

# Hongyu Miao

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

2,698  
citations

201674

27  
h-index

197818

49  
g-index

72  
all docs

72  
docs citations

72  
times ranked

4077  
citing authors

#	ARTICLE	IF	CITATIONS
1	A two-sex model of human papillomavirus infection: Vaccination strategies and a case study. <i>Journal of Theoretical Biology</i> , 2022, 536, 111006.	1.7	8
2	Accessory Genomes Drive Independent Spread of Carbapenem-Resistant <i>Klebsiella pneumoniae</i> Clonal Groups 258 and 307 in Houston, TX. <i>MBio</i> , 2022, 13, e0049722.	4.1	17
3	Online Health Information Seeking and eHealth Literacy Among Spanish Language-“Dominant Latino Adults Receiving Care in a Community Clinic: Secondary Analysis of Pilot Randomized Controlled Trial Data. <i>JMIR Formative Research</i> , 2022, 6, e37687.	1.4	4
4	An economic and disease transmission model of human papillomavirus and oropharyngeal cancer in Texas. <i>Scientific Reports</i> , 2021, 11, 1802.	3.3	0
5	The Relationship Between Plasma BDNF and Pain in Older Adults With Knee Osteoarthritis. <i>Biological Research for Nursing</i> , 2021, 23, 629-636.	1.9	8
6	Single-cell transcriptomics identifies limbal stem cell population and cell types mapping its differentiation trajectory in limbal basal epithelium of human cornea. <i>Ocular Surface</i> , 2021, 20, 20-32.	4.4	55
7	The Effect of Music Listening on Pain in Adults Undergoing Colonoscopy: A Systematic Review and Meta-Analysis. <i>Journal of Perianesthesia Nursing</i> , 2021, 36, 573-580.e1.	0.7	6
8	The current state of cluster headache genetics. <i>Headache</i> , 2021, 61, 990-991.	3.9	1
9	Predicting 5-Year Progression and Survival Outcomes for Early Stage Non-small Cell Lung Cancer Treated with Stereotactic Ablative Radiation Therapy: Development and Validation of Robust Prognostic Nomograms. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 106, 90-99.	0.8	24
10	Functional Near-Infrared Spectroscopy to Assess Central Pain Responses in a Nonpharmacologic Treatment Trial of Osteoarthritis. <i>Journal of Neuroimaging</i> , 2020, 30, 808-814.	2.0	12
11	Modeling the viral dynamics of SARS-CoV-2 infection. <i>Mathematical Biosciences</i> , 2020, 328, 108438.	1.9	120
12	Relationship between Acculturative Stress and Pain Catastrophizing in Korean Americans. <i>Journal of Immigrant and Minority Health</i> , 2020, 23, 741-746.	1.6	2
13	Effects of atazanavir, darunavir, and raltegravir on fat and muscle among persons living with HIV. <i>HIV Research and Clinical Practice</i> , 2020, 21, 91-98.	1.1	8
14	Predicting Progression and Survival Outcomes for Early-Stage Non-Small Cell Lung Cancer Treated with Stereotactic Ablative Radiotherapy: Development and Validation of Robust Prognostic Nomograms. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 108, E12-E13.	0.8	0
15	Feasibility and efficacy of remotely supervised cranial electrical stimulation for pain in older adults with knee osteoarthritis: A randomized controlled pilot study. <i>Journal of Clinical Neuroscience</i> , 2020, 77, 128-133.	1.5	6
16	Changes in central adipose tissue after switching to integrase inhibitors. <i>HIV Research and Clinical Practice</i> , 2020, 21, 168-173.	1.1	10
17	Longitudinal effect of transcranial direct current stimulation on knee osteoarthritis patients measured by functional infrared spectroscopy: a pilot study. <i>Neurophotonics</i> , 2020, 7, 1.	3.3	17
18	Robust feature screening procedures for single and mixed types of data. <i>Journal of Statistical Computation and Simulation</i> , 2020, 90, 1173-1193.	1.2	1

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19	Investigation of temporal and spatial heterogeneities of the immune responses to Bordetella pertussis infection in the lung and spleen of mice via analysis and modeling of dynamic microarray gene expression data. <i>Infectious Disease Modelling</i> , 2019, 4, 215-226.	1.9	1
20	Efficacy of combining home-based transcranial direct current stimulation with mindfulness-based meditation for pain in older adults with knee osteoarthritis: A randomized controlled pilot study. <i>Journal of Clinical Neuroscience</i> , 2019, 70, 140-145.	1.5	40
21	The Relationship Between $\beta$ -Endorphin and Experimental Pain Sensitivity in Older Adults With Knee Osteoarthritis. <i>Biological Research for Nursing</i> , 2019, 21, 400-406.	1.9	12
22	Home-based self-administered transcranial direct current stimulation in older adults with knee osteoarthritis pain: An open-label study. <i>Journal of Clinical Neuroscience</i> , 2019, 66, 61-65.	1.5	34
23	Enhancing the ligand efficiency of anti-HIV compounds targeting frameshift-stimulating RNA. <i>Biorganic and Medicinal Chemistry</i> , 2019, 27, 2972-2977.	3.0	12
24	A Robust AUC Maximization Framework With Simultaneous Outlier Detection and Feature Selection for Positive-Unlabeled Classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 3072-3083.	11.3	12
25	Dynamic structural equation models for directed cyclic graphs: the structural identifiability problem. <i>Statistics and Its Interface</i> , 2019, 12, 365-375.	0.3	0
26	Proteomic Profiling of a Primary CD4 <sup>+</sup> T Cell Model of HIV-1 Latency Identifies Proteins Whose Differential Expression Correlates with Reactivation of Latent HIV-1. <i>AIDS Research and Human Retroviruses</i> , 2018, 34, 103-110.	1.1	4
27	The Relationship between Acculturation and Experimental Pain Sensitivity in Asian Americans with Knee Osteoarthritis. <i>Pain Research and Management</i> , 2018, 2018, 1-6.	1.8	4
28	Reply to "Letter to the Editor in response to the article, "The epidemiology of oral human papillomavirus infection in healthy populations: A systematic review and meta-analysis". <i>Oral Oncology</i> , 2018, 86, 307.	1.5	0
29	Age-Structured Population Modeling of HPV-related Cervical Cancer in Texas and US. <i>Scientific Reports</i> , 2018, 8, 14346.	3.3	7
30	Bayesian analysis of the effect of transcranial direct current stimulation on experimental pain sensitivity in older adults with knee osteoarthritis: randomized sham-controlled pilot clinical study. <i>Journal of Pain Research</i> , 2018, Volume 11, 2071-2082.	2.0	43
31	Phagocytosed photoreceptor outer segments activate mTORC1 in the retinal pigment epithelium. <i>Science Signaling</i> , 2018, 11, .	3.6	29
32	The epidemiology of oral human papillomavirus infection in healthy populations: A systematic review and meta-analysis. <i>Oral Oncology</i> , 2018, 82, 91-99.	1.5	77
33	Time-invariant biological networks with feedback loops: structural equation models and structural identifiability. <i>IET Systems Biology</i> , 2018, 12, 264-272.	1.5	3
34	p38 $\beta$ MAPK mediates ULK1-dependent induction of autophagy in skeletal muscle of tumor-bearing mice. <i>Cell Stress</i> , 2018, 2, 311-324.	3.2	30
35	Identifying the dynamic gene regulatory network during latent HIV-1 reactivation using high-dimensional ordinary differential equations. <i>International Journal of Computational Biology and Drug Design</i> , 2018, 11, 135.	0.3	0
36	Leveraging Aging in Place Through Sensor-Enhanced In-Home Monitoring. <i>Studies in Health Technology and Informatics</i> , 2018, 250, 19-23.	0.3	3

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37	Toll-like receptor 4 mediates Lewis lung carcinoma-induced muscle wasting via coordinate activation of protein degradation pathways. <i>Scientific Reports</i> , 2017, 7, 2273.	3.3	69
38	A scalable algorithm for structure identification of complex gene regulatory network from temporal expression data. <i>BMC Bioinformatics</i> , 2017, 18, 74.	2.6	5
39	Parameter identifiability-based optimal observation remedy for biological networks. <i>BMC Systems Biology</i> , 2017, 11, 53.	3.0	3
40	ChemSAR: an online pipelining platform for molecular SAR modeling. <i>Journal of Cheminformatics</i> , 2017, 9, 27.	6.1	45
41	A Novel Bromodomain Inhibitor Reverses HIV-1 Latency through Specific Binding with BRD4 to Promote Tat and P-TEFb Association. <i>Frontiers in Microbiology</i> , 2017, 8, 1035.	3.5	45
42	Structural identifiability of cyclic graphical models of biological networks with latent variables. <i>BMC Systems Biology</i> , 2016, 10, 41.	3.0	4
43	Capillary extraction by detecting polarity in circular profiles. <i>IET Image Processing</i> , 2016, 10, 339-348.	2.5	0
44	Prediction of protein-RNA interactions using sequence and structure descriptors. <i>Neurocomputing</i> , 2016, 206, 28-34.	5.9	19
45	Structure constrained nonnegative matrix factorization for pattern clustering and classification. <i>Neurocomputing</i> , 2016, 171, 400-411.	5.9	19
46	RegNetwork: an integrated database of transcriptional and post-transcriptional regulatory networks in human and mouse. <i>Database: the Journal of Biological Databases and Curation</i> , 2015, 2015, bav095.	3.0	338
47	Development of an Agent-Based Model (ABM) to Simulate the Immune System and Integration of a Regression Method to Estimate the Key ABM Parameters by Fitting the Experimental Data. <i>PLoS ONE</i> , 2015, 10, e0141295.	2.5	12
48	Structure constrained semi-nonnegative matrix factorization for EEG-based motor imagery classification. <i>Computers in Biology and Medicine</i> , 2015, 60, 32-39.	7.0	25
49	FACT Proteins, SUPT16H and SSRP1, Are Transcriptional Suppressors of HIV-1 and HTLV-1 That Facilitate Viral Latency. <i>Journal of Biological Chemistry</i> , 2015, 290, 27297-27310.	3.4	43
50	Quantifying Immune Response to Influenza Virus Infection via Multivariate Nonlinear ODE Models with Partially Observed State Variables and Time-Varying Parameters. <i>Statistics in Biosciences</i> , 2015, 7, 147-166.	1.2	4
51	T Cell Receptor Signaling Can Directly Enhance the Avidity of CD28 Ligand Binding. <i>PLoS ONE</i> , 2014, 9, e89263.	2.5	33
52	Systematic identification of transcriptional and post-transcriptional regulations in human respiratory epithelial cells during influenza A virus infection. <i>BMC Bioinformatics</i> , 2014, 15, 336.	2.6	35
53	Generalized Ordinary Differential Equation Models. <i>Journal of the American Statistical Association</i> , 2014, 109, 1672-1682.	3.1	12
54	Parameter estimation for a type of nonlinear stochastic models observed with error. <i>Computational Statistics and Data Analysis</i> , 2014, 79, 113-119.	1.2	2

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55	Modeling the Dynamics and Migratory Pathways of Virus-Specific Antibody-Secreting Cell Populations in Primary Influenza Infection. PLoS ONE, 2014, 9, e104781.	2.5	2
56	Directional histogram ratio at random probes: A local thresholding criterion for capillary images. Pattern Recognition, 2013, 46, 1933-1948.	8.1	6
57	Modeling antiretroviral drug responses for HIV-1 infected patients using differential equation models. Advanced Drug Delivery Reviews, 2013, 65, 940-953.	13.7	45
58	The interplay of structure and dynamics: Insights from a survey of HIV-1 reverse transcriptase crystal structures. Proteins: Structure, Function and Bioinformatics, 2013, 81, 1792-1801.	2.6	20
59	Evaluation of Multitype Mathematical Models for CFSE-Labeling Experiment Data. Bulletin of Mathematical Biology, 2012, 74, 300-326.	1.9	28
60	On Identifiability of Nonlinear ODE Models and Applications in Viral Dynamics. SIAM Review, 2011, 53, 3-39.	9.5	412
61	Modeling of Influenza-Specific CD8+ T Cells during the Primary Response Indicates that the Spleen Is a Major Source of Effectors. Journal of Immunology, 2011, 187, 4474-4482.	0.8	41
62	Sieve estimation of constant and time-varying coefficients in nonlinear ordinary differential equation models by considering both numerical error and measurement error. Annals of Statistics, 2010, 38, 2351-2387.	2.6	83
63	Quantifying the Early Immune Response and Adaptive Immune Response Kinetics in Mice Infected with Influenza A Virus. Journal of Virology, 2010, 84, 6687-6698.	3.4	185
64	Estimation of constant and time-varying dynamic parameters of HIV infection in a nonlinear differential equation model. Annals of Applied Statistics, 2010, 4, 460-483.	1.1	46
65	Simulation and Prediction of the Adaptive Immune Response to Influenza A Virus Infection. Journal of Virology, 2009, 83, 7151-7165.	3.4	163
66	Differential Equation Modeling of HIV Viral Fitness Experiments: Model Identification, Model Selection, and Multimodel Inference. Biometrics, 2009, 65, 292-300.	1.4	54
67	Parameter Identifiability and Estimation of HIV/AIDS Dynamic Models. Bulletin of Mathematical Biology, 2008, 70, 785-799.	1.9	118
68	Modeling and Estimation of Kinetic Parameters and Replicative Fitness of HIV-1 from Flow-Cytometry-Based Growth Competition Experiments. Bulletin of Mathematical Biology, 2008, 70, 1749-1771.	1.9	37
69	Coupled FEM and BEM code for simulating acoustically excited bubbles near deformable structures. Computational Mechanics, 2008, 42, 95-106.	4.0	31
70	Ultrasonic excitation of a bubble inside a deformable tube: Implications for ultrasonically induced hemorrhage. Journal of the Acoustical Society of America, 2008, 124, 2374-2384.	1.1	67
71	Response of an ultrasonically excited bubble near a fixed rigid object. Acoustics Research Letters Online: ARLO, 2005, 6, 144-150.	0.7	2
72	Ultrasonic excitation of a bubble near a rigid or deformable sphere: Implications for ultrasonically induced hemolysis. Journal of the Acoustical Society of America, 2005, 117, 1440-1447.	1.1	35