

# Yi Jiang

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

2,578  
citations

257450

24  
h-index

206112

48  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3591  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracellular matrix in cancer progression and therapy. <i>Medical Review</i> , 2022, 2, 125-139.	1.2	10
2	Morphometric Analysis of Retinal Pigment Epithelial Cells From C57BL/6J Mice During Aging. , 2021, 62, 32.		18
3	Computational Model-Based Estimation of Mouse Eyeball Structure From Two-Dimensional Flatmount Microscopy Images. <i>Translational Vision Science and Technology</i> , 2021, 10, 25.	2.2	1
4	Mask-Ematics: Modeling the Effects of Masks in COVID-19 Transmission in High-Risk Environments. <i>Epidemiologia</i> , 2021, 2, 207-226.	2.2	2
5	Different translation dynamics of $\hat{\Gamma}^2$ - and $\hat{\Gamma}^3$ -actin regulates cell migration. <i>ELife</i> , 2021, 10, .	6.0	28
6	Tensile force-induced cytoskeletal remodeling: Mechanics before chemistry. <i>PLoS Computational Biology</i> , 2020, 16, e1007693.	3.2	15
7	Increasing Incidence of Liposarcoma: A Population-Based Study of National Surveillance Databases, 2001â€”2016. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2710.	2.6	32
8	Designing a typhoid environmental surveillance study: A simulation model for optimum sampling site allocation. <i>Epidemics</i> , 2020, 31, 100391.	3.0	21
9	Predicting Metastasis Risk in Pancreatic Neuroendocrine Tumors Using Deep Learning Image Analysis. <i>Frontiers in Oncology</i> , 2020, 10, 593211.	2.8	20
10	Tensile force-induced cytoskeletal remodeling: Mechanics before chemistry. , 2020, 16, e1007693.		0
11	Tensile force-induced cytoskeletal remodeling: Mechanics before chemistry. , 2020, 16, e1007693.		0
12	Tensile force-induced cytoskeletal remodeling: Mechanics before chemistry. , 2020, 16, e1007693.		0
13	Tensile force-induced cytoskeletal remodeling: Mechanics before chemistry. , 2020, 16, e1007693.		0
14	Bipartite interface of the measles virus phosphoprotein X domain with the large polymerase protein regulates viral polymerase dynamics. <i>PLoS Pathogens</i> , 2019, 15, e1007995.	4.7	15
15	Mathematical Modeling of Mucociliary Clearance: A Mini-Review. <i>Cells</i> , 2019, 8, 736.	4.1	15
16	A whole slide image-based machine learning approach to predict ductal carcinoma in situ (DCIS) recurrence risk. <i>Breast Cancer Research</i> , 2019, 21, 83.	5.0	39
17	Comparison of histologic findings in age-related macular degeneration with RPE flatmount images. <i>Molecular Vision</i> , 2019, 25, 70-78.	1.1	12
18	Cellular Potts Model: Applications to Vasculogenesis and Angiogenesis. <i>Emergence, Complexity and Computation</i> , 2018, , 279-310.	0.3	9

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19	A Multiscale Model of Cell Migration in Three-Dimensional Extracellular Matrix. Modeling and Simulation in Science, Engineering and Technology, 2018, , 61-76.	0.6	0
20	Association of Uveal Melanoma Metastatic Rate With Stochastic Mutation Rate and Type of Mutation. JAMA Ophthalmology, 2018, 136, 1115.	2.5	27
21	A three-dimensional collagen-fiber network model of the extracellular matrix for the simulation of the mechanical behaviors and micro structures. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 991-1003.	1.6	12
22	Local alignment vectors reveal cancer cell-induced ECM fiber remodeling dynamics. Scientific Reports, 2017, 7, 39498.	3.3	30
23	Training-based Workforce Development in Advanced Computing for Research and Education (ACoRE). , 2017, , .		12
24	LKB1 kinase-dependent and -independent defects disrupt polarity and adhesion signaling to drive collagen remodeling during invasion. Molecular Biology of the Cell, 2016, 27, 1069-1084.	2.1	26
25	Cell-ECM Interactions in Tumor Invasion. Advances in Experimental Medicine and Biology, 2016, 936, 73-91.	1.6	64
26	Spatial Modeling of Drug Delivery Routes for Treatment of Disseminated Ovarian Cancer. Cancer Research, 2016, 76, 1320-1334.	0.9	36
27	RPE Cell and Sheet Properties in Normal and Diseased Eyes. Advances in Experimental Medicine and Biology, 2016, 854, 757-763.	1.6	27
28	Simulation of 3D tumor cell growth using nonlinear finite element method. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 807-818.	1.6	6
29	Intrusive tumor growth inspired optimization algorithm for data clustering. Neural Computing and Applications, 2016, 27, 349-374.	5.6	11
30	Analysis of RPE morphometry in human eyes. Molecular Vision, 2016, 22, 898-916.	1.1	33
31	The eighth q-bio conference: meeting report and special issue preface. Physical Biology, 2015, 12, 060401.	1.8	0
32	Fast adaptive flat-histogram ensemble to enhance the sampling in large systems. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	5.1	1
33	Cilium height difference between strokes is more effective in driving fluid transport in mucociliary clearance: A numerical study. Mathematical Biosciences and Engineering, 2015, 12, 1107-1126.	1.9	5
34	Methodologies for analysis of patterning in the mouse RPE sheet. Molecular Vision, 2015, 21, 40-60.	1.1	22
35	A Three-Dimensional Computational Model of Collagen Network Mechanics. PLoS ONE, 2014, 9, e111896.	2.5	63
36	A hybrid mathematical model of tumor-induced angiogenesis with blood perfusion. Tsinghua Science and Technology, 2014, 19, 648-657.	6.1	3

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37	The Seventh q-bio Conference: meeting report and preface. <i>Physical Biology</i> , 2014, 11, 040301.	1.8	1
38	SIMULATION OF GROWTH AND DIVISION OF 3D CELLS BASED ON FINITE ELEMENT METHOD. <i>International Journal of Applied Mechanics</i> , 2014, 06, 1450041.	2.2	6
39	3D Collagen Alignment Limits Protrusions to Enhance Breast Cancer Cell Persistence. <i>Biophysical Journal</i> , 2014, 107, 2546-2558.	0.5	346
40	Analysis of Mouse RPE Sheet Morphology Gives Discriminatory Categories. <i>Advances in Experimental Medicine and Biology</i> , 2014, 801, 601-607.	1.6	10
41	Special section dedicated to The Sixth q-bio Conference: meeting report and preface. <i>Physical Biology</i> , 2013, 10, 030301.	1.8	2
42	Ovarian Tumor Attachment, Invasion, and Vascularization Reflect Unique Microenvironments in the Peritoneum: Insights from Xenograft and Mathematical Models. <i>Frontiers in Oncology</i> , 2013, 3, 97.	2.8	45
43	Functional Principal Component Analysis Reveals Discriminating Categories of Retinal Pigment Epithelial Morphology in Mice. , 2013, 54, 7274.		27
44	Analysis of the RPE Sheet in the rd10 Retinal Degeneration Model. <i>Advances in Experimental Medicine and Biology</i> , 2012, 723, 641-647.	1.6	30
45	Adhesion Failures Determine the Pattern of Choroidal Neovascularization in the Eye: A Computer Simulation Study. <i>PLoS Computational Biology</i> , 2012, 8, e1002440.	3.2	39
46	Cell-Based Models of Tumor Angiogenesis. , 2012, , 135-150.		2
47	Self-organization in bacterial swarming: lessons from myxobacteria. <i>Physical Biology</i> , 2011, 8, 055003.	1.8	20
48	Selected papers from the Fourth Annual q-bio Conference on Cellular Information Processing. <i>Physical Biology</i> , 2011, 8, 050301.	1.8	2
49	Periodic reversal of direction allows Myxobacteria to swarm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1222-1227.	7.1	139
50	Topography of Extracellular Matrix Mediates Vascular Morphogenesis and Migration Speeds in Angiogenesis. <i>PLoS Computational Biology</i> , 2009, 5, e1000445.	3.2	190
51	A Hybrid Parallel Framework for the Cellular Potts Model Simulations. , 2009, , .		6
52	Application of molecular dynamics computer simulations in the design of a minimal self-replicating molecular machine. <i>Complexity</i> , 2008, 13, 10-17.	1.6	1
53	Bridging coarse-grained models by jump-in-sample simulations. <i>Journal of Chemical Physics</i> , 2008, 128, 174107.	3.0	4
54	Social Interactions in Myxobacterial Swarming. <i>PLoS Computational Biology</i> , 2007, 3, e253.	3.2	54

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55	Molecular Dynamics Study of Small PNA Molecules in Lipid-Water System. <i>Biophysical Journal</i> , 2007, 92, 3081-3091.	0.5	22
56	A Cell-Based Model Exhibiting Branching and Anastomosis during Tumor-Induced Angiogenesis. <i>Biophysical Journal</i> , 2007, 92, 3105-3121.	0.5	281
57	A Multiscale, Cell-Based Framework for Modeling Cancer Development. <i>Lecture Notes in Computer Science</i> , 2007, , 770-777.	1.3	1
58	A General Long-Time Molecular Dynamics Scheme in Atomistic Systems: Hyperdynamics in Entropy Dominated Systems. <i>Lecture Notes in Computer Science</i> , 2007, , 826-833.	1.3	2
59	A three-dimensional model of myxobacterial fruiting-body formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17255-17259.	7.1	39
60	Hyperdynamics for entropic systems: Time-space compression and pair correlation function approximation. <i>Physical Review E</i> , 2006, 74, 035701.	2.1	13
61	ON MODELING COMPLEX COLLECTIVE BEHAVIOR IN MYXOBACTERIA. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2006, 09, 353-367.	1.4	3
62	CA Models of Myxobacteria Swarming. <i>Lecture Notes in Computer Science</i> , 2006, , 192-203.	1.3	4
63	A three-dimensional model of myxobacterial aggregation by contact-mediated interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11308-11312.	7.1	56
64	A Multiscale Model for Avascular Tumor Growth. <i>Biophysical Journal</i> , 2005, 89, 3884-3894.	0.5	330
65	Role of streams in myxobacteria aggregate formation. <i>Physical Biology</i> , 2004, 1, 173-183.	1.8	18
66	Lattice gas cellular automation model for rippling and aggregation in myxobacteria. <i>Physica D: Nonlinear Phenomena</i> , 2004, 191, 343-358.	2.8	31
67	BIOLOGICAL LATTICE GAS MODELS. <i>World Scientific Series on Nonlinear Science, Series B</i> , 2004, , 274-291.	0.2	5
68	On Cellular Automaton Approaches to Modeling Biological Cells. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2003, , 1-39.	0.5	46
69	Hysteresis and avalanches in two-dimensional foam rheology simulations. <i>Physical Review E</i> , 1999, 59, 5819-5832.	2.1	77
70	Possible Cooperation of Differential Adhesion and Chemotaxis in Mound Formation of <i>Dictyostelium</i> . <i>Biophysical Journal</i> , 1998, 75, 2615-2625.	0.5	80
71	Extended large- $Q$ Potts model simulation of foam drainage. <i>Philosophical Magazine Letters</i> , 1996, 74, 119-128.	1.2	25