# Hao Helen Zhang

## List of Publications by Year
in descending order

| 57 papers | 4,553 citations | 304743<br>22 h-index | 197818<br>49 g-index |
|---|---|---|---|
| 61 all docs | 61 docs citations | 61 times ranked | 3790 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Machine Learning Methods-Based Modeling and Optimization of 3-D-Printed Dielectrics Around Monopole Antenna. IEEE Transactions on Antennas and Propagation, 2022, 70, 4997-5006. | 5.1 | 10 |
| 2 | Sparse Learning with Non-convex Penalty in Multi-classification. Journal of Data Science, 2021, , 56-74. | 0.9 | 0 |
| 3 | Personalized beyond Precision: Designing Unbiased Gold Standards to Improve Single-Subject Studies of Personal Genome Dynamics from Gene Products. Journal of Personalized Medicine, 2021, 11, 24. | 2.5 | 3 |
| 4 | binomialRF: interpretable combinatoric efficiency of random forests to identify biomarker interactions. BMC Bioinformatics, 2020, 21, 374. | 2.6 | 3 |
| 5 | On fusion methods for knowledge discovery from multi-omics datasets. Computational and Structural Biotechnology Journal, 2020, 18, 509-517. | 4.1 | 20 |
| 6 | Graded regulation of cellular quiescence depth between proliferation and senescence by a lysosomal dimmer switch. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22624-22634. | 7.1 | 84 |
| 7 | Phase II Trial of Chemopreventive Effects of Levonorgestrel on Ovarian and Fallopian Tube Epithelium in Women at High Risk for Ovarian Cancer: An NRG Oncology Group/GOG Study. Cancer Prevention Research, 2019, 12, 401-412. | 1.5 | 5 |
| 8 | Multiclass Probability Estimation With Support Vector Machines. Journal of Computational and Graphical Statistics, 2019, 28, 586-595. | 1.7 | 2 |
| 9 | Model Selection for High-Dimensional Quadratic Regression via Regularization. Journal of the American Statistical Association, 2018, 113, 615-625. | 3.1 | 54 |
| 10 | Nonparametric Methods for Big Data Analytics. Springer Handbooks of Computational Statistics, 2018, , 103-124. | 0.2 | 0 |
| 11 | Interaction screening by partial correlation. Statistics and Its Interface, 2018, 11, 317-325. | 0.3 | 10 |
| 12 | Discussion on â€œDoubly sparsity kernel learning with automatic variable selection and data extractionâ€. Statistics and Its Interface, 2018, 11, 425-428. | 0.3 | 0 |
| 13 | kMEn: Analyzing noisy and bidirectional transcriptional pathway responses in single subjects. Journal of Biomedical Informatics, 2017, 66, 32-41. | 4.3 | 15 |
| 14 | A Note on High-Dimensional Linear Regression With Interactions. American Statistician, 2017, 71, 291-297. | 1.6 | 16 |
| 15 | Exit from quiescence displays a memory of cell growth and division. Nature Communications, 2017, 8, 321. | 12.8 | 41 |
| 16 | Principal weighted support vector machines for sufficient dimension reduction in binary classification. Biometrika, 2017, 104, asw057. | 2.4 | 17 |
| 17 | Semiparametric single-index model for estimating optimal individualized treatment strategy. Electronic Journal of Statistics, 2017, 11, 364-384. | 0.7 | 14 |
| 18 | N-of-1-pathways MixEnrich: advancing precision medicine via single-subject analysis in discovering dynamic changes of transcriptomes. BMC Medical Genomics, 2017, 10, 27. | 1.5 | 29 |

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|---|---------|----|-----------| 
| 19 | Sparse linear regression for optimizing design parameters of double T-shaped monopole antennas. , 2017, , . | | 6 |
| 20 | Comments on: Probability enhanced effective dimension reduction for classifying sparse functional data. Test, 2016, 25, 47-51. | 1.1 | 0 |
| 21 | Sparse meta-analysis with high-dimensional data. Biostatistics, 2016, 17, 205-220. | 1.5 | 13 |
| 22 | Sparse Penalized Forward Selection for Support Vector Classification. Journal of Computational and Graphical Statistics, 2016, 25, 493-514. | 1.7 | 4 |
| 23 | Joint structure selection and estimation in the time-varying coefficient Cox model. Statistica Sinica, 2016, 26, 547-567. | 0.3 | 6 |
| 24 | eQTL networks unveil enriched mRNA master integrators downstream of complex disease-associated SNPs. Journal of Biomedical Informatics, 2015, 58, 226-234. | 4.3 | 10 |
| 25 | On optimal treatment regimes selection for mean survival time. Statistics in Medicine, 2015, 34, 1169-1184. | 1.6 | 19 |
| 26 | Sparse and efficient estimation for partial spline models with increasing dimension. Annals of the Institute of Statistical Mathematics, 2015, 67, 93-127. | 0.8 | 8 |
| 27 | A modelâ€free machine learning method for risk classification and survival probability prediction. Stat, 2014, 3, 337-350. | 0.4 | 6 |
| 28 | Probabilityâ€enhanced sufficient dimension reduction for binary classification. Biometrics, 2014, 70, 546-555. | 1.4 | 23 |
| 29 | RKHSâ€based functional nonparametric regression for sparse and irregular longitudinal data. Canadian Journal of Statistics, 2014, 42, 204-216. | 0.9 | 7 |
| 30 | Interaction Screening for Ultrahigh-Dimensional Data. Journal of the American Statistical Association, 2014, 109, 1285-1301. | 3.1 | 80 |
| 31 | Adaptive Elastic Net for Generalized Methods of Moments. Journal of Business and Economic Statistics, 2014, 32, 30-47. | 2.9 | 54 |
| 32 | Structured Functional Additive Regression in Reproducing Kernel Hilbert Spaces. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2014, 76, 581-603. | 2.2 | 40 |
| 33 | Machine learning for Big Data analytics in plants. Trends in Plant Science, 2014, 19, 798-808. | 8.8 | 220 |
| 34 | Two-Dimensional Solution Surface for Weighted Support Vector Machines. Journal of Computational and Graphical Statistics, 2014, 23, 383-402. | 1.7 | 10 |
| 35 | Variable selection for optimal treatment decision. Statistical Methods in Medical Research, 2013, 22, 493-504. | 1.5 | 104 |
| 36 | Iterative selection using orthogonal regression techniques. Statistical Analysis and Data Mining, 2013, 6, 557-564. | 2.8 | 3 |

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|---|---------|----|-----------|
| 37 | Variable selection for non‐parametric quantile regression via smoothing spline analysis of variance. Stat, 2013, 2, 255-268. | 0.4 | 17 |
| 38 | Consistent Group Identification and Variable Selection in Regression With Correlated Predictors. Journal of Computational and Graphical Statistics, 2013, 22, 319-340. | 1.7 | 23 |
| 39 | Linear or Nonlinear? Automatic Structure Discovery for Partially Linear Models. Journal of the American Statistical Association, 2011, 106, 1099-1112. | 3.1 | 136 |
| 40 | Hard or Soft Classification? Large-Margin Unified Machines. Journal of the American Statistical Association, 2011, 106, 166-177. | 3.1 | 81 |
| 41 | Surface estimation, variable selection, and the nonparametric oracle property. Statistica Sinica, 2011, 21, 679. | 0.3 | 83 |
| 42 | On Estimation of Partially Linear Transformation Models. Journal of the American Statistical Association, 2010, 105, 683-691. | 3.1 | 22 |
| 43 | Weighted Distance Weighted Discrimination and Its Asymptotic Properties. Journal of the American Statistical Association, 2010, 105, 401-414. | 3.1 | 84 |
| 44 | Bayesian Inference of Odds Ratios in Misclassified Binary Data with a Validation Substudy. Communications in Statistics Part B: Simulation and Computation, 2010, 39, 1845-1854. | 1.2 | 1 |
| 45 | Robust Model-Free Multiclass Probability Estimation. Journal of the American Statistical Association, 2010, 105, 424-436. | 3.1 | 23 |
| 46 | Automatic model selection for partially linear models. Journal of Multivariate Analysis, 2009, 100, 2100-2111. | 1.0 | 42 |
| 47 | On the adaptive elastic-net with a diverging number of parameters. Annals of Statistics, 2009, 37, 1733-1751. | 2.6 | 575 |
| 48 | FIRST: Combining forward iterative selection and shrinkage in high dimensional sparse linear regression. Statistics and Its Interface, 2009, 2, 341-348. | 0.3 | 15 |
| 49 | Support Vector Machine Classification for High Dimensional Microarray Data Analysis, With Applications in Cancer Research. , 2009, , 1-24. | | 0 |
| 50 | Sure Independence Screening for Ultrahigh Dimensional Feature Space. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2008, 70, 849-911. | 2.2 | 1,799 |
| 51 | Variable selection for the multicategory SVM via adaptive sup-norm regularization. Electronic Journal of Statistics, 2008, 2, . | 0.7 | 56 |
| 52 | Multiclass Proximal Support Vector Machines. Journal of Computational and Graphical Statistics, 2006, 15, 339-355. | 1.7 | 22 |
| 53 | Model selection in nonparametric hazard regression. Journal of Nonparametric Statistics, 2006, 18, 417-429. | 0.9 | 27 |
| 54 | Gene selection using support vector machines with non-convex penalty. Bioinformatics, 2006, 22, 88-95. | 4.1 | 230 |

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|---|---------|-----|-----------|
| 55 | Component selection and smoothing in multivariate nonparametric regression. Annals of Statistics, 2006, 34, 2272. | 2.6 | 333 |
| 56 | Model building with likelihood basis pursuit. Optimization Methods and Software, 2004, 19, 577-594. | 2.4 | 1 |
| 57 | Variable Selection and Model Building via Likelihood Basis Pursuit. Journal of the American Statistical Association, 2004, 99, 659-672. | 3.1 | 46 |