

# Hongzhe Li

## 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.

119  
papers

9,999  
citations

38  
h-index

99  
g-index

126  
ext. papers

12,597  
ext. citations

7.1  
avg, IF

6.2  
L-index

#	Paper	IF	Citations
119	Linking long-term dietary patterns with gut microbial enterotypes. <i>Science</i> , <b>2011</b> , 334, 105-8	33.3	3898
118	Correlation between intraluminal oxygen gradient and radial partitioning of intestinal microbiota. <i>Gastroenterology</i> , <b>2014</b> , 147, 1055-63.e8	13.3	464
117	Inflammation, Antibiotics, and Diet as Environmental Stressors of the Gut Microbiome in Pediatric Crohn's Disease. <i>Cell Host and Microbe</i> , <b>2015</b> , 18, 489-500	23.4	446
116	Network-constrained regularization and variable selection for analysis of genomic data. <i>Bioinformatics</i> , <b>2008</b> , 24, 1175-82	7.2	395
115	Comparative metabolomics in vegans and omnivores reveal constraints on diet-dependent gut microbiota metabolite production. <i>Gut</i> , <b>2016</b> , 65, 63-72	19.2	307
114	A functional genomic approach identifies FAL1 as an oncogenic long noncoding RNA that associates with BMI1 and represses p21 expression in cancer. <i>Cancer Cell</i> , <b>2014</b> , 26, 344-357	24.3	303
113	Copy number variation at 1q21.1 associated with neuroblastoma. <i>Nature</i> , <b>2009</b> , 459, 987-91	50.4	285
112	Disordered microbial communities in the upper respiratory tract of cigarette smokers. <i>PLoS ONE</i> , <b>2010</b> , 5, e15216	3.7	262
111	Chromosome 6p22 locus associated with clinically aggressive neuroblastoma. <i>New England Journal of Medicine</i> , <b>2008</b> , 358, 2585-93	59.2	224
110	Power and sample-size estimation for microbiome studies using pairwise distances and PERMANOVA. <i>Bioinformatics</i> , <b>2015</b> , 31, 2461-8	7.2	193
109	A Markov random field model for network-based analysis of genomic data. <i>Bioinformatics</i> , <b>2007</b> , 23, 1537-44	18.9	189
108	Association of Cesarean Delivery and Formula Supplementation With the Intestinal Microbiome of 6-Week-Old Infants. <i>JAMA Pediatrics</i> , <b>2016</b> , 170, 212-9	8.3	170
107	Testing in Microbiome-Profiling Studies with MiRKAT, the Microbiome Regression-Based Kernel Association Test. <i>American Journal of Human Genetics</i> , <b>2015</b> , 96, 797-807	11	161
106	Microbiome, Metagenomics, and High-Dimensional Compositional Data Analysis. <i>Annual Review of Statistics and Its Application</i> , <b>2015</b> , 2, 73-94	7.6	158
105	Meta-analysis of shared genetic architecture across ten pediatric autoimmune diseases. <i>Nature Medicine</i> , <b>2015</b> , 21, 1018-27	50.5	143
104	VARIABLE SELECTION FOR SPARSE DIRICHLET-MULTINOMIAL REGRESSION WITH AN APPLICATION TO MICROBIOME DATA ANALYSIS. <i>Annals of Applied Statistics</i> , <b>2013</b> , 7,	2.1	129
103	A two-part mixed-effects model for analyzing longitudinal microbiome compositional data. <i>Bioinformatics</i> , <b>2016</b> , 32, 2611-7	7.2	117

102	Gradient directed regularization for sparse Gaussian concentration graphs, with applications to inference of genetic networks. <i>Biostatistics</i> , <b>2006</b> , 7, 302-17	3.7	113
101	Variable selection in regression with compositional covariates. <i>Biometrika</i> , <b>2014</b> , 101, 785-797	2	112
100	Comparative Effectiveness of Nutritional and Biological Therapy in North American Children with Active Crohn's Disease. <i>Inflammatory Bowel Diseases</i> , <b>2015</b> , 21, 1786-93	4.5	100
99	A role for bacterial urease in gut dysbiosis and Crohn's disease. <i>Science Translational Medicine</i> , <b>2017</b> , 9,	17.5	92
98	A SPARSE CONDITIONAL GAUSSIAN GRAPHICAL MODEL FOR ANALYSIS OF GENETICAL GENOMICS DATA. <i>Annals of Applied Statistics</i> , <b>2011</b> , 5, 2630-2650	2.1	86
97	VARIABLE SELECTION AND REGRESSION ANALYSIS FOR GRAPH-STRUCTURED COVARIATES WITH AN APPLICATION TO GENOMICS. <i>Annals of Applied Statistics</i> , <b>2010</b> , 4, 1498-1516	2.1	78
96	Dietary Patterns and Growth From 12 to 24 Months of Age in African American Infants. <i>Current Developments in Nutrition</i> , <b>2021</b> , 5, 454-454	0.4	78
95	A logistic normal multinomial regression model for microbiome compositional data analysis. <i>Biometrics</i> , <b>2013</b> , 69, 1053-63	1.8	68
94	Direct estimation of differential networks. <i>Biometrika</i> , <b>2014</b> , 101, 253-268	2	65
93	The Sparse Laplacian Shrinkage Estimator for High-Dimensional Regression. <i>Annals of Statistics</i> , <b>2011</b> , 39, 2021-2046	3.2	56
92	Regression analysis for microbiome compositional data. <i>Annals of Applied Statistics</i> , <b>2016</b> , 10,	2.1	55
91	FXR-Dependent Modulation of the Human Small Intestinal Microbiome by the Bile Acid Derivative Obeticholic Acid. <i>Gastroenterology</i> , <b>2018</b> , 155, 1741-1752.e5	13.3	54
90	Covariate-Adjusted Precision Matrix Estimation with an Application in Genetical Genomics. <i>Biometrika</i> , <b>2013</b> , 100, 139-156	2	53
89	Genetic-Variation-Driven Gene-Expression Changes Highlight Genes with Important Functions for Kidney Disease. <i>American Journal of Human Genetics</i> , <b>2017</b> , 100, 940-953	11	52
88	Emerging Priorities for Microbiome Research. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 136	5.7	50
87	Genetic sharing and heritability of paediatric age of onset autoimmune diseases. <i>Nature Communications</i> , <b>2015</b> , 6, 8442	17.4	46
86	Optimal Sparse Segment Identification with Application in Copy Number Variation Analysis. <i>Journal of the American Statistical Association</i> , <b>2010</b> , 105, 1156-1166	2.8	46
85	A hidden spatial-temporal Markov random field model for network-based analysis of time course gene expression data. <i>Annals of Applied Statistics</i> , <b>2008</b> , 2,	2.1	45

84	The Ovarian Cancer Chemokine Landscape Is Conducive to Homing of Vaccine-Primed and CD3/CD28-Costimulated T Cells Prepared for Adoptive Therapy. <i>Clinical Cancer Research</i> , <b>2015</b> , 21, 2840-50 <sup>12.9</sup>	42
83	Sociability Deficits and Altered Amygdala Circuits in Mice Lacking Pcdh10, an Autism Associated Gene. <i>Biological Psychiatry</i> , <b>2017</b> , 81, 193-202	7.9 38
82	Regularization Methods for High-Dimensional Instrumental Variables Regression With an Application to Genetical Genomics. <i>Journal of the American Statistical Association</i> , <b>2015</b> , 110, 270-288	2.8 38
81	Bacterial colonization reprograms the neonatal gut metabolome. <i>Nature Microbiology</i> , <b>2020</b> , 5, 838-847	26.6 37
80	A hidden Markov random field model for genome-wide association studies. <i>Biostatistics</i> , <b>2010</b> , 11, 139-50.7	33
79	U-statistics-based tests for multiple genes in genetic association studies. <i>Annals of Human Genetics</i> , <b>2008</b> , 72, 821-33	2.2 32
78	Role of dietary fiber in the recovery of the human gut microbiome and its metabolome. <i>Cell Host and Microbe</i> , <b>2021</b> , 29, 394-407.e5	23.4 32
77	Kidney cytosine methylation changes improve renal function decline estimation in patients with diabetic kidney disease. <i>Nature Communications</i> , <b>2019</b> , 10, 2461	17.4 30
76	A change-point model for identifying 3'UTR switching by next-generation RNA sequencing. <i>Bioinformatics</i> , <b>2014</b> , 30, 2162-70	7.2 30
75	High-Dimensional Heteroscedastic Regression with an Application to eQTL Data Analysis. <i>Biometrics</i> , <b>2012</b> , 68, 316-326	1.8 25
74	More powerful genetic association testing via a new statistical framework for integrative genomics. <i>Biometrics</i> , <b>2014</b> , 70, 881-90	1.8 23
73	Comparative analyses of fecal microbiota in Chinese isolated Yao population, minority Zhuang and rural Han by 16sRNA sequencing. <i>Scientific Reports</i> , <b>2018</b> , 8, 1142	4.9 22
72	Joint Estimation of Multiple High-dimensional Precision Matrices. <i>Statistica Sinica</i> , <b>2016</b> , 26, 445-464	0.7 22
71	Generalized linear models with linear constraints for microbiome compositional data. <i>Biometrics</i> , <b>2019</b> , 75, 235-244	1.8 21
70	Multi-omic Analysis of the Interaction between Clostridioides difficile Infection and Pediatric Inflammatory Bowel Disease. <i>Cell Host and Microbe</i> , <b>2020</b> , 28, 422-433.e7	23.4 20
69	Quantifying and comparing bacterial growth dynamics in multiple metagenomic samples. <i>Nature Methods</i> , <b>2018</b> , 15, 1041-1044	21.6 20
68	A Randomized Trial Comparing the Specific Carbohydrate Diet to a Mediterranean Diet in Adults With Crohn's Disease. <i>Gastroenterology</i> , <b>2021</b> , 161, 837-852.e9	13.3 19
67	Robust Gaussian graphical modeling via l1 penalization. <i>Biometrics</i> , <b>2012</b> , 68, 1197-206	1.8 18

66	Conditional Regression Based on a Multivariate Zero-Inflated Logistic-Normal Model for Microbiome Relative Abundance Data. <i>Statistics in Biosciences</i> , <b>2018</b> , 10, 587-608	1.5	18
65	Two-sample tests of high-dimensional means for compositional data. <i>Biometrika</i> , <b>2018</b> , 105, 115-132	2	17
64	A GLM-based latent variable ordination method for microbiome samples. <i>Biometrics</i> , <b>2018</b> , 74, 448-457	1.8	17
63	A general framework for association analysis of microbial communities on a taxonomic tree. <i>Bioinformatics</i> , <b>2017</b> , 33, 1278-1285	7.2	17
62	Robust Detection and Identification of Sparse Segments in Ultra-High Dimensional Data Analysis. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2012</b> , 74, 773-797	3.9	16
61	Adjusting for High-dimensional Covariates in Sparse Precision Matrix Estimation by $\ell_1$ Penalization. <i>Journal of Multivariate Analysis</i> , <b>2013</b> , 116, 365-381	1.4	16
60	Activation of basolateral amygdala in juvenile C57BL/6J mice during social approach behavior. <i>Neuroscience</i> , <b>2016</b> , 335, 184-94	3.9	16
59	Large Covariance Estimation for Compositional Data Via Composition-Adjusted Thresholding. <i>Journal of the American Statistical Association</i> , <b>2019</b> , 114, 759-772	2.8	16
58	Genome wide nucleosome mapping for HSV-1 shows nucleosomes are deposited at preferred positions during lytic infection. <i>PLoS ONE</i> , <b>2015</b> , 10, e0117471	3.7	15
57	Multisample estimation of bacterial composition matrices in metagenomics data. <i>Biometrika</i> , <b>2020</b> , 107, 75-92	2	15
56	MATCHCLIP: locate precise breakpoints for copy number variation using CIGAR string by matching soft clipped reads. <i>Frontiers in Genetics</i> , <b>2013</b> , 4, 157	4.5	12
55	A model for paired-multinomial data and its application to analysis of data on a taxonomic tree. <i>Biometrics</i> , <b>2017</b> , 73, 1266-1278	1.8	11
54	Pathologic gene network rewiring implicates PPP1R3A as a central regulator in pressure overload heart failure. <i>Nature Communications</i> , <b>2019</b> , 10, 2760	17.4	11
53	U-statistics in genetic association studies. <i>Human Genetics</i> , <b>2012</b> , 131, 1395-401	6.3	11
52	Systematic integrated analysis of genetic and epigenetic variation in diabetic kidney disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 29013-29024	11.5	11
51	Mitochondrial dysfunction in inflammatory bowel disease alters intestinal epithelial metabolism of hepatic acylcarnitines. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	11
50	A penalized likelihood approach for bivariate conditional normal models for dynamic co-expression analysis. <i>Biometrics</i> , <b>2011</b> , 67, 299-308	1.8	10
49	Molecular analysis of the endobronchial stent microbial biofilm reveals bacterial communities that associate with stent material and frequent fungal constituents. <i>PLoS ONE</i> , <b>2019</b> , 14, e0217306	3.7	9

48	Network-based empirical Bayes methods for linear models with applications to genomic data. <i>Journal of Biopharmaceutical Statistics</i> , <b>2010</b> , 20, 209-22	1.3	8
47	Optimal Estimation of Genetic Relatedness in High-Dimensional Linear Models. <i>Journal of the American Statistical Association</i> , <b>2019</b> , 114, 358-369	2.8	8
46	Maternal gut microbiota reflecting poor diet quality is associated with spontaneous preterm birth in a prospective cohort study. <i>American Journal of Clinical Nutrition</i> , <b>2021</b> , 113, 602-611	7	8
45	A Model-Based Approach For Species Abundance Quantification Based On Shotgun Metagenomic Data. <i>Statistics in Biosciences</i> , <b>2017</b> , 9, 13-27	1.5	7
44	A Hierarchical Bayesian Model for Estimating and Inferring Differential Isoform Expression for Multi-Sample RNA-Seq Data. <i>Statistics in Biosciences</i> , <b>2013</b> , 5, 119-137	1.5	7
43	Systems biology approaches to epidemiological studies of complex diseases. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , <b>2013</b> , 5, 677-86	6.6	7
42	Global and Simultaneous Hypothesis Testing for High-Dimensional Logistic Regression Models. <i>Journal of the American Statistical Association</i> , <b>2021</b> , 116, 984-998	2.8	7
41	glmgraph: an R package for variable selection and predictive modeling of structured genomic data. <i>Bioinformatics</i> , <b>2015</b> , 31, 3991-3	7.2	6
40	Sparse simultaneous signal detection for identifying genetically controlled disease genes. <i>Journal of the American Statistical Association</i> , <b>2017</b> , 112, 1032-1046	2.8	5
39	Optimal Permutation Recovery in Permuted Monotone Matrix Model. <i>Journal of the American Statistical Association</i> , <b>2021</b> , 116, 1358-1372	2.8	5
38	Parametric modeling of whole-genome sequencing data for CNV identification. <i>Biostatistics</i> , <b>2014</b> , 15, 427-41	3.7	5
37	Introduction to Special Issue Methods for Analysis of Graphs and Networks and Their Applications in Biosciences. <i>Statistics in Biosciences</i> , <b>2012</b> , 4, 1-2	1.5	5
36	Statistical and Computational Methods in Microbiome and Metagenomics <b>2019</b> , 977-550		5
35	Integrative analysis of genetical genomics data incorporating network structures. <i>Biometrics</i> , <b>2019</b> , 75, 1063-1075	1.8	4
34	Reframing the Biological Basis of Neuroprotection Using Functional Genomics: Differentially Weighted, Time-Dependent Multifactor Pathogenesis of Human Ischemic Brain Damage. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 497	4.1	4
33	Inference for High-Dimensional Linear Mixed-Effects Models: A Quasi-Likelihood Approach. <i>Journal of the American Statistical Association</i> , 1-12	2.8	4
32	Joint testing and false discovery rate control in high-dimensional multivariate regression. <i>Biometrika</i> , <b>2018</b> , 105, 249-269	2	3
31	Transfer Learning for High-Dimensional Linear Regression: Prediction, Estimation and Minimax Optimality.. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2022</b> , 84, 149-173	3.9	3

30	MiRKAT: kernel machine regression-based global association tests for the microbiome. <i>Bioinformatics</i> , <b>2021</b> , 37, 1595-1597	7.2	3
29	Hypothesis testing for phylogenetic composition: a minimum-cost flow perspective. <i>Biometrika</i> , <b>2021</b> , 108, 17-36	2	3
28	An Integrated Gaussian Graphical Model to evaluate the impact of exposures on metabolic networks. <i>Computers in Biology and Medicine</i> , <b>2019</b> , 114, 103417	7	2
27	Medication class enrichment analysis: a novel algorithm to analyze multiple pharmacologic exposures simultaneously using electronic health record data. <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2018</b> , 25, 780-789	8.6	2
26	Optimal detection of weak positive latent dependence between two sequences of multiple tests. <i>Journal of Multivariate Analysis</i> , <b>2017</b> , 160, 169-184	1.4	2
25	Nonparametric Tests for Differential Histone Enrichment with ChIP-Seq Data. <i>Cancer Informatics</i> , <b>2015</b> , 14, 11-22	2.4	2
24	LEARNING LOCAL DIRECTED ACYCLIC GRAPHS BASED ON MULTIVARIATE TIME SERIES DATA. <i>Annals of Applied Statistics</i> , <b>2013</b> , 7, 1249-1835	2.1	2
23	Vertex Clustering in Random Graphs via Reversible Jump Markov Chain Monte Carlo. <i>Journal of Computational and Graphical Statistics</i> , <b>2008</b> , 17, 388-409	1.4	2
22	Correction to the paper Optimal False Discovery Rate Control for Dependent Data. <i>Statistics and Its Interface</i> , <b>2016</b> , 9, 33-35	0.4	2
21	Menin-regulated Pbk controls high fat diet-induced compensatory beta cell proliferation. <i>EMBO Molecular Medicine</i> , <b>2021</b> , 13, e13524	12	2
20	IFAA: Robust Association Identification and Inference for Absolute Abundance in Microbiome Analyses.. <i>Journal of the American Statistical Association</i> , <b>2021</b> , 116, 1595-1608	2.8	2
19	A Compositional Mediation Model for Binary Outcome: Application to Microbiome Studies. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	2
18	A Zero-Inflated Latent Dirichlet Allocation Model for Microbiome Studies. <i>Frontiers in Genetics</i> , <b>2020</b> , 11, 602594	4.5	2
17	Statistical Methods for Inference of Genetic Networks and Regulatory Modules143-167		1
16	Censored Data Regression in High-Dimensional and Low-Sample-Size Settings for Genomic Applications385-403		
15	Optimal Estimation of Wasserstein Distance on a Tree With an Application to Microbiome Studies. <i>Journal of the American Statistical Association</i> , <b>2020</b> , 1-17	2.8	1
14	Bayesian Balance-Regression in Microbiome Studies Using Stochastic Search <b>2021</b> , 347-362		1
13	Transfer Learning in Large-Scale Gaussian Graphical Models with False Discovery Rate Control. <i>Journal of the American Statistical Association</i> ,1-13	2.8	1

12	Optimal estimation of bacterial growth rates based on a permuted monotone matrix. <i>Biometrika</i> , <b>2021</b> , 108, 693-708	2	0
11	The Microbiome and p-Inulin in Hemodialysis: A Feasibility Study.. <i>Kidney360</i> , <b>2021</b> , 2, 445-455	1.8	0
10	Deep learning to predict the biosynthetic gene clusters in bacterial genomes.. <i>Journal of Molecular Biology</i> , <b>2022</b> , 167597	6.5	0
9	SPARSE SEGMENT IDENTIFICATIONS WITH APPLICATIONS TO DNA COPY NUMBER VARIATION ANALYSIS <b>2015</b> , 863-887		
8	Isoform Expression Analysis Based on RNA-seq Data <b>2014</b> , 247-259		
7	Hidden Markov Random Field Models for Network-Based Analysis of Genomic Data <b>2011</b> , 353-368		
6	A Bayesian Approach for Graph-constrained Estimation for High-dimensional Regression <b>2010</b> , 1, 255-272		
5	Castleman disease spectrum.. <i>Journal of Clinical Oncology</i> , <b>2020</b> , 38, 8548-8548	2.2	
4	Statistical and Computational Methods for Analysis of Shotgun Metagenomics Sequencing Data. <i>Frontiers in Probability and the Statistical Sciences</i> , <b>2021</b> , 27-43		
3	Interaction Networks in Microbiome Studies1-13		
2	Estimation of Heterogeneous Restricted Mean Survival Time Using Random Forest. <i>Frontiers in Genetics</i> , <b>2020</b> , 11, 587378	4.5	
1	INFORMATION CONTENT OF HIGH-ORDER ASSOCIATIONS OF THE HUMAN GUT MICROBIOTA NETWORK.. <i>Annals of Applied Statistics</i> , <b>2021</b> , 15, 1788-1807	2.1	