Constrained ℓ_1 Minimization Approach to Sparse Precision Matrix Estimation. Journal of the American Statistical Association, 2011, 106, 594-607.	3.1	594
53	The root-unroot algorithm for density estimation as implemented via wavelet block thresholding. Probability Theory and Related Fields, 2010, 146, 401.	1.8	48
54	Shifting Inequality and Recovery of Sparse Signals. IEEE Transactions on Signal Processing, 2010, 58, 1300-1308.	5.3	126

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55	Sharp adaptive estimation by a blockwise method. Journal of Nonparametric Statistics, 2009, 21, 839-850.	0.9	6
56	Simultaneous Testing of Grouped Hypotheses: Finding Needles in Multiple Haystacks. Journal of the American Statistical Association, 2009, 104, 1467-1481.	3.1	77
57	On Recovery of Sparse Signals Via $\ell_{1/2}$ Minimization. IEEE Transactions on Information Theory, 2009, 55, 3388-3397.	2.4	140
58	Oracle and Adaptive Compound Decision Rules for False Discovery Rate Control. Journal of the American Statistical Association, 2007, 102, 901-912.	3.1	194
59	Estimating the Null and the Proportion of Nonnull Effects in Large-Scale Multiple Comparisons. Journal of the American Statistical Association, 2007, 102, 495-506.	3.1	123
60	Adaptive estimation of linear functionals under different performance measures. Bernoulli, 2005, 11, .	1.3	10
61	Minimax estimation of linear functionals over nonconvex parameter spaces. Annals of Statistics, 2004, 32, 552.	2.6	27