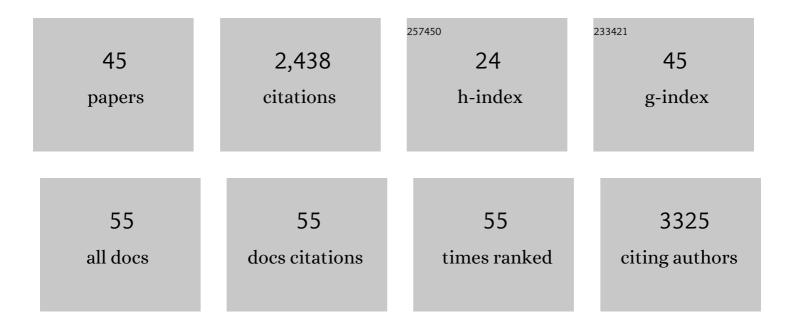
Martin Engqvist

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8221914/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Modelingâ€Assisted Design of Thermostable Benzaldehyde Lyases from <i>Rhodococcus erythropolis</i> for Continuous Production of αâ€Hydroxy Ketones. ChemBioChem, 2022, 23, .	2.6	8
2	Basin-scale biogeography of marine phytoplankton reflects cellular-scale optimization of metabolism and physiology. Science Advances, 2022, 8, eabl4930.	10.3	16
3	Engineering Saccharomyces cerevisiae for the production and secretion of Affibody molecules. Microbial Cell Factories, 2022, 21, 36.	4.0	10
4	Suppressors of amyloid-β toxicity improve recombinant protein production in yeast by reducing oxidative stress and tuning cellular metabolism. Metabolic Engineering, 2022, 72, 311-324.	7.0	9
5	Deep learning-based kcat prediction enables improved enzyme-constrained model reconstruction. Nature Catalysis, 2022, 5, 662-672.	34.4	98
6	Performance of Regression Models as a Function of Experiment Noise. Bioinformatics and Biology Insights, 2021, 15, 117793222110203.	2.0	9
7	Adaptation of a Microfluidic qPCR System for Enzyme Kinetic Studies. ACS Omega, 2021, 6, 1985-1990.	3.5	6
8	Expanding functional protein sequence spaces using generative adversarial networks. Nature Machine Intelligence, 2021, 3, 324-333.	16.0	165
9	CAZyme prediction in ascomycetous yeast genomes guides discovery of novel xylanolytic species with diverse capacities for hemicellulose hydrolysis. Biotechnology for Biofuels, 2021, 14, 150.	6.2	10
10	The Yeast eIF2 Kinase Gcn2 Facilitates H ₂ O ₂ -Mediated Feedback Inhibition of Both Protein Synthesis and Endoplasmic Reticulum Oxidative Folding during Recombinant Protein Production. Applied and Environmental Microbiology, 2021, 87, e0030121.	3.1	8
11	Experimental and computational investigation of enzyme functional annotations uncovers misannotation in the EC 1.1.3.15 enzyme class. PLoS Computational Biology, 2021, 17, e1009446.	3.2	21
12	Deep learning allows genome-scale prediction of Michaelis constants from structural features. PLoS Biology, 2021, 19, e3001402.	5.6	44
13	Discovery of two novel oxidases using a highâ€ŧhroughput activity screen. ChemBioChem, 2021, , .	2.6	4
14	Different Routes of Protein Folding Contribute to Improved Protein Production in Saccharomyces cerevisiae. MBio, 2020, 11, .	4.1	12
15	Quantitative analysis of amino acid metabolism in liver cancer links glutamate excretion to nucleotide synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10294-10304.	7.1	45
16	A synthesis of bacterial and archaeal phenotypic trait data. Scientific Data, 2020, 7, 170.	5.3	59
17	Elimination of rNMPs from mitochondrial DNA has no effect on its stability. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14306-14313.	7.1	14
18	3Dâ€Printed Phenacrylate Decarboxylase Flow Reactors for the Chemoenzymatic Synthesis of 4â€Hydroxystilbene. Chemistry - A European Journal, 2019, 25, 15998-16001.	3.3	33

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#	Article	IF	CITATIONS
19	Machine Learning Applied to Predicting Microorganism Growth Temperatures and Enzyme Catalytic Optima. ACS Synthetic Biology, 2019, 8, 1411-1420.	3.8	100
20	Applications of Protein Engineering and Directed Evolution in Plant Research. Plant Physiology, 2019, 179, 907-917.	4.8	53
21	DNA polymerase η contributes to genome-wide lagging strand synthesis. Nucleic Acids Research, 2019, 47, 2425-2435.	14.5	17
22	Correlating enzyme annotations with a large set of microbial growth temperatures reveals metabolic adaptations to growth at diverse temperatures. BMC Microbiology, 2018, 18, 177.	3.3	53
23	Biochemical control systems for small molecule damage in plants. Plant Signaling and Behavior, 2018, 13, e1477906.	2.4	7
24	Metabolic Engineering of Photorespiration. Methods in Molecular Biology, 2017, 1653, 137-155.	0.9	5
25	Simultaneous Mapping and Quantitation of Ribonucleotides in Human Mitochondrial DNA. Journal of Visualized Experiments, 2017, , .	0.3	3
26	Ribonucleotides incorporated by the yeast mitochondrial DNA polymerase are not repaired. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12466-12471.	7.1	39
27	Nucleotide pools dictate the identity and frequency of ribonucleotide incorporation in mitochondrial DNA. PLoS Genetics, 2017, 13, e1006628.	3.5	55
28	Highlighting the Need for Systems-Level Experimental Characterization of Plant Metabolic Enzymes. Frontiers in Plant Science, 2016, 7, 1127.	3.6	2
29	The influence of alternative pathways of respiration that utilize branchedâ€chain amino acids following water shortage in <i>Arabidopsis</i> . Plant, Cell and Environment, 2016, 39, 1304-1319.	5.7	139
30	Adaptive mutations in sugar metabolism restore growth on glucose in a pyruvate decarboxylase negative yeast strain. Microbial Cell Factories, 2015, 14, 116.	4.0	19
31	Directed Evolution of Gloeobacter violaceus Rhodopsin Spectral Properties. Journal of Molecular Biology, 2015, 427, 205-220.	4.2	85
32	Plants Possess a Cyclic Mitochondrial Metabolic Pathway similar to the Mammalian Metabolic Repair Mechanism Involving Malate Dehydrogenase and I-2-Hydroxyglutarate Dehydrogenase. Plant and Cell Physiology, 2015, 56, 1820-1830.	3.1	35
33	ANT: Software for Generating and Evaluating Degenerate Codons for Natural and Expanded Genetic Codes. ACS Synthetic Biology, 2015, 4, 935-938.	3.8	10
34	GLYCOLATE OXIDASE3, a Glycolate Oxidase Homolog of Yeast l-Lactate Cytochrome <i>c</i> Oxidoreductase, Supports l-Lactate Oxidation in Roots of Arabidopsis. Plant Physiology, 2015, 169, 1042-1061.	4.8	41
35	2-Hydroxy Acids in Plant Metabolism. The Arabidopsis Book, 2015, 13, e0182.	0.5	69
36	Archaerhodopsin variants with enhanced voltage-sensitive fluorescence in mammalian and Caenorhabditis elegans neurons. Nature Communications, 2014, 5, 4894.	12.8	124

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37	Directed evolution of a far-red fluorescent rhodopsin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13034-13039.	7.1	84
38	Mitochondrial 2-hydroxyglutarate metabolism. Mitochondrion, 2014, 19, 275-281.	3.4	38
39	<scp>D</scp> â€2â€hydroxyglutarate metabolism is linked to photorespiration in the <i>shm1â€1</i> mutant. Plant Biology, 2013, 15, 776-784.	3.8	23
40	Transgenic Introduction of a Glycolate Oxidative Cycle into A. thaliana Chloroplasts Leads to Growth Improvement. Frontiers in Plant Science, 2012, 3, 38.	3.6	137
41	<scp>d</scp> â€Lactate dehydrogenase as a marker gene allows positive selection of transgenic plants. FEBS Letters, 2012, 586, 36-40.	2.8	26
42	Plant d-2-Hydroxyglutarate Dehydrogenase Participates in the Catabolism of Lysine Especially during Senescence. Journal of Biological Chemistry, 2011, 286, 11382-11390.	3.4	63
43	Two d-2-Hydroxy-acid Dehydrogenases in Arabidopsis thaliana with Catalytic Capacities to Participate in the Last Reactions of the Methylglyoxal and β-Oxidation Pathways. Journal of Biological Chemistry, 2009, 284, 25026-25037.	3.4	110
44	HAG2/MYB76 and HAG3/MYB29 exert a specific and coordinated control on the regulation of aliphatic glucosinolate biosynthesis in <i>Arabidopsis thaliana</i> . New Phytologist, 2008, 177, 627-642.	7.3	283
45	Effect of poly(ethylene glycol) on enzymatic hydrolysis and adsorption of cellulase enzymes to pretreated lignocellulose. Enzyme and Microbial Technology, 2007, 41, 186-195.	3.2	203