

Eivind Almaas

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,699
citations

304602

22
h-index

197736

49
g-index

86
all docs

86
docs citations

86
times ranked

3368
citing authors

#	ARTICLE	IF	CITATIONS
1	Global organization of metabolic fluxes in the bacterium <i>Escherichia coli</i> . <i>Nature</i> , 2004, 427, 839-843.	13.7	607
2	Peeling the yeast protein network. <i>Proteomics</i> , 2005, 5, 444-449.	1.3	204
3	Comparative Genome-Scale Metabolic Reconstruction and Flux Balance Analysis of Multiple <i>Staphylococcus aureus</i> Genomes Identify Novel Antimicrobial Drug Targets. <i>Journal of Bacteriology</i> , 2009, 191, 4015-4024.	1.0	148
4	Differences in human and chimpanzee gene expression patterns define an evolving network of transcription factors in brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22358-22363.	3.3	142
5	Biological impacts and context of network theory. <i>Journal of Experimental Biology</i> , 2007, 210, 1548-1558.	0.8	126
6	Predicting synthetic rescues in metabolic networks. <i>Molecular Systems Biology</i> , 2008, 4, 168.	3.2	123
7	The Activity Reaction Core and Plasticity of Metabolic Networks. <i>PLoS Computational Biology</i> , 2005, 1, e68.	1.5	121
8	Minimum spanning trees of weighted scale-free networks. <i>Europhysics Letters</i> , 2005, 72, 308-314.	0.7	106
9	Evolutionary cores of domain co-occurrence networks. <i>BMC Evolutionary Biology</i> , 2005, 5, 24.	3.2	90
10	Addressing uncertainty in genome-scale metabolic model reconstruction and analysis. <i>Genome Biology</i> , 2021, 22, 64.	3.8	73
11	$\langle \text{core network decomposition: A generalization of } \langle \text{core analysis to weighted networks. } \mathbb{P} \rangle$ <i>Physical Review E</i> , 2013, 88, 062819.	0.8	72
12	Genome-level transcription data of <i>Yersinia pestis</i> analyzed with a New metabolic constraint-based approach. <i>BMC Systems Biology</i> , 2012, 6, 150.	3.0	68
13	Do genome-scale models need exact solvers or clearer standards?. <i>Molecular Systems Biology</i> , 2015, 11, 831.	3.2	68
14	Automated generation of genome-scale metabolic draft reconstructions based on KEGG. <i>BMC Bioinformatics</i> , 2018, 19, 467.	1.2	65
15	Possible sorting mechanism for microparticles in an evanescent field. <i>Physical Review A</i> , 2013, 87, .	1.0	45
16	wTO: an R package for computing weighted topological overlap and a consensus network with integrated visualization tool. <i>BMC Bioinformatics</i> , 2018, 19, 392.	1.2	44
17	Genome-scale reconstruction of the metabolic network in <i>Yersinia pestis</i> , strain 91001. <i>Molecular BioSystems</i> , 2009, 5, 368.	2.9	42
18	Trend Motif: A Graph Mining Approach for Analysis of Dynamic Complex Networks. , 2007, , .		39

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19	Exact results and scaling properties of small-world networks. <i>Physical Review E</i> , 2000, 61, 4268-4271.	0.8	36
20	GREM1 is associated with metastasis and predicts poor prognosis in ER-negative breast cancer patients. <i>Cell Communication and Signaling</i> , 2019, 17, 140.	2.7	32
21	Enzyme-Constrained Models and Omics Analysis of <i>Streptomyces coelicolor</i> Reveal Metabolic Changes that Enhance Heterologous Production. <i>IScience</i> , 2020, 23, 101525.	1.9	30
22	Genetic noise control via protein oligomerization. <i>BMC Systems Biology</i> , 2008, 2, 94.	3.0	28
23	Alginate Biosynthesis Factories in <i>Pseudomonas fluorescens</i> : Localization and Correlation with Alginate Production Level. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1227-1236.	1.4	26
24	The role of PCNA as a scaffold protein in cellular signaling is functionally conserved between yeast and humans. <i>FEBS Open Bio</i> , 2018, 8, 1135-1145.	1.0	23
25	Two-Component Genetic Switch as a Synthetic Module with Tunable Stability. <i>Physical Review Letters</i> , 2009, 103, 028101.	2.9	22
26	Strategies for structuring interdisciplinary education in Systems Biology: an European perspective. <i>Npj Systems Biology and Applications</i> , 2016, 2, 16011.	1.4	21
27	Predicting Strain Engineering Strategies Using iK1317: A Genome-Scale Metabolic Model of <i>Streptomyces coelicolor</i> . <i>Biotechnology Journal</i> , 2019, 14, e1800180.	1.8	21
28	Genome-scale metabolic modelling when changes in environmental conditions affect biomass composition. <i>PLoS Computational Biology</i> , 2021, 17, e1008528.	1.5	17
29	Robust Analysis of Fluxes in Genome-Scale Metabolic Pathways. <i>Scientific Reports</i> , 2017, 7, 268.	1.6	16
30	Power Laws in Biological Networks. , 2006, , 1-11.		15
31	A composite network of conserved and tissue specific gene interactions reveals possible genetic interactions in glioma. <i>PLoS Computational Biology</i> , 2017, 13, e1005739.	1.5	15
32	Dynamic Allocation of Carbon Storage and Nutrient-Dependent Exudation in a Revised Genome-Scale Model of <i>Prochlorococcus</i> . <i>Frontiers in Genetics</i> , 2021, 12, 586293.	1.1	15
33	IDENTIFYING DYNAMIC NETWORK MODULES WITH TEMPORAL AND SPATIAL CONSTRAINTS. , 2008, , .		14
34	Population-specific renal proteomes of marine and freshwater three-spined sticklebacks. <i>Journal of Proteomics</i> , 2016, 135, 112-131.	1.2	14
35	Investigating the relationship between k -core and s -core network decompositions. <i>Physica A: Statistical Mechanics and its Applications</i> , 2016, 449, 111-125.	1.2	13
36	Whole transcriptomic network analysis using Co-expression Differential Network Analysis (CoDiNA). <i>PLoS ONE</i> , 2020, 15, e0240523.	1.1	13

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37	Optimal flux patterns in cellular metabolic networks. <i>Chaos</i> , 2007, 17, 026107.	1.0	11
38	Comparative analysis of weighted gene co-expression networks in human and mouse. <i>PLoS ONE</i> , 2017, 12, e0187611.	1.1	10
39	ModelExplorer - software for visual inspection and inconsistency correction of genome-scale metabolic reconstructions. <i>BMC Bioinformatics</i> , 2019, 20, 56.	1.2	10
40	Automatic reconstruction of metabolic pathways from identified biosynthetic gene clusters. <i>BMC Bioinformatics</i> , 2021, 22, 81.	1.2	9
41	High-quality genome-scale metabolic model of <i>Aurantiochytrium</i> sp. T66. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2105-2117.	1.7	9
42	Assessment of weighted topological overlap (wTO) to improve fidelity of gene co-expression networks. <i>BMC Bioinformatics</i> , 2019, 20, 58.	1.2	8
43	Experimental determination of <i>Escherichia coli</i> biomass composition for constraint-based metabolic modeling. <i>PLoS ONE</i> , 2022, 17, e0262450.	1.1	8
44	Comparing the impact of vaccination strategies on the spread of COVID-19, including a novel household-targeted vaccination strategy. <i>PLoS ONE</i> , 2022, 17, e0263155.	1.1	8
45	NRF2 drives an oxidative stress response predictive of breast cancer. <i>Free Radical Biology and Medicine</i> , 2022, 184, 170-184.	1.3	8
46	Genome-scale reconstructions to assess metabolic phylogeny and organism clustering. <i>PLoS ONE</i> , 2020, 15, e0240953.	1.1	7
47	SCALE-FREE NETWORKS IN BIOLOGY. <i>Complex Systems and Interdisciplinary Science</i> , 2007, , 1-19.	0.2	6
48	Non-Invasive Analysis of Recombinant mRNA Stability in <i>Escherichia coli</i> by a Combination of Transcriptional Inducer Wash-Out and qRT-PCR. <i>PLoS ONE</i> , 2013, 8, e66429.	1.1	6
49	Transcriptomic Response Analysis of <i>Escherichia coli</i> to Palladium Stress. <i>Frontiers in Microbiology</i> , 2021, 12, 741836.	1.5	6
50	An adjustable algal chloroplast plug-and-play model for genome-scale metabolic models. <i>PLoS ONE</i> , 2020, 15, e0229408.	1.1	5
51	Containing pandemics through targeted testing of households. <i>BMC Infectious Diseases</i> , 2021, 21, 548.	1.3	4
52	Systems Biology of Microbial Communities. <i>Methods in Molecular Biology</i> , 2009, 500, 469-494.	0.4	4
53	Introduction to Systems Biology for Mathematical Programmers. <i>Engineering and Management Innovation</i> , 2008, , .	0.1	3
54	The Activity Reaction Core and Plasticity of Metabolic Networks. <i>PLoS Computational Biology</i> , 2005, preprint, e68.	1.5	3

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55	Robust bacterial co-occurrence community structures are independent of r- and K-selection history. Scientific Reports, 2021, 11, 23497.	1.6	3
56	Complex Network Analysis in Microbial Systems: Theory and Examples. Methods in Molecular Biology, 2012, 881, 551-571.	0.4	2
57	THE ARCHITECTURE OF COMPLEXITY: FROM WWW TO CELLULAR METABOLISM. , 2006, , 107-125.		2
58	Identification of key proteins involved in stickleback environmental adaptation with system-level analysis. Physiological Genomics, 2020, 52, 531-548.	1.0	2
59	csdR, an R package for differential co-expression analysis. BMC Bioinformatics, 2022, 23, 79.	1.2	2
60	Hypothetical biomolecular probe based on a genetic switch with tunable symmetry and stability. BMC Systems Biology, 2016, 10, 39.	3.0	1
61	ErrorTracer: an algorithm for identifying the origins of inconsistencies in genome-scale metabolic models. Bioinformatics, 2019, 36, 1644-1646.	1.8	1
62	Complex Network Analysis in Microbial Systems: Theory and Examples. Methods in Molecular Biology, 2022, 2349, 167-191.	0.4	1
63	Metabolic Networks. , 2005, , 243-264.		0
64	Scale-Free Networks in Cell Biology. , 2007, , 1760-1766.		0
65	An adjustable algal chloroplast plug-and-play model for genome-scale metabolic models. , 2020, 15, e0229408.		0
66	An adjustable algal chloroplast plug-and-play model for genome-scale metabolic models. , 2020, 15, e0229408.		0
67	An adjustable algal chloroplast plug-and-play model for genome-scale metabolic models. , 2020, 15, e0229408.		0
68	An adjustable algal chloroplast plug-and-play model for genome-scale metabolic models. , 2020, 15, e0229408.		0