Sui Huang

List of Publications by Year
in descending order

80 papers	11,678 citations	50244 46 h-index	71651 76 g-index
86 all docs	86 docs citations	86 times ranked	13267 citing authors

#	Article	IF	Citations
1	Transcriptome-wide noise controls lineage choice in mammalian progenitor cells. Nature, 2008, 453, 544-547.	13.7	1,007
2	The structural and mechanical complexity of cell-growth control. Nature Cell Biology, 1999, 1, E131-E138.	4.6	696
3	Cell Fates as High-Dimensional Attractor States of a Complex Gene Regulatory Network. Physical Review Letters, 2005, 94, 128701.	2.9	605
4	Shape-Dependent Control of Cell Growth, Differentiation, and Apoptosis: Switching between Attractors in Cell Regulatory Networks. Experimental Cell Research, 2000, 261, 91-103.	1.2	551
5	Bifurcation dynamics in lineage-commitment in bipotent progenitor cells. Developmental Biology, 2007, 305, 695-713.	0.9	494
6	Cancer attractors: A systems view of tumors from a gene network dynamics and developmental perspective. Seminars in Cell and Developmental Biology, 2009, 20, 869-876.	2.3	491
7	Non-genetic heterogeneity â€" a mutation-independent driving force for the somatic evolution of tumours. Nature Reviews Genetics, 2009, 10, 336-342.	7.7	455
8	Multi-Omics Resolves a Sharp Disease-State Shift between Mild and Moderate COVID-19. Cell, 2020, 183, 1479-1495.e20.	13.5	449
9	Non-genetic heterogeneity of cells in development: more than just noise. Development (Cambridge), 2009, 136, 3853-3862.	1.2	441
10	Gene expression profiling, genetic networks, and cellular states: an integrating concept for tumorigenesis and drug discovery. Journal of Molecular Medicine, 1999, 77, 469-480.	1.7	384
11	High-Betweenness Proteins in the Yeast Protein Interaction Network. Journal of Biomedicine and Biotechnology, 2005, 2005, 96-103.	3.0	374
12	Stemness of the hybrid Epithelial/Mesenchymal State in Breast Cancer and Its Association with Poor Survival. PLoS ONE, 2015, 10, e0126522.	1.1	330
13	Cell Fate Decision as High-Dimensional Critical State Transition. PLoS Biology, 2016, 14, e2000640.	2.6	298
14	Regulation of inflammation in cancer by eicosanoids. Prostaglandins and Other Lipid Mediators, 2011, 96, 27-36.	1.0	280
15	Reprogramming cell fates: reconciling rarity with robustness. BioEssays, 2009, 31, 546-560.	1.2	275
16	Non-Darwinian dynamics in therapy-induced cancer drug resistance. Nature Communications, 2013, 4, 2467.	5.8	244
17	Epoxyeicosanoids stimulate multiorgan metastasis and tumor dormancy escape in mice. Journal of Clinical Investigation, 2012, 122, 178-191.	3.9	242
18	The molecular and mathematical basis of Waddington's epigenetic landscape: A framework for postâ€Darwinian biology?. BioEssays, 2012, 34, 149-157.	1.2	241

#	Article	IF	Citations
19	The Potential Landscape of Genetic Circuits Imposes the Arrow of Time in Stem Cell Differentiation. Biophysical Journal, 2010, 99, 29-39.	0.2	208
20	Resolvins suppress tumor growth and enhance cancer therapy. Journal of Experimental Medicine, 2018, 215, 115-140.	4.2	200
21	Quasi-potential landscape in complex multi-stable systems. Journal of the Royal Society Interface, 2012, 9, 3539-3553.	1.5	199
22	Understanding gene circuits at cell-fate branch points for rational cell reprogramming. Trends in Genetics, 2011, 27, 55-62.	2.9	185
23	Inflammation resolution: a dual-pronged approach to averting cytokine storms in COVID-19?. Cancer and Metastasis Reviews, 2020, 39, 337-340.	2.7	169
24	Multistable and multistep dynamics in neutrophil differentiation. BMC Cell Biology, 2006, 7, 11.	3.0	155
25	Genetic and non-genetic instability in tumor progression: link between the fitness landscape and the epigenetic landscape of cancer cells. Cancer and Metastasis Reviews, 2013, 32, 423-448.	2.7	154
26	A Non-Genetic Basis for Cancer Progression and Metastasis: Self-Organizing Attractors in Cell Regulatory Networks. Breast Disease, 2007, 26, 27-54.	0.4	143
27	Aspirin-triggered proresolving mediators stimulate resolution in cancer. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6292-6297.	3.3	110
28	Back to the biology in systems biology: What can we learn from biomolecular networks?. Briefings in Functional Genomics & Proteomics, 2004, 2, 279-297.	3.8	109
29	Anti-IL-12 antibody prevents the development and progression of collagen-induced arthritis in IFN-Î³ receptor-deficient mice. European Journal of Immunology, 1998, 28, 2143-2151.	1.6	99
30	Criticality Is an Emergent Property of Genetic Networks that Exhibit Evolvability. PLoS Computational Biology, 2012, 8, e1002669.	1.5	99
31	Cell population structure prior to bifurcation predicts efficiency of directed differentiation in human induced pluripotent cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2271-2276.	3.3	96
32	Dynamics inside the cancer cell attractor reveal cell heterogeneity, limits of stability, and escape. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2672-2677.	3.3	95
33	Preoperative stimulation of resolution and inflammation blockade eradicates micrometastases. Journal of Clinical Investigation, 2019, 129, 2964-2979.	3.9	94
34	Genomics, complexity and drug discovery: insights from Boolean network models of cellular regulation. Pharmacogenomics, 2001, 2, 203-222.	0.6	93
35	Suppression of chemotherapy-induced cytokine/lipid mediator surge and ovarian cancer by a dual COX-2/sEH inhibitor. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1698-1703.	3.3	89
36	Systems biology of stem cells: three useful perspectives to help overcome the paradigm of linear pathways. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 2247-2259.	1.8	83

#	Article	IF	Citations
37	Extracting Intercellular Signaling Network of Cancer Tissues using Ligand-Receptor Expression Patterns from Whole-tumor and Single-cell Transcriptomes. Scientific Reports, 2017, 7, 8815.	1.6	74
38	Multi-omic single-cell snapshots reveal multiple independent trajectories to drug tolerance in a melanoma cell line. Nature Communications, 2020, 11, 2345.	5.8	74
39	On the intrinsic inevitability of cancer: From foetal to fatal attraction. Seminars in Cancer Biology, 2011, 21, 183-199.	4.3	73
40	How to escape the cancer attractor: Rationale and limitations of multi-target drugs. Seminars in Cancer Biology, 2013, 23, 270-278.	4.3	65
41	Predicting Pancreas Cell Fate Decisions and Reprogramming with a Hierarchical Multi-Attractor Model. PLoS ONE, 2011, 6, e14752.	1.1	63
42	Cancer cell population growth kinetics at low densities deviate from the exponential growth model and suggest an Allee effect. PLoS Biology, 2019, 17, e3000399.	2.6	63
43	Tumor progression: Chance and necessity in Darwinian and Lamarckian somatic (mutationless) evolution. Progress in Biophysics and Molecular Biology, 2012, 110, 69-86.	1.4	61
44	Cell Lineage Determination in State Space: A Systems View Brings Flexibility to Dogmatic Canonical Rules. PLoS Biology, 2010, 8, e1000380.	2.6	60
45	Precision Oncology: Between Vaguely Right and Precisely Wrong. Cancer Research, 2017, 77, 6473-6479.	0.4	56
46	Behavior-related gene regulatory networks: A new level of organization in the brain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23270-23279.	3.3	52
47	Rational drug discovery: what can we learn from regulatory networks?. Drug Discovery Today, 2002, 7, s163-s169.	3.2	50
48	Resolution of eicosanoid/cytokine storm prevents carcinogen and inflammation-initiated hepatocellular cancer progression. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21576-21587.	3.3	48
49	Nonequilibrium Population Dynamics of Phenotype Conversion of Cancer Cells. PLoS ONE, 2014, 9, e110714.	1.1	47
50	When peers are not peers and don't know it: The Dunningâ€Kruger effect and selfâ€fulfilling prophecy in peerâ€review. BioEssays, 2013, 35, 414-416.	1.2	45
51	Relative stability of network states in Boolean network models of gene regulation in development. BioSystems, 2016, 142-143, 15-24.	0.9	45
52	Determining Relative Dynamic Stability of Cell States Using Boolean Network Model. Scientific Reports, 2018, 8, 12077.	1.6	43
53	Reconciling Non-Genetic Plasticity with Somatic Evolution in Cancer. Trends in Cancer, 2021, 7, 309-322.	3.8	41
54	Somatic polyploidy is associated with the upregulation of c-MYC interacting genes and EMT-like signature. Oncotarget, 2016, 7, 75235-75260.	0.8	39

#	Article	IF	Citations
55	Hybrid T-Helper Cells: Stabilizing the Moderate Center in a Polarized System. PLoS Biology, 2013, 11, e1001632.	2.6	38
56	Single-cell gene expression profiling and cell state dynamics: collecting data, correlating data points and connecting the dots. Current Opinion in Biotechnology, 2016, 39, 207-214.	3.3	36
57	Chemotherapyâ€generated cell debris stimulates colon carcinoma tumor growth<i>via</i>osteopontin. FASEB Journal, 2019, 33, 114-125.	0.2	35
58	Processes on the emergent landscapes of biochemical reaction networks and heterogeneous cell population dynamics: differentiation in living matters. Journal of the Royal Society Interface, 2017, 14, 20170097.	1.5	29
59	Complex Gene Regulatory NetworksÂâ€" from Structure to Biological Observables: Cell Fate Determination. , 2009, , 1180-1213.		26
60	Reduced Intracellular Drug Accumulation in Drug-Resistant Leukemia Cells is Not Only Solely Due to MDR-Mediated Efflux but also to Decreased Uptake. Frontiers in Oncology, 2014, 4, 306.	1.3	24
61	An animated landscape representation of CD4⁺ Tâ€cell differentiation, variability, and plasticity: Insights into the behavior of populations versus cells. European Journal of Immunology, 2014, 44, 2216-2229.	1.6	21
62	The War on Cancer: Lessons from the War on Terror. Frontiers in Oncology, 2014, 4, 293.	1.3	21
63	A Systems Approach to Brain Tumor Treatment. Cancers, 2021, 13, 3152.	1.7	21
64	Medusa structure of the gene regulatory network: dominance of transcription factors in cancer subtype classification. Experimental Biology and Medicine, 2011, 236, 628-636.	1.1	20
65	Loss of inter-cellular cooperation by complete epithelial-mesenchymal transition supports favorable outcomes in basal breast cancer patients. Oncotarget, 2018, 9, 20018-20033.	0.8	20
66	Beyond cancer genes: colorectal cancer as robust intrinsic states formed by molecular interactions. Open Biology, 2017, 7, 170169.	1.5	17
67	The Tension Between Big Data and Theory in the "Omics" Era of Biomedical Research. Perspectives in Biology and Medicine, 2018, 61, 472-488.	0.3	16
68	Debris-stimulated tumor growth: a Pandoraâ€™s box?. Cancer and Metastasis Reviews, 2021, 40, 791-801.	2.7	15
69	Systematic drug perturbations on cancer cells reveal diverse exit paths from proliferative state. Oncotarget, 2016, 7, 7415-7425.	0.8	13
70	Where to Go: Breaking the Symmetry in Cell Motility. PLoS Biology, 2016, 14, e1002463.	2.6	12
71	Predicting drug synergy for precision medicine using network biology and machine learning. Journal of Bioinformatics and Computational Biology, 2019, 17, 1950012.	0.3	11
72	Sequential Wnt Agonist Then Antagonist Treatment Accelerates Tissue Repair and Minimizes Fibrosis. IScience, 2020, 23, 101047.	1.9	9

#	Article	IF	Citations
73	Direct elicitation of template concentration from quantification cycle (Cq) distributions in digital PCR. Nucleic Acids Research, 2014, 42, e126-e126.	6.5	7
74	Characterization of lymphatic malformations using primary cells and tissue transcriptomes. Scandinavian Journal of Immunology, 2019, 90, e12800.	1.3	7
75	Time-dependent saddleâ€“node bifurcation: Breaking time and the point of no return in a non-autonomous model of critical transitions. Physica D: Nonlinear Phenomena, 2019, 395, 7-14.	1.3	7
76	Discrete Gene Network Models for Understanding Multicellularity and Cell Reprogramming: From Network Structure to Attractor Landscapes Landscape. , 2014, , 241-276.		5
77	Cell Fates as Attractors: Stability and Flexibility of Cellular Phenotypes. , 0, , 1767-1779.		4
78	Synergy between Resolvins and Immune Checkpoint Blockade in a Novel Transplantable FANCC â^'/â^' Murine Head and Neck Tumor Model. FASEB Journal, 2019, 33, 496.10.	0.2	1
79	IMMU-13. A FAILURE TO RESOLVE INFLAMMATION: ROLE OF RESOLVINS IN THE TREATMENT OF PEDIATRIC CNS TUMORS. Neuro-Oncology, 2018, 20, i101-i101.	0.6	0
80	Should biophysics study nonphysical quantities of biological systems? Take Max DelbrÃ¼ck for inspiration. Biophysics Reviews, 2021, 2, 040401.	1.0	0