

# 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	On Identifiability of Nonlinear ODE Models and Applications in Viral Dynamics. <i>SIAM Review</i> , 2011, 53, 3-39.	9.5	412
2	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
3	Quantifying the Early Immune Response and Adaptive Immune Response Kinetics in Mice Infected with Influenza A Virus. <i>Journal of Virology</i> , 2010, 84, 6687-6698.	3.4	185
4	Simulation and Prediction of the Adaptive Immune Response to Influenza A Virus Infection. <i>Journal of Virology</i> , 2009, 83, 7151-7165.	3.4	163
5	Modeling the viral dynamics of SARS-CoV-2 infection. <i>Mathematical Biosciences</i> , 2020, 328, 108438.	1.9	120
6	Parameter Identifiability and Estimation of HIV/AIDS Dynamic Models. <i>Bulletin of Mathematical Biology</i> , 2008, 70, 785-799.	1.9	118
7	Sieve estimation of constant and time-varying coefficients in nonlinear ordinary differential equation models by considering both numerical error and measurement error. <i>Annals of Statistics</i> , 2010, 38, 2351-2387.	2.6	83
8	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
9	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
10	Ultrasonic excitation of a bubble inside a deformable tube: Implications for ultrasonically induced hemorrhage. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 2374-2384.	1.1	67
11	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
12	Differential Equation Modeling of HIV Viral Fitness Experiments: Model Identification, Model Selection, and Multimodel Inference. <i>Biometrics</i> , 2009, 65, 292-300.	1.4	54
13	Estimation of constant and time-varying dynamic parameters of HIV infection in a nonlinear differential equation model. <i>Annals of Applied Statistics</i> , 2010, 4, 460-483.	1.1	46
14	Modeling antiretroviral drug responses for HIV-1 infected patients using differential equation models. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 940-953.	13.7	45
15	ChemSAR: an online pipelining platform for molecular SAR modeling. <i>Journal of Cheminformatics</i> , 2017, 9, 27.	6.1	45
16	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
17	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
18	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

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19	Modeling of Influenza-Specific CD8+ T Cells during the Primary Response Indicates that the Spleen Is a Major Source of Effectors. <i>Journal of Immunology</i> , 2011, 187, 4474-4482.	0.8	41
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	Modeling and Estimation of Kinetic Parameters and Replicative Fitness of HIV-1 from Flow-Cytometry-Based Growth Competition Experiments. <i>Bulletin of Mathematical Biology</i> , 2008, 70, 1749-1771.	1.9	37
22	Ultrasonic excitation of a bubble near a rigid or deformable sphere: Implications for ultrasonically induced hemolysis. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 1440-1447.	1.1	35
23	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
24	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
25	T Cell Receptor Signaling Can Directly Enhance the Avidity of CD28 Ligand Binding. <i>PLoS ONE</i> , 2014, 9, e89263.	2.5	33
26	Coupled FEM and BEM code for simulating acoustically excited bubbles near deformable structures. <i>Computational Mechanics</i> , 2008, 42, 95-106.	4.0	31
27	p38 <sup>β</sup> 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
28	Phagocytosed photoreceptor outer segments activate mTORC1 in the retinal pigment epithelium. <i>Science Signaling</i> , 2018, 11, .	3.6	29
29	Evaluation of Multitype Mathematical Models for CFSE-Labeling Experiment Data. <i>Bulletin of Mathematical Biology</i> , 2012, 74, 300-326.	1.9	28
30	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
31	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
32	The interplay of structure and dynamics: Insights from a survey of HIV-1 reverse transcriptase crystal structures. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 1792-1801.	2.6	20
33	Prediction of protein-RNA interactions using sequence and structure descriptors. <i>Neurocomputing</i> , 2016, 206, 28-34.	5.9	19
34	Structure constrained nonnegative matrix factorization for pattern clustering and classification. <i>Neurocomputing</i> , 2016, 171, 400-411.	5.9	19
35	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
36	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

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37	Generalized Ordinary Differential Equation Models. <i>Journal of the American Statistical Association</i> , 2014, 109, 1672-1682.	3.1	12
38	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
39	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
40	Enhancing the ligand efficiency of anti-HIV compounds targeting frameshift-stimulating RNA. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 2972-2977.	3.0	12
41	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
42	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
43	Changes in central adipose tissue after switching to integrase inhibitors. <i>HIV Research and Clinical Practice</i> , 2020, 21, 168-173.	1.1	10
44	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
45	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
46	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
47	Age-Structured Population Modeling of HPV-related Cervical Cancer in Texas and US. <i>Scientific Reports</i> , 2018, 8, 14346.	3.3	7
48	Directional histogram ratio at random probes: A local thresholding criterion for capillary images. <i>Pattern Recognition</i> , 2013, 46, 1933-1948.	8.1	6
49	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
50	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
51	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
52	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
53	Structural identifiability of cyclic graphical models of biological networks with latent variables. <i>BMC Systems Biology</i> , 2016, 10, 41.	3.0	4
54	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

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55	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
56	Online Health Information Seeking and eHealth Literacy Among Spanish Language-â€œDominant 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
57	Parameter identifiability-based optimal observation remedy for biological networks. <i>BMC Systems Biology</i> , 2017, 11, 53.	3.0	3
58	Time-â€œinvariant biological networks with feedback loops: structural equation models and structural identifiability. <i>IET Systems Biology</i> , 2018, 12, 264-272.	1.5	3
59	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
60	Response of an ultrasonically excited bubble near a fixed rigid object. <i>Acoustics Research Letters Online: ARLO</i> , 2005, 6, 144-150.	0.7	2
61	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
62	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
63	Modeling the Dynamics and Migratory Pathways of Virus-Specific Antibody-Secreting Cell Populations in Primary Influenza Infection. <i>PLoS ONE</i> , 2014, 9, e104781.	2.5	2
64	Investigation of temporal and spatial heterogeneities of the immune responses to <i>Bordetella pertussis</i> 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
65	The current state of cluster headache genetics. <i>Headache</i> , 2021, 61, 990-991.	3.9	1
66	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
67	Capillary extraction by detecting polarity in circular profiles. <i>IET Image Processing</i> , 2016, 10, 339-348.	2.5	0
68	Reply to â€œLetter to the Editor in response to the article, â€œThe epidemiology of oral human papillomavirus infection in healthy populations: A systematic review and meta-analysisâ€™â€œ. <i>Oral Oncology</i> , 2018, 86, 307.	1.5	0
69	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
70	An economic and disease transmission model of human papillomavirus and oropharyngeal cancer in Texas. <i>Scientific Reports</i> , 2021, 11, 1802.	3.3	0
71	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
72	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