Song Xi Chen

List of Publications by Year
in descending order

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96	4,281	136950	123424
papers	citations	32 h-index	61 g-index

99	99	99	2254
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A two-sample test for high-dimensional data with applications to gene-set testing. Annals of Statistics, 2010, 38, .	2.6	381
2	Probability Density Function Estimation Using Gamma Kernels. Annals of the Institute of Statistical Mathematics, 2000, 52, 471-480.	0.8	261
3	Beta kernel estimators for density functions. Computational Statistics and Data Analysis, 1999, 31, 131-145.	1.2	250
4	Tests for High-Dimensional Covariance Matrices. Journal of the American Statistical Association, 2010, 105, 810-819.	3.1	227
5	Assessing Beijing's PM _{2.5} pollution: severity, weather impact, APEC and winter heating. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150257.	2.1	182
6	Smoothed Empirical Likelihood Confidence Intervals for Quantiles. Annals of Statistics, 1993, 21, 1166.	2.6	166
7	Two sample tests for high-dimensional covariance matrices. Annals of Statistics, 2012, 40, .	2.6	136
8	A review on empirical likelihood methods for regression. Test, 2009, 18, 415-447.	1.1	119
9	Parameter estimation and bias correction for diffusion processes. Journal of Econometrics, 2009, 149, 65-81.	6.5	118
10	Nonparametric estimation of copula functions for dependence modelling. Canadian Journal of Statistics, 2007, 35, 265-282.	0.9	117
11	Cautionary tales on air-quality improvement in Beijing. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170457.	2.1	107
12	Nonparametric Inference of Value-at-Risk for Dependent Financial Returns. Journal of Financial Econometrics, 2005, 3, 227-255.	1.5	105
13	PM_{2.5}data reliability, consistency, and air quality assessment in five Chinese cities. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,220-10,236.	3.3	102
14	Empirical Likelihood Confidence Intervals for Linear Regression Coefficients. Journal of Multivariate Analysis, 1994, 49, 24-40.	1.0	95
15	Empirical likelihood for estimating equations with missing values. Annals of Statistics, 2009, 37, .	2.6	91
16	Tests for High-Dimensional Regression Coefficients With Factorial Designs. Journal of the American Statistical Association, 2011, 106, 260-274.	3.1	91
17	On the accuracy of empirical likelihood confidence regions for linear regression model. Annals of the Institute of Statistical Mathematics, 1993, 45, 621-637.	0.8	85
18	Empirical likelihood confidence intervals for nonparametric density estimation. Biometrika, 1996, 83, 329-341.	2.4	78

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19	An empirical likelihood goodness-of-fit test for time series. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2003, 65, 663-678.	2.2	76
20	Effects of data dimension on empirical likelihood. Biometrika, 2009, 96, 711-722.	2.4	74
21	On Bartlett correction of empirical likelihood in the presence of nuisance parameters. Biometrika, 2006, 93, 215-220.	2.4	70
22	Empirical likelihood confidence intervals for local linear smoothers. Biometrika, 2000, 87, 946-953.	2.4	67
23	On the second-order properties of empirical likelihood with moment restrictions. Journal of Econometrics, 2007, 141, 492-516.	6.5	67
24	A test for model specification of diffusion processes. Annals of Statistics, 2008, 36, .	2.6	66
25	An adaptive empirical likelihood test for parametric time series regression models. Journal of Econometrics, 2007, 141, 950-972.	6.5	64
26	Empirical likelihood confidence region for parameter in the errors-in-variables models. Journal of Multivariate Analysis, 2003, 84, 101-115.	1.0	60
27	Beta-Bernstein Smoothing for Regression Curves with Compact Support. Scandinavian Journal of Statistics, 1999, 26, 47-59.	1.4	53
28	Test for bandedness of high-dimensional covariance matrices and bandwidth estimation. Annals of Statistics, 2012, 40, .	2.6	46
29	High dimensional generalized empirical likelihood for moment restrictions with dependent data. Journal of Econometrics, 2015, 185, 283-304.	6.5	44
30	Assessing air-quality in Beijing-Tianjin-Hebei region: The method and mixed tales of PM2.5 and O3. Atmospheric Environment, 2018, 193, 290-301.	4.1	43
31	A Kernel Estimate for the Density of a Biological Population by Using Line Transect Sampling. Journal of the Royal Statistical Society Series C: Applied Statistics, 1996, 45, 135.	1.0	42
32	Tests alternative to higher criticism for high-dimensional means under sparsity and column-wise dependence. Annals of Statistics, 2013, 41, .	2.6	36
33	On the approximate maximum likelihood estimation for diffusion processes. Annals of Statistics, 2011, 39, .	2.6	35
34	Measurement Errors in Line Transect Surveys. Biometrics, 1998, 54, 899.	1.4	33
35	Two-sample and ANOVA tests for high dimensional means. Annals of Statistics, 2019, 47, .	2.6	30
36	Measurement Errors in Line Transect Surveys Where Detectability Varies with Distance and Size. Biometrics, 2001, 57, 732-742.	1.4	28

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37	Improving Semiparametric Estimation by Using Surrogate Data. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2008, 70, 803-823.	2.2	28
38	Information Recovery in a Study With Surrogate Endpoints. Journal of the American Statistical Association, 2003, 98, 1052-1062.	3.1	27
39	Tests for High Dimensional Generalized Linear Models. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2016, 78, 1079-1102.	2.2	27
40	Studying School Size Effects in Line Transect Sampling Using the Kernel Method. Biometrics, 1996, 52, 1283.	1.4	24
41	EMPIRICAL LIKELIHOODâ€BASED KERNEL DENSITY ESTIMATION. The Australian Journal of Statistics, 1997, 39, 47-56.	0.2	24
42	Effects of ambient carbon monoxide on daily hospitalizations for cardiovascular disease: a time-stratified case-crossover study of 460,938 cases in Beijing, China from 2013 to 2017. Environmental Health, 2018, 17, 82.	4.0	23
43	Combined and Least Squares Empirical Likelihood. Annals of the Institute of Statistical Mathematics, 1998, 50, 697-714.	0.8	20
44	Local Linear Smoothers Using Asymmetric Kernels. Annals of the Institute of Statistical Mathematics, 2002, 54, 312-323.	0.8	20
45	On implied volatility for optionsâ€”Some reasons to smile and more to correct. Journal of Econometrics, 2014, 179, 1-15.	6.5	18
46	Comparing Empirical Likelihood and Bootstrap Hypothesis Tests. Journal of Multivariate Analysis, 1994, 51, 277-293.	1.0	17
47	A nonparametric approach to the analysis of two-stage mark-recapture experiments. Biometrika, 2000, 87, 633-649.	2.4	17
48	Nonparametric estimation for a class of LÃ©vy processes. Journal of Econometrics, 2010, 157, 257-271.	6.5	17
49	Matrix Completion With Covariate Information. Journal of the American Statistical Association, 2019, 114, 198-210.	3.1	17
50	Confidence Intervals Based on Local Linear Smoother. Scandinavian Journal of Statistics, 2002, 29, 89-99.	1.4	15
51	A goodness-of-fit test for parametric and semi-parametric models in multiresponse regression. Bernoulli, 2009, 15, .	1.3	14
52	Mannâ€“Whitney Test with Adjustments to Pretreatment Variables for Missing Values and Observational Study. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2013, 75, 81-102.	2.2	14
53	Meteorological Change and Impacts on Air Pollution: Results From North China. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032423.	3.3	14
54	Animal abundance estimation in independent observer line transect surveys. Environmental and Ecological Statistics, 2000, 7, 285-299.	3.5	13

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55	Empirical likelihood-based confidence intervals for data with possible zero observations. Statistics and Probability Letters, 2003, 65, 29-37.	0.7	13
56	Empirical Likelihood Methods Based on Characteristic Functions With Applications to LÃ©vy Processes. Journal of the American Statistical Association, 2009, 104, 1621-1630.	3.1	13
57	ANOVA for longitudinal data with missing values. Annals of Statistics, 2010, 38, .	2.6	13
58	Local Post-Stratification in Dual System Accuracy and Coverage Evaluation for the U.S. Census. Journal of the American Statistical Association, 2010, 105, 105-119.	3.1	13
59	Better strategies for containing COVID-19 pandemic: a study of 25 countries via a vSIADR model. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200440.	2.1	12
60	Relative importance of meteorological variables on air quality and role of boundary layer height. Atmospheric Environment, 2021, 267, 118737.	4.1	12
61	Effects of corona virus diseaseâ€19 control measures on air quality in North China. Environmetrics, 2021, 32, e2673.	1.4	11
62	More powerful tests for sparse high-dimensional covariances matrices. Journal of Multivariate Analysis, 2016, 149, 124-143.	1.0	10
63	Comparing containment measures among nations by epidemiological effects of COVID-19. National Science Review, 2020, 7, 1847-1851.	9.5	10
64	Distributed statistical inference for massive data. Annals of Statistics, 2021, 49, .	2.6	10
65	Estimation in Independent Observer Line Transect Surveys for Clustered Populations. Biometrics, 1999, 55, 754-759.	1.4	9
66	SIMULTANEOUS SPECIFICATION TESTING OF MEAN AND VARIANCE STRUCTURES IN NONLINEAR TIME SERIES REGRESSION. Econometric Theory, 2011, 27, 792-843.	0.7	8
67	Estimation in semiparametric models with missing data. Annals of the Institute of Statistical Mathematics, 2013, 65, 785-805.	0.8	8
68	A spatioâ€temporal model for the analysis and prediction of fine particulate matter concentration in Beijing. Environmetrics, 2021, 32, .	1.4	8
69	High-dimensional empirical likelihood inference. Biometrika, 2021, 108, 127-147.	2.4	8
70	Bandwidth Selection for High-Dimensional Covariance Matrix Estimation. Journal of the American Statistical Association, 2015, 110, 1160-1174.	3.1	7
71	Peter Hallâ€™s contributions to the bootstrap. Annals of Statistics, 2016, 44, .	2.6	7
72	Assessing local emission for air pollution via data experiments. Atmospheric Environment, 2021, 252, 118323.	4.1	7

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73	Detecting and Evaluating Dustâ€Events in North China With Ground Air Quality Data. Earth and Space Science, 2022, 9, e2021EA001849.	2.6	7
74	Sequential Estimation in Line Transect Surveys. Biometrics, 2002, 58, 263-269.	1.4	5
75	Detecting rare and faint signals via thresholding maximum likelihood estimators. Annals of Statistics, 2018, 46, .	2.6	5
76	Improving inflation prediction with the quantity theory. Economics Letters, 2016, 149, 112-115.	1.9	4
77	Testing super-diagonal structure in high dimensional covariance matrices. Journal of Econometrics, 2016, 194, 283-297.	6.5	4
78	Inference for variance risk premium. China Finance Review International, 2020, 11, 26-52.	8.4	4
79	Nonparametric regression with discrete covariate and missing values. Statistics and Its Interface, 2011, 4, 463-474.	0.3	4
80	Functional coefficient moving average model with application to forecasting Chinese CPI. Statistica Sinica, 2016, , .	0.3	4
81	On the calculation of standard error for quotation in confidence statements. Statistics and Probability Letters, 1994, 19, 147-151.	0.7	3
82	Combining quantitative trait loci analyses and microarray data: An empirical likelihood approach. Computational Statistics and Data Analysis, 2009, 53, 1661-1673.	1.2	3
83	Properties of Census Dual System Population Size Estimators. International Statistical Review, 2011, 79, 336-361.	1.9	3
84	Enhancing Estimation for Interest Rate Diffusion Models With Bond Prices. Journal of Business and Economic Statistics, 2017, 35, 486-498.	2.9	3
85	HIGH-DIMENSIONAL TWO-SAMPLE COVARIANCE MATRIX TESTING VIA SUPER-DIAGONALS. Statistica Sinica, 2018, , .	0.3	3
86	Radiative Effects of Particular Matters on Ozone Pollution in Six North China Cities. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	3.3	3
87	A Condition for Designing Bus-Route Type Access Site Surveys to Estimate Recreational Fishing Effort. Biometrics, 1999, 55, 799-804.	1.4	2
88	Asymptotic Quasi-Likelihood Based on Kernel Smoothing for Multivariate Heteroschedastic Models with Correlation. American Journal of Mathematical and Management Sciences, 2010, 30, 147-177.	0.9	2
89	Improving PM2.5 Forecasts in China Using an Initial Error Transport Model. Environmental Science & Technology, 2020, 54, 10493-10501.	10.0	2
90	Episode based air quality assessment. Atmospheric Environment, 2022, 285, 119242.	4.1	2

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91	Matrix Completion under Low-Rank Missing Mechanism. Statistica Sinica, 2021, , .	0.3	1
92	An Empirical Likelihood Goodness-of-Fit Test for Diffusions. , 2002, , 259-281.		1
93	On smoothing estimation for seasonal time series with long cycles. Statistics and Its Interface, 2013, 6, 435-447.	0.3	1
94	Rejoinder on: AÂreview on empirical likelihood methods for regression. Test, 2009, 18, 468-474.	1.1	0
95	Discussion on â€œThe timing and effectiveness of implementing mild interventions of COVID-19 in large industrial regions via a synthetic control methodâ€•by Tian <i>et al.</i>. Statistics and Its Interface, 2021, 14, 23-24.	0.3	0
96	Simultaneous Testing of the Mean and Variance Structures in Nonlinear Time Series Models. SSRN Electronic Journal, 0, , .	0.4	0