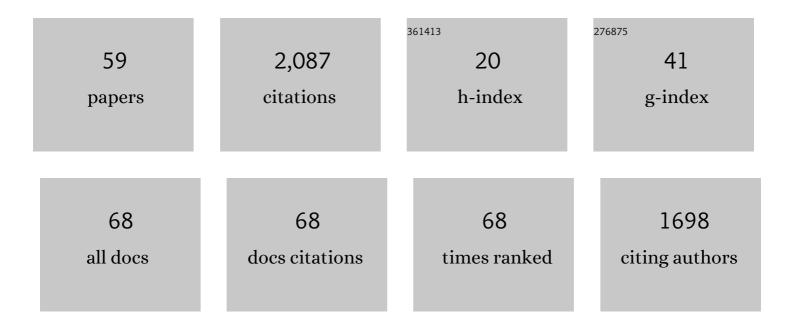
TomÃ;Å; Helikar

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8929991/publications.pdf Version: 2024-02-01



ΤομΑϊά: Ηειικαρ

#	Article	IF	CITATIONS
1	Logical Modeling and Dynamical Analysis of Cellular Networks. Frontiers in Genetics, 2016, 7, 94.	2.3	216
2	The Cell Collective: Toward an open and collaborative approach to systems biology. BMC Systems Biology, 2012, 6, 96.	3.0	199
3	Emergent decision-making in biological signal transduction networks. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1913-1918.	7.1	183
4	<scp>SBML</scp> Level 3: an extensible format for the exchange and reuse of biological models. Molecular Systems Biology, 2020, 16, e9110.	7.2	178
5	SBML qualitative models: a model representation format and infrastructure to foster interactions between qualitative modelling formalisms and tools. BMC Systems Biology, 2013, 7, 135.	3.0	145
6	Cooperative development of logical modelling standards and tools with CoLoMoTo. Bioinformatics, 2015, 31, 1154-1159.	4.1	98
7	ChemChains: a platform for simulation and analysis of biochemical networks aimed to laboratory scientists. BMC Systems Biology, 2009, 3, 58.	3.0	79
8	The CoLoMoTo Interactive Notebook: Accessible and Reproducible Computational Analyses for Qualitative Biological Networks. Frontiers in Physiology, 2018, 9, 680.	2.8	67
9	Automated inference of Boolean models from molecular interaction maps using CaSQ. Bioinformatics, 2020, 36, 4473-4482.	4.1	57
10	COVID19 Disease Map, a computational knowledge repository of virus–host interaction mechanisms. Molecular Systems Biology, 2021, 17, e10387.	7.2	53
11	A Mechanistic Computational Model Reveals That Plasticity of CD4+ T Cell Differentiation Is a Function of Cytokine Composition and Dosage. Frontiers in Physiology, 2018, 9, 878.	2.8	46
12	Simulation of Stimulation: Cytokine Dosage and Cell Cycle Crosstalk Driving Timing-Dependent T Cell Differentiation. Frontiers in Physiology, 2018, 9, 879.	2.8	44
13	A Comprehensive, Multi-Scale Dynamical Model of ErbB Receptor Signal Transduction in Human Mammary Epithelial Cells. PLoS ONE, 2013, 8, e61757.	2.5	42
14	A Cell Simulator Platform: The Cell Collective. Clinical Pharmacology and Therapeutics, 2013, 93, 393-395.	4.7	38
15	Ergodic Sets as Cell Phenotype of Budding Yeast Cell Cycle. PLoS ONE, 2012, 7, e45780.	2.5	32
16	Systems Perturbation Analysis of a Large-Scale Signal Transduction Model Reveals Potentially Influential Candidates for Cancer Therapeutics. Frontiers in Bioengineering and Biotechnology, 2016, 4, 10.	4.1	29
17	Student Understanding of DNA Structure–Function Relationships Improves from Using 3D Learning Modules with Dynamic 3D Printed Models. Biochemistry and Molecular Biology Education, 2019, 47, 303-317.	1.2	29
18	Boolean Modeling of Biochemical Networks. Open Bioinformatics Journal, 2011, 5, 16-25.	1.0	28

TomÃiÅi Helikar

#	Article	IF	CITATIONS
19	Integrating Interactive Computational Modeling in Biology Curricula. PLoS Computational Biology, 2015, 11, e1004131.	3.2	27
20	Dynamics of Influenza Virus and Human Host Interactions During Infection and Replication Cycle. Bulletin of Mathematical Biology, 2013, 75, 988-1011.	1.9	26
21	Two heads are better than one: current landscape of integrating QSP and machine learning. Journal of Pharmacokinetics and Pharmacodynamics, 2022, 49, 5-18.	1.8	26
22	Setting the basis of best practices and standards for curation and annotation of logical models in biology—highlights of the [BC]2 2019 CoLoMoTo/SysMod Workshop. Briefings in Bioinformatics, 2021, 22, 1848-1859.	6.5	25
23	Recent applications of quantitative systems pharmacology and machine learning models across diseases. Journal of Pharmacokinetics and Pharmacodynamics, 2022, 49, 19-37.	1.8	22
24	The Systems Biology Markup Language (SBML) Level 3 Package: Qualitative Models, Version 1, Release 1. Journal of Integrative Bioinformatics, 2015, 12, 270.	1.5	21
25	Bio-Logic Builder: A Non-Technical Tool for Building Dynamical, Qualitative Models. PLoS ONE, 2012, 7, e46417.	2.5	20
26	Computational Systems Biology Approach for the Study of Rheumatoid Arthritis: From a Molecular Map to a Dynamical Model. Genomics and Computational Biology, 2017, 4, 100050.	0.7	20
27	Simulated Computational Model Lesson Improves Foundational Systems Thinking Skills and Conceptual Knowledge in Biology Students. BioScience, 2018, 68, 612-621.	4.9	19
28	A practical guide to mechanistic systems modeling in biology using a logic-based approach. Briefings in Bioinformatics, 2021, 22, .	6.5	19
29	Using concept maps to characterise cellular respiration knowledge in undergraduate students. Journal of Biological Education, 2020, 54, 33-46.	1.5	18
30	Integrative computational approach identifies drug targets in CD4+ T-cell-mediated immune disorders. Npj Systems Biology and Applications, 2021, 7, 4.	3.0	18
31	Identification of potential tissue-specific cancer biomarkers and development of cancer versus normal genomic classifiers. Oncotarget, 2017, 8, 85692-85715.	1.8	18
32	Design, Assessment, and in vivo Evaluation of a Computational Model Illustrating the Role of CAV1 in CD4+ T-lymphocytes. Frontiers in Immunology, 2014, 5, 599.	4.8	16
33	SBML Level 3 package: Qualitative Models, Version 1, Release 1. Journal of Integrative Bioinformatics, 2015, 12, 691-730.	1.5	15
34	Teaching Metabolism in Upper-Division Undergraduate Biochemistry Courses using Online Computational Systems and Dynamical Models Improves Student Performance. CBE Life Sciences Education, 2021, 20, ar13.	2.3	14
35	Identification of Biologically Essential Nodes via Determinative Power in Logical Models of Cellular Processes. Frontiers in Physiology, 2018, 9, 1185.	2.8	13
36	Visualizing the Invisible: A Guide to Designing, Printing, and Incorporating Dynamic 3D Molecular Models to Teach Structure–Function Relationships. Journal of Microbiology and Biology Education, 2018, 19, .	1.0	13

TomÃiÅi Helikar

#	Article	IF	CITATIONS
37	A multi-approach and multi-scale platform to model CD4+ T cells responding to infections. PLoS Computational Biology, 2021, 17, e1009209.	3.2	12
38	Molecular phylogeny and evolutionary dynamics of influenza A nonstructural (NS) gene. Infection, Genetics and Evolution, 2014, 22, 192-200.	2.3	11
39	Modelling activities integrating construction and simulation supported explanatory and evaluative reasoning. International Journal of Science Education, 2019, 41, 1764-1786.	1.9	11
40	CancerDiscover: an integrative pipeline for cancer biomarker and cancer class prediction from high-throughput sequencing data. Oncotarget, 2018, 9, 2565-2573.	1.8	10
41	Changes in students' mental models from computational modeling of gene regulatory networks. International Journal of STEM Education, 2019, 6, .	5.0	10
42	Addressing <i>barriers in comprehensiveness, accessibility, reusability, interoperability and reproducibility of computational models in systems biology</i> . Briefings in Bioinformatics, 2022, 23, .	6.5	10
43	Essential role of systemic iron mobilization and redistribution for adaptive thermogenesis through HIF2-î±/hepcidin axis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2109186118.	7.1	9
44	Sensitivity analysis of biological Boolean networks using information fusion based on nonadditive set functions. BMC Systems Biology, 2014, 8, 92.	3.0	8
45	Interactive learning modules with 3D printed models improve student understanding of protein structure–function relationships. Biochemistry and Molecular Biology Education, 2020, 48, 356-368.	1.2	8
46	Discovering Cellular Respiration with Computational Modeling and Simulations. CourseSource, 0, 4, .	0.0	8
47	The simulation experiment description markup language (SED-ML): language specification for level 1 version 4. Journal of Integrative Bioinformatics, 2021, 18, 20210021.	1.5	8
48	Changes in lipid profiles of epileptic mouse model. Metabolomics, 2020, 16, 106.	3.0	7
49	SysMod: the ISCB community for data-driven computational modelling and multi-scale analysis of biological systems. Bioinformatics, 2021, 37, 3702-3706.	4.1	6
50	Discovering Prokaryotic Gene Regulation by Building and Investigating a Computational Model of the lac Operon. CourseSource, 0, 6, .	0.0	6
51	Simulating a Computational Biological Model, Rather Than Reading, Elicits Changes in Brain Activity during Biological Reasoning. CBE Life Sciences Education, 2020, 19, ar45.	2.3	5
52	Aberrant energy metabolism and redox balance in seizure onset zones of epileptic patients. Journal of Proteomics, 2020, 223, 103812.	2.4	4
53	Integrative network analyses of transcriptomics data reveal potential drug targets for acute radiation syndrome. Scientific Reports, 2021, 11, 5585.	3.3	4
54	Programmatic access to logical models in the Cell Collective modeling environment via a REST API. BioSystems, 2016, 139, 12-16.	2.0	3

TomÃiÅi Helikar

#	Article	IF	CITATIONS
55	Differences in Blood-Derived Francisella tularensis Type B Strains from Clinical Cases of Tularemia. Microorganisms, 2020, 8, 1515.	3.6	3
56	ccNetViz: a WebGL-based JavaScript library for visualization of large networks. Bioinformatics, 2020, 36, 4527-4529.	4.1	2
57	The Need for Research-Grade Systems Modeling Technologies for Life Science Education. Trends in Molecular Medicine, 2021, 27, 100-103.	6.7	2
58	Discovering Prokaryotic Gene Regulation with Simulations of the trp Operon. CourseSource, 0, 5, .	0.0	2
59	Decision Making in Cells. Systems Biology, 2010, , 295-336.	0.1	0