

# Michael Sauer

## List of Publications by Year in Descending Order

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**Version:** 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94  
papers

4,889  
citations

39  
h-index

69  
g-index

108  
ext. papers

5,631  
ext. citations

6.2  
avg, IF

5.68  
L-index

#	Paper	IF	Citations
94	Membrane transport as a target for metabolic engineering <b>2022</b> , 27-43		
93	Utilizing yeasts for the conversion of renewable feedstocks to sugar alcohols - a review. <i>Bioresource Technology</i> , <b>2021</b> , 346, 126296	11	2
92	Improvement of 3-Hydroxypropionic Acid Tolerance in <i>Klebsiella pneumoniae</i> by Novel Transporter YohJK.. <i>Bioresource Technology</i> , <b>2021</b> , 346, 126613	11	0
91	Microscale Perfusion-Based Cultivation for <i>Pichia pastoris</i> Clone Screening Enables Accelerated and Optimized Recombinant Protein Production Processes. <i>Biotechnology Journal</i> , <b>2021</b> , 16, e2000215	5.6	4
90	Sclerotia formed by citric acid producing strains of <i>Aspergillus niger</i> : Induction and morphological analysis. <i>Fungal Biology</i> , <b>2021</b> , 125, 485-494	2.8	3
89	Lactic acid bacteria: little helpers for many human tasks. <i>Essays in Biochemistry</i> , <b>2021</b> , 65, 163-171	7.6	3
88	The Plasma Membrane at the Cornerstone Between Flexibility and Adaptability: Implications for as a Cell Factory. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 715891	5.7	2
87	Efficient conversion of hemicellulose sugars from spent sulfite liquor into optically pure L-lactic acid by <i>Enterococcus mundtii</i> . <i>Bioresource Technology</i> , <b>2021</b> , 333, 125215	11	4
86	Downscaling screening cultures in a multifunctional bioreactor array-on-a-chip for speeding up optimization of yeast-based lactic acid bioproduction. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 2046-2057	4.9	4
85	Enzymes revolutionize the bioproduction of value-added compounds: From enzyme discovery to special applications. <i>Biotechnology Advances</i> , <b>2020</b> , 40, 107520	17.8	61
84	The fungal sexual revolution continues: discovery of sexual development in members of the genus <i>Aspergillus</i> and its consequences. <i>Fungal Biology and Biotechnology</i> , <b>2020</b> , 7, 17	7.5	1
83	Yeast Cell Factories <b>2020</b> , 319-337		
82	Identification of the citrate exporter Cex1 of <i>Yarrowia lipolytica</i> . <i>FEMS Yeast Research</i> , <b>2020</b> , 20,	3.1	2
81	The industrial yeast <i>Pichia pastoris</i> is converted from a heterotroph into an autotroph capable of growth on CO. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 210-216	44.5	87
80	Understanding How Microorganisms Respond to Acid pH Is Central to Their Control and Successful Exploitation. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 556140	5.7	19
79	Slow Growth and Increased Spontaneous Mutation Frequency in Respiratory Deficient Yeast Suppressed by a Dominant Mutation in. <i>G3: Genes, Genomes, Genetics</i> , <b>2020</b> , 10, 4637-4648	3.2	1
78	Golden Gate-based metabolic engineering strategy for wild-type strains of <i>Yarrowia lipolytica</i> . <i>FEMS Microbiology Letters</i> , <b>2019</b> , 366,	2.9	18

77	Spotlight on biodiversity of microbial cell factories for glycerol conversion. <i>Biotechnology Advances</i> , <b>2019</b> , 37, 107395	17.8	17
76	Microbial 2-butanol production with. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 262	7.8	19
75	Engineering of the citrate exporter protein enables high citric acid production in <i>Aspergillus niger</i> . <i>Metabolic Engineering</i> , <b>2019</b> , 52, 224-231	9.7	61
74	Microbial carbon dioxide fixation: new tricks for an old game. <i>FEMS Microbiology Letters</i> , <b>2018</b> , 365,	2.9	7
73	An efficient tool for metabolic pathway construction and gene integration for <i>Aspergillus niger</i> . <i>Bioresource Technology</i> , <b>2017</b> , 245, 1327-1333	11	66
72	The Efficient Clade: Lactic Acid Bacteria for Industrial Chemical Production. <i>Trends in Biotechnology</i> , <b>2017</b> , 35, 756-769	15.1	70
71	Impact of glutathione metabolism on zinc homeostasis in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , <b>2017</b> , 17,	3.1	6
70	GoldenPiCS: a Golden Gate-derived modular cloning system for applied synthetic biology in the yeast <i>Pichia pastoris</i> . <i>BMC Systems Biology</i> , <b>2017</b> , 11, 123	3.5	59
69	3-Hydroxypropionaldehyde production from crude glycerol by with enhanced glycerol uptake. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 295	7.8	17
68	Effect of carbon pulsing on the redox household of <i>Lactobacillus diolivorans</i> in order to enhance 1,3-propanediol production. <i>New Biotechnology</i> , <b>2017</b> , 34, 32-39	6.4	19
67	Microbial organic acid production as carbon dioxide sink. <i>FEMS Microbiology Letters</i> , <b>2017</b> , 364,	2.9	17
66	Metabolic Flexibility of Growing on Glycerol. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 49	5.7	44
65	Industrial production of acetone and butanol by fermentation-100 years later. <i>FEMS Microbiology Letters</i> , <b>2016</b> , 363,	2.9	44
64	Characterizing MttA as a mitochondrial cis-aconitic acid transporter by metabolic engineering. <i>Metabolic Engineering</i> , <b>2016</b> , 35, 95-104	9.7	33
63	Synthetic Biology Assisting Metabolic Pathway Engineering <b>2016</b> , 255-280		2
62	Non-genetic impact factors on chronological lifespan and stress resistance of baker's yeast. <i>Microbial Cell</i> , <b>2016</b> , 3, 232-235	3.9	4
61	Itaconic Acid – An Emerging Building Block <b>2016</b> , 453-472		5
60	Industrial Microorganisms: <i>Pichia pastoris</i> <b>2016</b> , 687-714		4

59	Industrial Microorganisms: <i>Saccharomyces cerevisiae</i> and other Yeasts <b>2016</b> , 673-686		0
58	Complete genome sequence and transcriptome regulation of the pentose utilizing yeast <i>Sugiyamaella lignohabitans</i> . <i>FEMS Yeast Research</i> , <b>2016</b> , 16,	3.1	7
57	LC-MS/MS-based analysis of coenzyme A and short-chain acyl-coenzyme A thioesters. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 6681-8	4.4	27
56	Enhanced glutathione production by evolutionary engineering of <i>Saccharomyces cerevisiae</i> strains. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 1719-26	5.6	25
55	Organic acids from lignocellulose: <i>Candida lignohabitans</i> as a new microbial cell factory. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2015</b> , 42, 681-91	4.2	26
54	Metabolomics sampling of <i>Pichia pastoris</i> revisited: rapid filtration prevents metabolite loss during quenching. <i>FEMS Yeast Research</i> , <b>2015</b> , 15,	3.1	12
53	Systems-level organization of yeast methylotrophic lifestyle. <i>BMC Biology</i> , <b>2015</b> , 13, 80	7.3	78
52	Heading for an economic industrial upgrading of crude glycerol from biodiesel production to 1,3-propanediol by <i>Lactobacillus diolivorans</i> . <i>Bioresource Technology</i> , <b>2014</b> , 152, 499-504	11	62
51	Old obstacles and new horizons for microbial chemical production. <i>Current Opinion in Biotechnology</i> , <b>2014</b> , 30, 101-6	11.4	22
50	Biorefineries Concepts for Sustainability <b>2014</b> , 1-27		1
49	Production of Metabolites and Heterologous Proteins <b>2014</b> , 299-326		0
48	Production of Metabolites and Heterologous Proteins <b>2014</b> , 299-326		1
47	Measurement uncertainty of isotopologue fractions in fluxomics determined via mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 5133-46	4.4	9
46	Genetic engineering of <i>Lactobacillus diolivorans</i> . <i>FEMS Microbiology Letters</i> , <b>2013</b> , 344, 152-8	2.9	15
45	Microbial production of organic acids for use in food <b>2013</b> , 288-320		
44	Six novel constitutive promoters for metabolic engineering of <i>Aspergillus niger</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 259-67	5.7	50
43	Targeting enzymes to the right compartment: metabolic engineering for itaconic acid production by <i>Aspergillus niger</i> . <i>Metabolic Engineering</i> , <b>2013</b> , 19, 26-32	9.7	85
42	Biochemistry of microbial itaconic acid production. <i>Frontiers in Microbiology</i> , <b>2013</b> , 4, 23	5.7	113

41	Pichia pastoris: protein production host and model organism for biomedical research. <i>Future Microbiology</i> , <b>2013</b> , 8, 191-208	2.9	165
40	Interlaboratory comparison for quantitative primary metabolite profiling in Pichia pastoris. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 5159-69	4.4	20
39	Construction of microbial cell factories for industrial bioprocesses. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2012</b> , 87, 445-450	3.5	28
38	U13C cell extract of Pichia pastoris--a powerful tool for evaluation of sample preparation in metabolomics. <i>Journal of Separation Science</i> , <b>2012</b> , 35, 3091-105	3.4	54
37	1,3-Propanediol production from glycerol with Lactobacillus diolivorans. <i>Bioresource Technology</i> , <b>2012</b> , 119, 133-40	11	99
36	Mass spectrometry based analysis of nucleotides, nucleosides, and nucleobases--application to feed supplements. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 799-808	4.4	27
35	Recombinant protein production in yeasts. <i>Methods in Molecular Biology</i> , <b>2012</b> , 824, 329-58	1.4	198
34	Production of recombinant proteins and metabolites in yeasts: when are these systems better than bacterial production systems?. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 89, 939-48	5.7	77
33	Influence of growth temperature on the production of antibody Fab fragments in different microbes: a host comparative analysis. <i>Biotechnology Progress</i> , <b>2011</b> , 27, 38-46	2.8	37
32	Reverse engineering of protein secretion by uncoupling of cell cycle phases from growth. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 2403-12	4.9	24
31	Genome sequence of the ruminal bacterium Megasphaera elsdenii. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 5578-9	3.5	36
30	16 years research on lactic acid production with yeast - ready for the market?. <i>Biotechnology and Genetic Engineering Reviews</i> , <b>2010</b> , 27, 229-56	4.1	86
29	The response to unfolded protein is involved in osmotolerance of Pichia pastoris. <i>BMC Genomics</i> , <b>2010</b> , 11, 207	4.5	65
28	Effect of HXT1 and HXT7 hexose transporter overexpression on wild-type and lactic acid producing Saccharomyces cerevisiae cells. <i>Microbial Cell Factories</i> , <b>2010</b> , 9, 15	6.4	22
27	Genome-scale analysis of library sorting (GALibSo): Isolation of secretion enhancing factors for recombinant protein production in Pichia pastoris. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 105, 543-55	4.9	29
26	Identification and characterisation of novel Pichia pastoris promoters for heterologous protein production. <i>Journal of Biotechnology</i> , <b>2010</b> , 150, 519-29	3.7	95
25	Directed gene copy number amplification in Pichia pastoris by vector integration into the ribosomal DNA locus. <i>FEMS Yeast Research</i> , <b>2009</b> , 9, 1260-70	3.1	88
24	The effect of temperature on the proteome of recombinant Pichia pastoris. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 1380-92	5.6	154

23	Genome, secretome and glucose transport highlight unique features of the protein production host <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , <b>2009</b> , 8, 29	6.4	165
22	Novel insights into the unfolded protein response using <i>Pichia pastoris</i> specific DNA microarrays. <i>BMC Genomics</i> , <b>2008</b> , 9, 390	4.5	90
21	Microbial production of organic acids: expanding the markets. <i>Trends in Biotechnology</i> , <b>2008</b> , 26, 100-8	15.1	599
20	Overexpression of the riboflavin biosynthetic pathway in <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , <b>2008</b> , 7, 23	6.4	68
19	Microbial production of 1,3-propanediol. <i>Recent Patents on Biotechnology</i> , <b>2008</b> , 2, 191-7	2.2	30
18	Investigating the multibudded and binucleate phenotype of the yeast <i>Zygosaccharomyces bailii</i> growing on minimal medium. <i>FEMS Yeast Research</i> , <b>2008</b> , 8, 906-15	3.1	6
17	Transcriptomics-based identification of novel factors enhancing heterologous protein secretion in yeasts. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 6499-507	4.8	122
16	Monitoring of transcriptional regulation in <i>Pichia pastoris</i> under protein production conditions. <i>BMC Genomics</i> , <b>2007</b> , 8, 179	4.5	96
15	Biosynthesis of vitamin C by yeast leads to increased stress resistance. <i>PLoS ONE</i> , <b>2007</b> , 2, e1092	3.7	69
14	Improvement of lactic acid production in <i>Saccharomyces cerevisiae</i> by cell sorting for high intracellular pH. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 5492-9	4.8	290
13	Analysis of bottlenecks in <i>Rhizopus oryzae</i> lipase production in <i>Pichia pastoris</i> using the nitrogen source-regulated formaldehyde dehydrogenase promoter (PFLD1). <i>Microbial Cell Factories</i> , <b>2006</b> , 5, P53	6.4	
12	Disruption of the GAS1 gene of <i>Pichia pastoris</i> confers a supersecretory phenotype for <i>Rhizopus oryzae</i> lipase, but not for human trypsinogen. <i>Microbial Cell Factories</i> , <b>2006</b> , 5, P69	6.4	
11	Lactate production yield from engineered yeasts is dependent from the host background, the lactate dehydrogenase source and the lactate export. <i>Microbial Cell Factories</i> , <b>2006</b> , 5, 4	6.4	65
10	Cloning, disruption and protein secretory phenotype of the GAS1 homologue of <i>Pichia pastoris</i> . <i>FEMS Microbiology Letters</i> , <b>2006</b> , 264, 40-7	2.9	32
9	Recombinant protein production in yeasts. <i>Molecular Biotechnology</i> , <b>2005</b> , 31, 245-59	3	134
8	Intracellular pH distribution in <i>Saccharomyces cerevisiae</i> cell populations, analyzed by flow cytometry. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 1515-21	4.8	83
7	The yeast <i>Zygosaccharomyces bailii</i> : a new host for heterologous protein production, secretion and for metabolic engineering applications. <i>FEMS Yeast Research</i> , <b>2004</b> , 4, 493-504	3.1	45
6	Production of L-ascorbic acid by metabolically engineered <i>Saccharomyces cerevisiae</i> and <i>Zygosaccharomyces bailii</i> . <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 6086-91	4.8	64

5	Differential gene expression in recombinant <i>Pichia pastoris</i> analysed by heterologous DNA microarray hybridisation. <i>Microbial Cell Factories</i> , <b>2004</b> , 3, 17	6.4	53
4	Stress in recombinant protein producing yeasts. <i>Journal of Biotechnology</i> , <b>2004</b> , 113, 121-35	3.7	189
3	Growth characteristics of <i>Escherichia coli</i> HB101[pGEc47] on defined medium. <i>Biotechnology and Bioengineering</i> , <b>1998</b> , 58, 92-100	4.9	25
2	Biotransformation of octane by <i>E. coli</i> HB101[pGEc47] on defined medium: Octanoate production and product inhibition <b>1998</b> , 58, 356-365		21
1	A synthetic Calvin cycle enables autotrophic growth in yeast		2