Alexander Mazein

List of Publications by Year
in descending order

30 papers	2,381 citations	516215 16 h-index	433756 31 g-index
36 all docs	36 docs citations	36 times ranked	4261 citing authors

#	Article	IF	Citations
1	A community-driven global reconstruction of human metabolism. Nature Biotechnology, 2013, 31, 419-425.	9.4	920
2	The Edinburgh human metabolic network reconstruction and its functional analysis. Molecular Systems Biology, 2007, 3, 135.	3.2	364
3	U-BIOPRED clinical adult asthma clusters linked to a subset of sputum omics. Journal of Allergy and Clinical Immunology, 2017, 139, 1797-1807.	1.5	236
4	COVID-19 Disease Map, building a computational repository of SARS-CoV-2 virus-host interaction mechanisms. Scientific Data, 2020, 7, 136.	2.4	99
5	Systems medicine disease maps: community-driven comprehensive representation of disease mechanisms. Npj Systems Biology and Applications, 2018, 4, 21.	1.4	84
6	Representing and querying disease networks using graph databases. BioData Mining, 2016, 9, 23.	2.2	75
7	MINERVAâ€"a platform for visualization and curation of molecular interaction networks. Npj Systems Biology and Applications, 2016, 2, 16020.	1.4	68
8	A comprehensive machine-readable view of the mammalian cholesterol biosynthesis pathway. Biochemical Pharmacology, 2013, 86, 56-66.	2.0	64
9	COVID19 Disease Map, a computational knowledge repository of virusâ€"host interaction mechanisms. Molecular Systems Biology, 2021, 17, e10387.	3.2	53
10	Community-driven roadmap for integrated disease maps. Briefings in Bioinformatics, 2019, 20, 659-670.	3.2	48
11	A computational framework for complex disease stratification from multiple large-scale datasets. BMC Systems Biology, 2018, 12, 60.	3.0	43
12	Systems Biology Graphical Notation: Process Description language Level 1 Version 2.0. Journal of Integrative Bioinformatics, 2019, 16, .	1.0	43
13	A model of flux regulation in the cholesterol biosynthesis pathway: Immune mediated graduated flux reduction versus statin-like led stepped flux reduction. Biochimie, 2013, 95, 613-621.	1.3	32
14	Systems Medicine: The Future of Medical Genomics, Healthcare, and Wellness. Methods in Molecular Biology, 2016, 1386, 43-60.	0.4	29
15	Recon2Neo4j: applying graph database technologies for managing comprehensive genome-scale networks. Bioinformatics, 2017, 33, 1096-1098.	1.8	25
16	RA-map: building a state-of-the-art interactive knowledge base for rheumatoid arthritis. Database: the Journal of Biological Databases and Curation, 2020, 2020, .	1.4	25
17	Newt: a comprehensive web-based tool for viewing, constructing and analyzing biological maps. Bioinformatics, 2021, 37, 1475-1477.	1.8	24
18	AsthmaMap: An expertâ€driven computational representation of disease mechanisms. Clinical and Experimental Allergy, 2018, 48, 916-918.	1.4	21

#	Article	IF	Citations
19	Systems biology graphical notation markup language (SBGNML) version 0.3. Journal of Integrative Bioinformatics, 2020, 17, .	1.0	21
20	STON: exploring biological pathways using the SBGN standard and graph databases. BMC Bioinformatics, 2016, 17, 494.	1.2	19
21	EpiGeNet: A Graph Database of Interdependencies Between Genetic and Epigenetic Events in Colorectal Cancer. Journal of Computational Biology, 2017, 24, 969-980.	0.8	16
22	Wiring diagrams in biology: towards the standardized representation of biological information. Trends in Biotechnology, 2012, 30, 555-557.	4.9	13
23	cd2sbgnml: bidirectional conversion between CellDesigner and SBGN formats. Bioinformatics, 2020, 36, 2620-2622.	1.8	9
24	Human-like layout algorithms for signalling hypergraphs: outlining requirements. Briefings in Bioinformatics, 2018, , .	3.2	8
25	AsthmaMap: An interactive knowledge repository for mechanisms of asthma. Journal of Allergy and Clinical Immunology, 2021, 147, 853-856.	1.5	6
26	CyFi-MAP: an interactive pathway-based resource for cystic fibrosis. Scientific Reports, 2021, 11, 22223.	1.6	6
27	Regulation and feedback of cholesterol metabolism. Nature Precedings, 2011, , .	0.1	5
28	SBGN Bricks Ontology as a tool to describe recurring concepts in molecular networks. Briefings in Bioinformatics, 2021, 22, .	3.2	4
29	Reusability and composability in process description maps: RAS–RAF–MEK–ERK signalling. Briefings in Bioinformatics, 2021, 22, .	3.2	3
30	MINERVA, A Platform for the Exploration of Disease Maps. , 2021, , 480-489.		0