

# Ming Yuan

## List of Publications by Citations

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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.

75  
papers

6,265  
citations

24  
h-index

79  
g-index

81  
ext. papers

7,369  
ext. citations

3  
avg, IF

6.34  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 75 | Model selection and estimation in regression with grouped variables. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2006</b> , 68, 49-67   | 3.9  | 3554      |
| 74 | Model selection and estimation in the Gaussian graphical model. <i>Biometrika</i> , <b>2007</b> , 94, 19-35  | 2    | 821       |
| 73 | On the non-negative garrotte estimator. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2007</b> , 69, 143-161  | 3.9  | 160       |
| 72 | CARM1 methylates chromatin remodeling factor BAF155 to enhance tumor progression and metastasis. <i>Cancer Cell</i> , <b>2014</b> , 25, 21-36  | 24.3 | 159       |
| 71 | Dimension reduction and coefficient estimation in multivariate linear regression. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2007</b> , 69, 329-346                              | 3.9  | 142       |
| 70 | Efficient Empirical Bayes Variable Selection and Estimation in Linear Models. <i>Journal of the American Statistical Association</i> , <b>2005</b> , 100, 1215-1225  | 2.8  | 133       |
| 69 | On Tensor Completion via Nuclear Norm Minimization. <i>Foundations of Computational Mathematics</i> , <b>2016</b> , 16, 1031-1068  | 2.7  | 96        |
| 68 | GACV for quantile smoothing splines. <i>Computational Statistics and Data Analysis</i> , <b>2006</b> , 50, 813-829   | 1.6  | 87        |
| 67 | Minimax and Adaptive Prediction for Functional Linear Regression. <i>Journal of the American Statistical Association</i> , <b>2012</b> , 107, 1201-1216  | 2.8  | 67        |
| 66 | Quantitating the cell: turning images into numbers with ImageJ. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , <b>2017</b> , 6, e260  | 5.9  | 66        |
| 65 | Signal inhibition by the dual-specific phosphatase 4 impairs T cell-dependent B-cell responses with age. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E879-88 | 11.5 | 66        |
| 64 | Adaptive covariance matrix estimation through block thresholding. <i>Annals of Statistics</i> , <b>2012</b> , 40,  | 3.2  | 60        |
| 63 | Structured variable selection and estimation. <i>Annals of Applied Statistics</i> , <b>2009</b> , 3,   | 2.1  | 59        |
| 62 | Hidden Markov Models for Microarray Time Course Data in Multiple Biological Conditions. <i>Journal of the American Statistical Association</i> , <b>2006</b> , 101, 1323-1332  | 2.8  | 58        |
| 61 | An Efficient Variable Selection Approach for Analyzing Designed Experiments. <i>Technometrics</i> , <b>2007</b> , 49, 430-439  | 1.4  | 49        |
| 60 | Regularized simultaneous model selection in multiple quantiles regression. <i>Computational Statistics and Data Analysis</i> , <b>2008</b> , 52, 5296-5304   | 1.6  | 43        |
| 59 | Research resource: global identification of estrogen receptor $\beta$ target genes in triple negative breast cancer cells. <i>Molecular Endocrinology</i> , <b>2013</b> , 27, 1762-75  |      | 42        |

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|----|--|------|----|
| 58 | Statistical Methods for Fighting Financial Crimes. <i>Technometrics</i> , <b>2010</b> , 52, 5-19   | 1.4  | 37 |
| 57 | Reinforced Multicategory Support Vector Machines. <i>Journal of Computational and Graphical Statistics</i> , <b>2011</b> , 20, 901-919   | 1.4  | 37 |
| 56 | A unified approach for simultaneous gene clustering and differential expression identification. <i>Biometrics</i> , <b>2006</b> , 62, 1089-98                                  | 1.8  | 32 |
| 55 | Statistical Significance of Clustering using Soft Thresholding. <i>Journal of Computational and Graphical Statistics</i> , <b>2015</b> , 24, 975-993                           | 1.4  | 29 |
| 54 | Regularized parameter estimation in high-dimensional gaussian mixture models. <i>Neural Computation</i> , <b>2011</b> , 23, 1605-22  | 2.9  | 29 |
| 53 | Approximate Test Risk Bound Minimization Through Soft Margin Estimation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2007</b> , 15, 2393-2404        |      | 25 |
| 52 | Incoherent Tensor Norms and Their Applications in Higher Order Tensor Completion. <i>IEEE Transactions on Information Theory</i> , <b>2017</b> , 63, 6753-6766                 | 2.8  | 24 |
| 51 | Sparse recovery: from vectors to tensors. <i>National Science Review</i> , <b>2018</b> , 5, 756-767  | 10.8 | 23 |
| 50 | On Sparse representation for Optimal Individualized Treatment Selection with Penalized Outcome Weighted Learning. <i>Stat</i> , <b>2015</b> , 4, 59-68                         | 0.7  | 23 |
| 49 | Convex regularization for high-dimensional multiresponse tensor regression. <i>Annals of Statistics</i> , <b>2019</b> , 47,  | 3.2  | 22 |
| 48 | Support vector machines with a reject option. <i>Bernoulli</i> , <b>2011</b> , 17,   | 1.6  | 21 |
| 47 | Convex optimization methods for dimension reduction and coefficient estimation in multivariate linear regression. <i>Mathematical Programming</i> , <b>2012</b> , 131, 163-194 | 2.1  | 20 |
| 46 | Efficient Computation of $\ell_1$ Regularized Estimates in Gaussian Graphical Models. <i>Journal of Computational and Graphical Statistics</i> , <b>2008</b> , 17, 809-826     | 1.4  | 20 |
| 45 | Risk Classification with an Adaptive Naive Bayes Kernel Machine Model. <i>Journal of the American Statistical Association</i> , <b>2015</b> , 110, 393-404                     | 2.8  | 16 |
| 44 | Flexible temporal expression profile modelling using the Gaussian process. <i>Computational Statistics and Data Analysis</i> , <b>2006</b> , 51, 1754-1764                     | 1.6  | 16 |
| 43 | On Polynomial Time Methods for Exact Low-Rank Tensor Completion. <i>Foundations of Computational Mathematics</i> , <b>2019</b> , 19, 1265-1313                                 | 2.7  | 15 |
| 42 | Doubly penalized likelihood estimator in heteroscedastic regression. <i>Statistics and Probability Letters</i> , <b>2004</b> , 69, 11-20                                       | 0.6  | 13 |
| 41 | Semiparametric censorship model with covariates. <i>Test</i> , <b>2005</b> , 14, 489-514   | 1.1  | 12 |

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|----|--|-----|----|
| 40 | An empirical Bayes' approach to joint analysis of multiple microarray gene expression studies. <i>Biometrics</i> , <b>2011</b> , 67, 1617-26   | 1.8 | 11 |
| 39 | Efficient Portfolio Selection in a Large Market. <i>Journal of Financial Econometrics</i> , <b>2016</b> , 14, 496-524  | 1.2 | 10 |
| 38 | Large Gaussian Covariance Matrix Estimation With Markov Structures. <i>Journal of Computational and Graphical Statistics</i> , <b>2009</b> , 18, 640-657   | 1.4 | 10 |
| 37 | Automated and Robust Quantification of Colocalization in Dual-Color Fluorescence Microscopy: A Nonparametric Statistical Approach. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> , 27, 622-636          | 8.7 | 9  |
| 36 | Discussion: Latent variable graphical model selection via convex optimization. <i>Annals of Statistics</i> , <b>2012</b> , 40,   | 3.2 | 9  |
| 35 | On the identifiability of additive index models. <i>Statistica Sinica</i> , <b>2011</b> , 21,  | 0.7 | 9  |
| 34 | Regularized parameter estimation of high dimensional t distribution. <i>Journal of Statistical Planning and Inference</i> , <b>2009</b> , 139, 2284-2292   | 0.8 | 8  |
| 33 | A statistical analysis of memory CD8 T cell differentiation: An application of a hierarchical state space model to a short time course microarray experiment. <i>Annals of Applied Statistics</i> , <b>2007</b> , 1, | 2.1 | 8  |
| 32 | Nonparametric empirical Bayesian framework for fluorescence-lifetime imaging microscopy. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 5497-5517  | 3.5 | 8  |
| 31 | Diverse activities of viral cis-acting RNA regulatory elements revealed using multicolor, long-term, single-cell imaging. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 476-487                           | 3.5 | 7  |
| 30 | Comparing Mammography Abnormality Features to Genetic Variants in the Prediction of Breast Cancer in Women Recommended for Breast Biopsy. <i>Academic Radiology</i> , <b>2016</b> , 23, 62-9                         | 4.3 | 7  |
| 29 | A Central Limit Theorem for Random Fields of Negatively Associated Processes. <i>Journal of Theoretical Probability</i> , <b>2003</b> , 16, 309-323  | 0.5 | 7  |
| 28 | Structured variable selection in support vector machines. <i>Electronic Journal of Statistics</i> , <b>2008</b> , 2,   | 1.2 | 7  |
| 27 | ISLET: Fast and Optimal Low-Rank Tensor Regression via Importance Sketching. <i>SIAM Journal on Mathematics of Data Science</i> , <b>2020</b> , 2, 444-479   | 3.1 | 7  |
| 26 | Statistically optimal and computationally efficient low rank tensor completion from noisy entries. <i>Annals of Statistics</i> , <b>2021</b> , 49,   | 3.2 | 7  |
| 25 | Spatially Adaptive Colocalization Analysis in Dual-Color Fluorescence Microscopy. <i>IEEE Transactions on Image Processing</i> , <b>2019</b> ,   | 8.7 | 6  |
| 24 | Distance shrinkage and Euclidean embedding via regularized kernel estimation. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2016</b> , 78, 849-867                          | 3.9 | 5  |
| 23 | Efficient Global Approximation of Generalized Nonlinear $\ell_1$ -Regularized Solution Paths and Its Applications. <i>Journal of the American Statistical Association</i> , <b>2009</b> , 104, 1562-1574             | 2.8 | 5  |

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|----|--|------|---|
| 22 | Automatic Smoothing for Poisson Regression. <i>Communications in Statistics - Theory and Methods</i> , <b>2005</b> , 34, 603-617   | 0.5  | 5 |
| 21 | Deconvolving multidimensional density from partially contaminated observations. <i>Journal of Statistical Planning and Inference</i> , <b>2002</b> , 104, 147-160  | 0.8  | 5 |
| 20 | <b>2017</b> ,  |      | 4 |
| 19 | Structure-Leveraged Methods in Breast Cancer Risk Prediction. <i>Journal of Machine Learning Research</i> , <b>2016</b> , 17,  | 28.6 | 4 |
| 18 | Dimension reduction and parameter estimation for additive index models. <i>Statistics and Its Interface</i> , <b>2010</b> , 3, 493-499   | 0.4  | 4 |
| 17 | Degrees of freedom in low rank matrix estimation. <i>Science China Mathematics</i> , <b>2016</b> , 59, 2485-2502   | 0.8  | 4 |
| 16 | Radial basis function regularization for linear inverse problems with random noise. <i>Journal of Multivariate Analysis</i> , <b>2013</b> , 116, 92-108  | 1.4  | 3 |
| 15 | STRUCTURED CORRELATION DETECTION WITH APPLICATION TO COLOCALIZATION ANALYSIS IN DUAL-CHANNEL FLUORESCENCE MICROSCOPIC IMAGING.. <i>Statistica Sinica</i> , <b>2021</b> , 31, 333-360                     | 0.7  | 3 |
| 14 | Statistical process control procedures for functional data with systematic local variations. <i>IIE Transactions</i> , <b>2018</b> , 50, 448-462   | 3.3  | 2 |
| 13 | Discriminatory power of common genetic variants in personalized breast cancer diagnosis. <i>Proceedings of SPIE</i> , <b>2016</b> , 9787,  | 1.7  | 2 |
| 12 | Minimax and Adaptive Estimation of Covariance Operator for Random Variables Observed on a Lattice Graph. <i>Journal of the American Statistical Association</i> , <b>2016</b> , 111, 253-265             | 2.8  | 2 |
| 11 | Quantifying predictive capability of electronic health records for the most harmful breast cancer. <i>Proceedings of SPIE</i> , <b>2018</b> , 10577,   | 1.7  | 2 |
| 10 | Utility of Genetic Testing in Addition to Mammography for Determining Risk of Breast Cancer Depends on Patient Age. <i>AMIA Summits on Translational Science Proceedings</i> , <b>2018</b> , 2017, 81-90 | 1.1  | 2 |
| 9  | Effective Tensor Sketching via Sparsification. <i>IEEE Transactions on Information Theory</i> , <b>2021</b> , 67, 1356-1369  | 3.8  | 2 |
| 8  | Regularized principal components of heritability. <i>Computational Statistics</i> , <b>2014</b> , 29, 455-465  | 1    | 1 |
| 7  | Deconvolving Multivariate Density from Random Field. <i>Statistical Inference for Stochastic Processes</i> , <b>2003</b> , 6, 135-153  | 0.7  | 1 |
| 6  | Characterizing Spatiotemporal Transcriptome of the Human Brain Via Low-Rank Tensor Decomposition. <i>Statistics in Biosciences</i> ,1  | 1.5  | 1 |
| 5  | Comment: From Ridge Regression to Methods of Regularization. <i>Technometrics</i> , <b>2020</b> , 62, 447-450  | 1.4  | 1 |

- 4 LOCALIZING DIFFERENTIALLY EVOLVING COVARIANCE STRUCTURES VIA SCAN STATISTICS..  
*Quarterly of Applied Mathematics*, **2019**, 77, 357-398 0.7 0
- 3 Comments on "Grouping strategies and thresholding for high dimension linear models" *Journal of Statistical Planning and Inference*, **2013**, 143, 1454-1456 0.8
- 2 Statistical Analysis of Time Course Microarray Data **2011**, 299-313
- 1 Comments on "Personalized dose finding using outcome weighted learning". *Journal of the American Statistical Association*, **2017**, 111, 1524-1525 2.8