

Peter Bhlmann

List of Publications by Year in Descending Order

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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.

155
papers

15,993
citations

48
h-index

126
g-index

168
ext. papers

19,471
ext. citations

3.3
avg, IF

7.26
L-index

#	Paper	IF	Citations
155	Distributional anchor regression.. <i>Statistics and Computing</i> , 2022 , 32, 39	1.8	0
154	Multiomic profiling of the liver across diets and age in a diverse mouse population. <i>Cell Systems</i> , 2021 ,	10.6	2
153	Change-Point Detection for Graphical Models in the Presence of Missing Values. <i>Journal of Computational and Graphical Statistics</i> , 2021 , 1-12	1.4	2
152	Stabilizing variable selection and regression. <i>Annals of Applied Statistics</i> , 2021 , 15,	2.1	1
151	Anchor regression: Heterogeneous data meet causality. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2021 , 83, 215-246	3.9	10
150	Seeded intervals and noise level estimation in change point detection: a discussion of Fryzlewicz (2020). <i>Journal of the Korean Statistical Society</i> , 2020 , 49, 1081-1089	0.5	0
149	Goodness-of-fit testing in high dimensional generalized linear models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2020 , 82, 773-795	3.9	8
148	Rejoinder on: Hierarchical inference for genome-wide association studies: a view on methodology with software. <i>Computational Statistics</i> , 2020 , 35, 59-67	1	
147	Hierarchical inference for genome-wide association studies: a view on methodology with software. <i>Computational Statistics</i> , 2020 , 35, 1-40	1	5
146	Invariance, Causality and Robustness. <i>Statistical Science</i> , 2020 , 35,	2.4	10
145	Rejoinder: Invariance, Causality and Robustness. <i>Statistical Science</i> , 2020 , 35,	2.4	1
144	A Look at Robustness and Stability of ℓ_1 -versus ℓ_0 -Regularization: Discussion of Papers by Bertsimas et al. and Hastie et al.. <i>Statistical Science</i> , 2020 , 35,	2.4	4
143	Toward causality and improving external validity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 25963-25965	11.5	0
142	Deconfounding and Causal Regularisation for Stability and External Validity. <i>International Statistical Review</i> , 2020 , 88, S114	1.4	2
141	SPHN/PHRT: Forming a Swiss-Wide Infrastructure for Data-Driven Sepsis Research. <i>Studies in Health Technology and Informatics</i> , 2020 , 270, 1163-1167	0.5	0
140	Comments on: Data science, big data and statistics. <i>Test</i> , 2019 , 28, 330-333	1.1	1
139	Invariant Causal Prediction for Sequential Data. <i>Journal of the American Statistical Association</i> , 2019 , 114, 1264-1276	2.8	20

138	Causal Dantzig: Fast inference in linear structural equation models with hidden variables under additive interventions. <i>Annals of Statistics</i> , 2019 , 47,	3.2	7
137	Statistics for big data: A perspective. <i>Statistics and Probability Letters</i> , 2018 , 136, 37-41	0.6	17
136	Goodness-of-fit tests for high dimensional linear models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2018 , 80, 113-135	3.9	21
135	Kernel-based tests for joint independence. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2018 , 80, 5-31	3.9	50
134	Most Likely Transformations. <i>Scandinavian Journal of Statistics</i> , 2018 , 45, 110-134	0.8	37
133	Causal inference in partially linear structural equation models. <i>Annals of Statistics</i> , 2018 , 46,	3.2	3
132	Nonparametric causal inference from observational time series through marginal integration. <i>Econometrics and Statistics</i> , 2017 , 2, 81-105	0.8	4
131	High-dimensional simultaneous inference with the bootstrap. <i>Test</i> , 2017 , 26, 685-719	1.1	37
130	Rejoinder on: High-dimensional simultaneous inference with the bootstrap. <i>Test</i> , 2017 , 26, 751-758	1.1	1
129	High-dimensional statistics, with applications to genome-wide association studies. <i>EMS Surveys in Mathematical Sciences</i> , 2017 , 4, 45-75	1.4	2
128	A multi-marker association method for genome-wide association studies without the need for population structure correction. <i>Nature Communications</i> , 2016 , 7, 13299	17.4	28
127	Comments on: A random forest guided tour. <i>Test</i> , 2016 , 25, 239-246	1.1	
126	A Sequential Rejection Testing Method for High-Dimensional Regression with Correlated Variables. <i>International Journal of Biostatistics</i> , 2016 , 12, 79-95	1.3	4
125	Assessing statistical significance in multivariable genome wide association analysis. <i>Bioinformatics</i> , 2016 , 32, 1990-2000	7.2	22
124	Hierarchical Testing in the High-Dimensional Setting With Correlated Variables. <i>Journal of the American Statistical Association</i> , 2016 , 111, 331-343	2.8	12
123	Arabidopsis GERANYLGERANYL DIPHOSPHATE SYNTHASE 11 is a hub isozyme required for the production of most photosynthesis-related isoprenoids. <i>New Phytologist</i> , 2016 , 209, 252-64	9.8	73
122	Some Themes in High-Dimensional Statistics. <i>Abel Symposia</i> , 2016 , 1-13	0.9	1
121	Magging: Maximin Aggregation for Inhomogeneous Large-Scale Data. <i>Proceedings of the IEEE</i> , 2016 , 104, 126-135	14.3	17

120	Partial Least Squares for Heterogeneous Data. <i>Springer Proceedings in Mathematics and Statistics</i> , 2016 , 3-15	0.2	0
119	Methods for causal inference from gene perturbation experiments and validation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7361-8	11.5	48
118	Score-based causal learning in additive noise models. <i>Statistics</i> , 2016 , 50, 471-485	0.5	9
117	Causal inference by using invariant prediction: identification and confidence intervals. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2016 , 78, 947-1012	3.9	125
116	Structural intervention distance for evaluating causal graphs. <i>Neural Computation</i> , 2015 , 27, 771-99	2.9	12
115	High-Dimensional Inference: Confidence Intervals, p -Values and R-Software hdi. <i>Statistical Science</i> , 2015 , 30,	2.4	84
114	Maximin effects in inhomogeneous large-scale data. <i>Annals of Statistics</i> , 2015 , 43,	3.2	20
113	High-dimensional inference in misspecified linear models. <i>Electronic Journal of Statistics</i> , 2015 , 9,	1.2	20
112	Jointly interventional and observational data: estimation of interventional Markov equivalence classes of directed acyclic graphs. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2015 , 77, 291-318	3.9	26
111	Marginal integration for nonparametric causal inference. <i>Electronic Journal of Statistics</i> , 2015 , 9,	1.2	4
110	Confidence Intervals and Tests for High-Dimensional Models: A Compact Review. <i>Lecture Notes in Statistics</i> , 2015 , 21-34	2.9	
109	Statistical approach to protein quantification. <i>Molecular and Cellular Proteomics</i> , 2014 , 13, 666-77	7.6	23
108	Hypersurfaces and Their Singularities in Partial Correlation Testing. <i>Foundations of Computational Mathematics</i> , 2014 , 14, 1079-1116	2.7	3
107	Discussion: A significance test for the lasso. <i>Annals of Statistics</i> , 2014 , 42,	3.2	6
106	Two optimal strategies for active learning of causal models from interventional data. <i>International Journal of Approximate Reasoning</i> , 2014 , 55, 926-939	3.6	12
105	GLMM-Lasso: An Algorithm for High-Dimensional Generalized Linear Mixed Models Using ℓ_1 -Penalization. <i>Journal of Computational and Graphical Statistics</i> , 2014 , 23, 460-477	1.4	48
104	CAM: Causal additive models, high-dimensional order search and penalized regression. <i>Annals of Statistics</i> , 2014 , 42,	3.2	62
103	Discussion of Big Bayes Stories and BayesBag. <i>Statistical Science</i> , 2014 , 29,	2.4	1

102	Causal Structure Learning and Inference: A Selective Review. <i>Quality Technology and Quantitative Management</i> , 2014 , 11, 3-21	1.9	11
101	Discussion of "the evolution of boosting algorithms" and "extending statistical boosting". <i>Methods of Information in Medicine</i> , 2014 , 53, 436-45	1.5	15
100	High-Dimensional Statistics with a View Toward Applications in Biology. <i>Annual Review of Statistics and Its Application</i> , 2014 , 1, 255-278	7.6	115
99	On asymptotically optimal confidence regions and tests for high-dimensional models. <i>Annals of Statistics</i> , 2014 , 42,	3.2	385
98	Conditional transformation models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2014 , 76, 3-27	3.9	42
97	Identifiability of Gaussian structural equation models with equal error variances. <i>Biometrika</i> , 2014 , 101, 219-228	2	62
96	Simultaneous analysis of large-scale RNAi screens for pathogen entry. <i>BMC Genomics</i> , 2014 , 15, 1162	4.5	28
95	High-dimensional variable screening and bias in subsequent inference, with an empirical comparison. <i>Computational Statistics</i> , 2014 , 29, 407-430	1	35
94	Robust Statistics 2014 , 51-98		1
93	Causal statistical inference in high dimensions. <i>Mathematical Methods of Operations Research</i> , 2013 , 77, 357-370	1	13
92	Stable graphical model estimation with Random Forests for discrete, continuous, and mixed variables. <i>Computational Statistics and Data Analysis</i> , 2013 , 64, 132-152	1.6	37
91	Correlated variables in regression: Clustering and sparse estimation. <i>Journal of Statistical Planning and Inference</i> , 2013 , 143, 1835-1858	0.8	86
90	Controlling false positive selections in high-dimensional regression and causal inference. <i>Statistical Methods in Medical Research</i> , 2013 , 22, 466-92	2.3	8
89	ℓ_0 -penalized maximum likelihood for sparse directed acyclic graphs. <i>Annals of Statistics</i> , 2013 , 41,	3.2	43
88	Statistical significance in high-dimensional linear models. <i>Bernoulli</i> , 2013 , 19,	1.6	106
87	Geometry of the faithfulness assumption in causal inference. <i>Annals of Statistics</i> , 2013 , 41,	3.2	48
86	Missing values: sparse inverse covariance estimation and an extension to sparse regression. <i>Statistics and Computing</i> , 2012 , 22, 219-235	1.8	27
85	MissForest--non-parametric missing value imputation for mixed-type data. <i>Bioinformatics</i> , 2012 , 28, 112-8.2	8.2	1585

84	Systems-based analysis of Arabidopsis leaf growth reveals adaptation to water deficit. <i>Molecular Systems Biology</i> , 2012 , 8, 606	12.2	163
83	Bagging, Boosting and Ensemble Methods 2012 , 985-1022		83
82	Integrative genome-wide expression profiling identifies three distinct molecular subgroups of renal cell carcinoma with different patient outcome. <i>BMC Cancer</i> , 2012 , 12, 310	4.8	23
81	Causal stability ranking. <i>Bioinformatics</i> , 2012 , 28, 2819-23	7.2	38
80	Causal Inference Using Graphical Models with the R Package <i>pcalg</i> . <i>Journal of Statistical Software</i> , 2012 , 47,	7.3	185
79	Selection of Carbonic Anhydrase IX Inhibitors from One Million DNA-Encoded Compounds. <i>ACS Chemical Biology</i> , 2011 , 6, 336-44	4.9	117
78	Statistics for High-Dimensional Data. <i>Springer Series in Statistics</i> , 2011 ,	0.3	853
77	The adaptive and the thresholded Lasso for potentially misspecified models (and a lower bound for the Lasso). <i>Electronic Journal of Statistics</i> , 2011 , 5,	1.2	52
76	Asymptotic optimality of the Westfall-Young permutation procedure for multiple testing under dependence. <i>Annals of Statistics</i> , 2011 , 39,	3.2	32
75	Estimation for High-Dimensional Linear Mixed-Effects Models Using ℓ_1 -Penalization. <i>Scandinavian Journal of Statistics</i> , 2011 , 38, 197-214	0.8	97
74	Predicting causal effects in large-scale systems from observational data. <i>Nature Methods</i> , 2010 , 7, 247-8	21.6	136
73	Stability selection. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2010 , 72, 417-53	4.73	1221
72	Protein and gene model inference based on statistical modeling in k-partite graphs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12101-6	11.5	33
71	Mining tissue microarray data to uncover combinations of biomarker expression patterns that improve intermediate staging and grading of clear cell renal cell cancer. <i>Clinical Cancer Research</i> , 2010 , 16, 88-98	12.9	70
70	Variable selection in high-dimensional linear models: partially faithful distributions and the PC-simple algorithm. <i>Biometrika</i> , 2010 , 97, 261-278	2	49
69	Remembrance of Leo Breiman. <i>Annals of Applied Statistics</i> , 2010 , 4,	2.1	2
68	ℓ_1 -penalization for mixture regression models. <i>Test</i> , 2010 , 19, 209-256	1.1	143
67	Rejoinder: ℓ_1 -penalization for mixture regression models. <i>Test</i> , 2010 , 19, 280-285	1.1	5

66	Twin Boosting: improved feature selection and prediction. <i>Statistics and Computing</i> , 2010 , 20, 119-138	1.8	40
65	Understanding human functioning using graphical models. <i>BMC Medical Research Methodology</i> , 2010 , 10, 14	4.7	31
64	Decomposition and model selection for large contingency tables. <i>Biometrical Journal</i> , 2010 , 52, 233-52	1.5	9
63	Boosting. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2010 , 2, 69-74	1.4	8
62	Splines for financial volatility. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2009 , 71, 655-670	3.9	14
61	Discovery of TNF inhibitors from a DNA-encoded chemical library based on diels-alder cycloaddition. <i>Chemistry and Biology</i> , 2009 , 16, 1075-86		89
60	p-Values for High-Dimensional Regression. <i>Journal of the American Statistical Association</i> , 2009 , 104, 1671-1681	2.8	205
59	Estimating high-dimensional intervention effects from observational data. <i>Annals of Statistics</i> , 2009 , 37,	3.2	142
58	On the conditions used to prove oracle results for the Lasso. <i>Electronic Journal of Statistics</i> , 2009 , 3,	1.2	290
57	High-dimensional additive modeling. <i>Annals of Statistics</i> , 2009 , 37,	3.2	219
56	High dimensional sparse covariance estimation via directed acyclic graphs. <i>Electronic Journal of Statistics</i> , 2009 , 3,	1.2	14
55	The group lasso for logistic regression. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2008 , 70, 53-71	3.9	813
54	Annotating novel genes by integrating synthetic lethals and genomic information. <i>BMC Systems Biology</i> , 2008 , 2, 3	3.5	6
53	Targeted quantitative analysis of Streptococcus pyogenes virulence factors by multiple reaction monitoring. <i>Molecular and Cellular Proteomics</i> , 2008 , 7, 1489-500	7.6	179
52	Discussion: One-step sparse estimates in nonconcave penalized likelihood models. <i>Annals of Statistics</i> , 2008 , 36,	3.2	30
51	Robustification of the PC-Algorithm for Directed Acyclic Graphs. <i>Journal of Computational and Graphical Statistics</i> , 2008 , 17, 773-789	1.4	27
50	Robustified L2 boosting. <i>Computational Statistics and Data Analysis</i> , 2008 , 52, 3331-3341	1.6	23
49	Discussion of: Treelets: An adaptive multi-scale basis for sparse unordered data. <i>Annals of Applied Statistics</i> , 2008 , 2,	2.1	2

48	Smoothing ℓ_1 -penalized estimators for high-dimensional time-course data. <i>Electronic Journal of Statistics</i> , 2007 , 1,	1.2	14
47	EVE (external variance estimation) increases statistical power for detecting differentially expressed genes. <i>Plant Journal</i> , 2007 , 52, 561-9	6.9	5
46	Penalized likelihood for sparse contingency tables with an application to full-length cDNA libraries. <i>BMC Bioinformatics</i> , 2007 , 8, 476	3.6	16
45	Statistical Analysis of Quantum Chemical Data Using Generalized XML/CML Archives for the Derivation of Molecular Design Rules. <i>Chimia</i> , 2007 , 61, 165-168	1.3	4
44	Analyzing gene expression data in terms of gene sets: methodological issues. <i>Bioinformatics</i> , 2007 , 23, 980-7	7.2	573
43	Boosting Algorithms: Regularization, Prediction and Model Fitting. <i>Statistical Science</i> , 2007 , 22, 477	2.4	484
42	Network analysis of systems elements. <i>Exs</i> , 2007 , 97, 331-51		4
41	Conjugate Direction Boosting. <i>Journal of Computational and Graphical Statistics</i> , 2006 , 15, 287-311	1.4	5
40	Model-based boosting in high dimensions. <i>Bioinformatics</i> , 2006 , 22, 2828-9	7.2	38
39	A systematic comparison and evaluation of biclustering methods for gene expression data. <i>Bioinformatics</i> , 2006 , 22, 1122-9	7.2	626
38	Low-order conditional independence graphs for inferring genetic networks. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2006 , 5, Article1	1.2	63
37	Survival ensembles. <i>Biostatistics</i> , 2006 , 7, 355-73	3.7	403
36	Boosting for high-dimensional linear models. <i>Annals of Statistics</i> , 2006 , 34, 559	3.2	216
35	High-dimensional graphs and variable selection with the Lasso. <i>Annals of Statistics</i> , 2006 , 34, 1436	3.2	1622
34	Boosting and ℓ_1 -Penalty Methods for High-dimensional Data with Some Applications in Genomics 2006 , 1-12		
33	Boosting Algorithms: with an Application to Bootstrapping Multivariate Time Series 2006 , 209-230		1
32	Lower bounds for the number of false null hypotheses for multiple testing of associations under general dependence structures. <i>Biometrika</i> , 2005 , 92, 893-907	2	26
31	Variable Length Markov Chains: Methodology, Computing, and Software. <i>Journal of Computational and Graphical Statistics</i> , 2004 , 13, 435-455	1.4	34

30	Gene expression signatures identify rhabdomyosarcoma subtypes and detect a novel t(2;2)(q35;p23) translocation fusing PAX3 to NCOA1. <i>Cancer Research</i> , 2004 , 64, 5539-45	10.1	196
29	Finding predictive gene groups from microarray data. <i>Journal of Multivariate Analysis</i> , 2004 , 90, 106-131	1.4	80
28	Sparse graphical Gaussian modeling of the isoprenoid gene network in Arabidopsis thaliana. <i>Genome Biology</i> , 2004 , 5, R92	18.3	229
27	Bagging, Subbagging and Bragging for Improving some Prediction Algorithms 2003 , 19-34		25
26	Boosting With the L2 Loss. <i>Journal of the American Statistical Association</i> , 2003 , 98, 324-339	2.8	485
25	Boosting for tumor classification with gene expression data. <i>Bioinformatics</i> , 2003 , 19, 1061-9	7.2	282
24	Volatility estimation with functional gradient descent for very high-dimensional financial time series. <i>Journal of Computational Finance</i> , 2003 , 6, 65-89	1.7	25
23	An algorithm for nonparametric GARCH modelling. <i>Computational Statistics and Data Analysis</i> , 2002 , 40, 665-683	1.6	44
22	Weak dependence beyond mixing and asymptotics for nonparametric regression. <i>Annals of Statistics</i> , 2002 , 30, 397	3.2	38
21	Sieve Bootstrap With Variable-Length Markov Chains for Stationary Categorical Time Series. <i>Journal of the American Statistical Association</i> , 2002 , 97, 443-471	2.8	12
20	Bootstraps for Time Series. <i>Statistical Science</i> , 2002 , 17, 52	2.4	161
19	Analyzing bagging. <i>Annals of Statistics</i> , 2002 , 30, 927	3.2	383
18	Tree-structured generalized autoregressive conditional heteroscedastic models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2001 , 63, 727-744	3.9	29
17	Model Selection for Variable Length Markov Chains and Tuning the Context Algorithm. <i>Annals of the Institute of Statistical Mathematics</i> , 2000 , 52, 287-315	1	22
16	Dynamic adaptive partitioning for nonlinear time series. <i>Biometrika</i> , 1999 , 86, 555-571	2	25
15	Efficient and adaptive post-model-selection estimators. <i>Journal of Statistical Planning and Inference</i> , 1999 , 79, 1-9	0.8	8
14	Block length selection in the bootstrap for time series. <i>Computational Statistics and Data Analysis</i> , 1999 , 31, 295-310	1.6	77
13	Variable length Markov chains. <i>Annals of Statistics</i> , 1999 , 27, 480	3.2	196

12	Prediction of Spatial Cumulative Distribution Functions Using Subsampling: Comment. <i>Journal of the American Statistical Association</i> , 1999 , 94, 97	2.8	2
11	A New Mixing Notion and Functional Central Limit Theorems for a Sieve Bootstrap in Time Series. <i>Bernoulli</i> , 1999 , 5, 413	1.6	47
10	Extreme events from the return-volume process: a discretization approach for complexity reduction. <i>Applied Financial Economics</i> , 1998 , 8, 267-278		11
9	Sieve bootstrap for smoothing in nonstationary time series. <i>Annals of Statistics</i> , 1998 , 26, 48	3.2	46
8	Sieve Bootstrap for Time Series. <i>Bernoulli</i> , 1997 , 3, 123	1.6	255
7	Closure of Linear Processes. <i>Journal of Theoretical Probability</i> , 1997 , 10, 445-479	0.5	18
6	What is a linear process?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 12128-31	11.5	21
5	LOCALLY ADAPTIVE LAG-WINDOW SPECTRAL ESTIMATION. <i>Journal of Time Series Analysis</i> , 1996 , 17, 247-270	0.8	37
4	Moving-average representation of autoregressive approximations. <i>Stochastic Processes and Their Applications</i> , 1995 , 60, 331-342	1.1	26
3	The blockwise bootstrap for general empirical processes of stationary sequences. <i>Stochastic Processes and Their Applications</i> , 1995 , 58, 247-265	1.1	19
2	Blockwise Bootstrapped Empirical Process for Stationary Sequences. <i>Annals of Statistics</i> , 1994 , 22, 995	3.2	59
1	Multi-Omic Profiling of the Liver Across Diets and Age in a Diverse Mouse Population		3