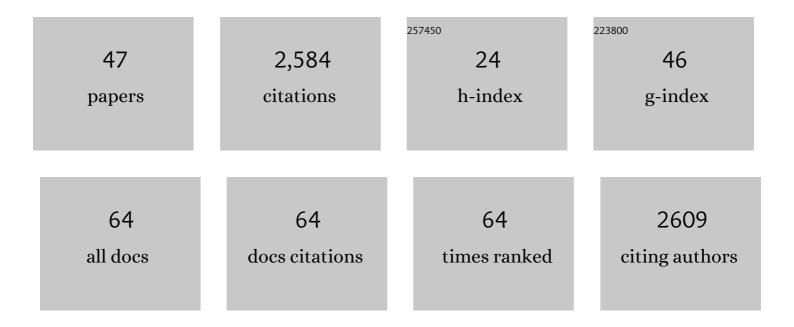
Eduard J Kerkhoven

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4116280/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Improving the phenotype predictions of a yeast genomeâ€scale metabolic model by incorporating enzymatic constraints. Molecular Systems Biology, 2017, 13, 935.	7.2	367
2	RAVEN 2.0: A versatile toolbox for metabolic network reconstruction and a case study on Streptomyces coelicolor. PLoS Computational Biology, 2018, 14, e1006541.	3.2	228
3	An atlas of human metabolism. Science Signaling, 2020, 13, .	3.6	223
4	A consensus S. cerevisiae metabolic model Yeast8 and its ecosystem for comprehensively probing cellular metabolism. Nature Communications, 2019, 10, 3586.	12.8	217
5	Barriers and opportunities in bio-based production of hydrocarbons. Nature Energy, 2018, 3, 925-935.	39.5	146
6	Regulation of amino-acid metabolism controls flux to lipid accumulation in Yarrowia lipolytica. Npj Systems Biology and Applications, 2016, 2, 16005.	3.0	141
7	Probing the Metabolic Network in Bloodstream-Form Trypanosoma brucei Using Untargeted Metabolomics with Stable Isotope Labelled Glucose. PLoS Pathogens, 2015, 11, e1004689.	4.7	128
8	Deep learning-based kcat prediction enables improved enzyme-constrained model reconstruction. Nature Catalysis, 2022, 5, 662-672.	34.4	98
9	C/N ratio and carbon source-dependent lipid production profiling in Rhodotorula toruloides. Applied Microbiology and Biotechnology, 2020, 104, 2639-2649.	3.6	71
10	A molecular genetic toolbox for Yarrowia lipolytica. Biotechnology for Biofuels, 2017, 10, 2.	6.2	62
11	Proteome analysis of xylose metabolism in Rhodotorula toruloides during lipid production. Biotechnology for Biofuels, 2019, 12, 137.	6.2	61
12	Genomeâ€scale model of <i>Rhodotorula toruloides</i> metabolism. Biotechnology and Bioengineering, 2019, 116, 3396-3408.	3.3	55
13	A domino effect in drug action: from metabolic assault towards parasite differentiation. Molecular Microbiology, 2011, 79, 94-108.	2.5	44
14	Genomeâ€scale metabolic model of <i>Pichia pastoris</i> with native and humanized glycosylation of recombinant proteins. Biotechnology and Bioengineering, 2016, 113, 961-969.	3.3	43
15	Advancing metabolic engineering of Yarrowia lipolytica using the CRISPR/Cas system. Applied Microbiology and Biotechnology, 2018, 102, 9541-9548.	3.6	43
16	SLIMEr: probing flexibility of lipid metabolism in yeast with an improved constraint-based modeling framework. BMC Systems Biology, 2019, 13, 4.	3.0	43
17	Handling Uncertainty in Dynamic Models: The Pentose Phosphate Pathway in Trypanosoma brucei. PLoS Computational Biology, 2013, 9, e1003371.	3.2	40
18	Adaptations in metabolism and protein translation give rise to the Crabtree effect in yeast. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	40

Eduard J Kerkhoven

#	Article	IF	CITATIONS
19	Reconstruction of a catalogue of genome-scale metabolic models with enzymatic constraints using GECKO 2.0. Nature Communications, 2022, 13, .	12.8	39
20	Leucine Biosynthesis Is Involved in Regulating High Lipid Accumulation in <i>Yarrowia lipolytica</i> . MBio, 2017, 8, .	4.1	38
21	Genome scale metabolic modeling of the riboflavin overproducer <i>Ashbya gossypii</i> . Biotechnology and Bioengineering, 2014, 111, 1191-1199.	3.3	35
22	TrypanoCyc: a community-led biochemical pathways database for Trypanosoma brucei. Nucleic Acids Research, 2015, 43, D637-D644.	14.5	35
23	Regulation of Yeast-to-Hyphae Transition in Yarrowia lipolytica. MSphere, 2018, 3, .	2.9	35
24	Enzyme-Constrained Models and Omics Analysis of Streptomyces coelicolor Reveal Metabolic Changes that Enhance Heterologous Production. IScience, 2020, 23, 101525.	4.1	30
25	Dynamic Modelling under Uncertainty: The Case of Trypanosoma brucei Energy Metabolism. PLoS Computational Biology, 2012, 8, e1002352.	3.2	28
26	Applications of computational modeling in metabolic engineering of yeast. FEMS Yeast Research, 2014, 15, n/a-n/a.	2.3	28
27	Crystal Structure of an Arginase-like Protein from <i>Trypanosoma brucei</i> That Evolved without a Binuclear Manganese Cluster. Biochemistry, 2015, 54, 458-471.	2.5	26
28	Multiscale models quantifying yeast physiology: towards a whole-cell model. Trends in Biotechnology, 2022, 40, 291-305.	9.3	20
29	Nitrogen as the major factor influencing gene expression in Yarrowia lipolytica. Biotechnology Reports (Amsterdam, Netherlands), 2020, 27, e00521.	4.4	18
30	Improving recombinant protein production by yeast through genome-scale modeling using proteome constraints. Nature Communications, 2022, 13, .	12.8	18
31	Mapping the metabolism of five amino acids in bloodstream form <i>Trypanosoma brucei</i> using U-13C-labelled substrates and LC–MS. Bioscience Reports, 2019, 39, .	2.4	17
32	Investigating the Influence of Glycerol on the Utilization of Glucose in <i>Yarrowia lipolytica</i> Using RNA-Seq-Based Transcriptomics. G3: Genes, Genomes, Genetics, 2019, 9, 4059-4071.	1.8	17
33	Yeast metabolic innovations emerged via expanded metabolic network and gene positive selection. Molecular Systems Biology, 2021, 17, e10427.	7.2	17
34	Reconstruction of a Genome-Scale Metabolic Model of Streptomyces albus J1074: Improved Engineering Strategies in Natural Product Synthesis. Metabolites, 2021, 11, 304.	2.9	12
35	Systemsâ€level approaches for understanding and engineering of the oleaginous cell factory <i>Yarrowia lipolytica</i> . Biotechnology and Bioengineering, 2021, 118, 3640-3654.	3.3	11
36	Trypanosoma brucei: meet the system. Current Opinion in Microbiology, 2014, 20, 162-169.	5.1	10

Eduard J Kerkhoven

#	Article	IF	CITATIONS
37	Advances in constraint-based models: methods for improved predictive power based on resource allocation constraints. Current Opinion in Microbiology, 2022, 68, 102168.	5.1	9
38	Genome-scale metabolic model of oleaginous yeast Papiliotrema laurentii. Biochemical Engineering Journal, 2022, 180, 108353.	3.6	8
39	Constraint-based modeling of yeast mitochondria reveals the dynamics of protein import and iron-sulfur cluster biogenesis. IScience, 2021, 24, 103294.	4.1	7
40	Extracting novel hypotheses and findings from RNA-seq data. FEMS Yeast Research, 2020, 20, .	2.3	6
41	Evaluating accessibility, usability and interoperability of genome-scale metabolic models for diverse yeasts species. FEMS Yeast Research, 2021, 21, .	2.3	6
42	The Silicon Trypanosome. Advances in Microbial Physiology, 2014, 64, 115-143.	2.4	5
43	Reconstruction of Genome-Scale Metabolic Model for Hansenula polymorpha Using RAVEN. Methods in Molecular Biology, 2022, , 271-290.	0.9	3
44	Modeling Lipid Metabolism in Yeast. , 2019, , 375-388.		2
45	The yeastGemMap: A process diagram to assist yeast systemsâ€metabolic studies. Biotechnology and Bioengineering, 2021, 118, 4800-4814.	3.3	1
46	Editorial: Multi-Omics Technologies for Optimizing Synthetic Biomanufacturing. Frontiers in Bioengineering and Biotechnology, 2021, 9, 818010.	4.1	1
47	Modeling Lipid Metabolism in Yeast. , 2016, , 1-14.		0