Diethard Mattanovich

List of Publications by Year
in descending order

185 papers	11,965 citations	17440 63 h-index	30922 102 g-index
192 all docs	192 docs citations	192 times ranked	9412 citing authors

#	Article	IF	Citations
1	Microbial production of organic acids: expanding the markets. Trends in Biotechnology, 2008, 26, 100-108.	9.3	680
2	Adaptive laboratory evolution â€“ principles and applications for biotechnology. Microbial Cell Factories, 2013, 12, 64.	4.0	566
3	Improvement of Lactic Acid Production in <i>Saccharomyces cerevisiae</i> by Cell Sorting for High Intracellular pH. Applied and Environmental Microbiology, 2006, 72, 5492-5499.	3.1	351
4	Protein folding and conformational stress in microbial cells producing recombinant proteins: a host comparative overview. Microbial Cell Factories, 2008, 7, 11.	4.0	269
5	Recombinant Protein Production in Yeasts. Methods in Molecular Biology, 2012, 824, 329-358.	0.9	245
6	Effects of gene dosage, promoters, and substrates on unfolded protein stress of recombinantPichia pastoris. Biotechnology and Bioengineering, 2004, 85, 367-375.	3.3	243
7	Methylation of ribosomal RNA by NSUN5 is a conserved mechanism modulating organismal lifespan. Nature Communications, 2015, 6, 6158.	12.8	231
8	Stress in recombinant protein producing yeasts. Journal of Biotechnology, 2004, 113, 121-135.	3.8	209
9	The industrial yeast Pichia pastoris is converted from a heterotroph into an autotroph capable of growth on CO2. Nature Biotechnology, 2020, 38, 210-216.	17.5	200
10	<i>Pichia pastoris</i>: protein production host and model organism for biomedical research. Future Microbiology, 2013, 8, 191-208.	2.0	198
11	Efficient transformation ofAgrobacteriumspp. by eletroporation. Nucleic Acids Research, 1989, 17, 6747-6747.	14.5	194
12	Genome, secretome and glucose transport highlight unique features of the protein production host Pichia pastoris. Microbial Cell Factories, 2009, 8, 29.	4.0	189
13	Engineering ofPichia pastoris for improved production of antibody fragments. Biotechnology and Bioengineering, 2006, 94, 353-361.	3.3	177
14	The secretory pathway: exploring yeast diversity. FEMS Microbiology Reviews, 2013, 37, 872-914.	8.6	176
15	The Effect of Temperature on the Proteome of Recombinant <i>Pichia pastoris</i>. Journal of Proteome Research, 2009, 8, 1380-1392.	3.7	170
16	Effect of Increased Expression of Protein Disulfide Isomerase and Heavy Chain Binding Protein on Antibody Secretion in a Recombinant CHO Cell Line. Biotechnology Progress, 2008, 21, 106-111.	2.6	164
17	Metabolic engineering of Pichia pastoris. Metabolic Engineering, 2018, 50, 2-15.	7.0	163
18	Recombinant Protein Production in Yeasts. Molecular Biotechnology, 2005, 31, 245-260.	2.4	152

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19	Transcriptomics-Based Identification of Novel Factors Enhancing Heterologous Protein Secretion in Yeasts. Applied and Environmental Microbiology, 2007, 73, 6499-6507.	3.1	148
20	Regeneration of transgenic plants of Prunus armeniaca containing the coat protein gene of Plum Pox Virus. Plant Cell Reports, 1992, 11, 25-29.	5.6	138
21	Biochemistry of microbial itaconic acid production. Frontiers in Microbiology, 2013, 4, 23.	3.5	138
22	A multi-level study of recombinant Pichia pastoris in different oxygen conditions. BMC Systems Biology, 2010, 4, 141.	3.0	136
23	Quo vadis? The challenges of recombinant protein folding and secretion in Pichia pastoris. Applied Microbiology and Biotechnology, 2015, 99, 2925-2938.	3.6	134
24	Model based engineering of Pichia pastoris central metabolism enhances recombinant protein production. Metabolic Engineering, 2014, 24, 129-138.	7.0	130
25	Applications of cell sorting in biotechnology. Microbial Cell Factories, 2006, 5, 12.	4.0	125
26	Systems-level organization of yeast methylotrophic lifestyle. BMC Biology, 2015, 13, 80.	3.8	118
27	Unconventional microbial systems for the cost-efficient production of high-quality protein therapeutics. Biotechnology Advances, 2013, 31, 140-153.	11.7	116
28	The high efficiency, human B cell immortalizing heteromyeloma CB-F7. Journal of Immunological Methods, 1988, 106, 257-265.	1.4	115
29	1,3-Propanediol production from glycerol with Lactobacillus diolivorans. Bioresource Technology, 2012, 119, 133-140.	9.6	115
30	16 years research on lactic acid production with yeast â€“ ready for the market?. Biotechnology and Genetic Engineering Reviews, 2010, 27, 229-256.	6.2	114
31	Induction without methanol: novel regulated promoters enable high-level expression in Pichia pastoris. Microbial Cell Factories, 2013, 12, 5.	4.0	114
32	Hypoxic fedâ€batch cultivation of <i>Pichia pastoris</i> increases specific and volumetric productivity of recombinant proteins. Biotechnology and Bioengineering, 2008, 100, 177-183.	3.3	113
33	Macromolecular and elemental composition analysis and extracellular metabolite balances of Pichia pastoris growing at different oxygen levels. Microbial Cell Factories, 2009, 8, 65.	4.0	112
34	Genomeâ€scale metabolic model of methylotrophic yeast <i>Pichia pastoris</i> and its use for <i>in silico</i> analysis of heterologous protein production. Biotechnology Journal, 2010, 5, 705-715.	3.5	111
35	Identification and characterisation of novel Pichia pastoris promoters for heterologous protein production. Journal of Biotechnology, 2010, 150, 519-529.	3.8	110
36	Monitoring of transcriptional regulation in Pichia pastoris under protein production conditions. BMC Genomics, 2007, 8, 179.	2.8	105

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37	GoldenPiCS: a Golden Gate-derived modular cloning system for applied synthetic biology in the yeast Pichia pastoris. BMC Systems Biology, 2017, 11, 123.	3.0	105
38	Directed gene copy number amplification in<i>Pichia pastoris</i>by vector integration into the ribosomal DNA locus. FEMS Yeast Research, 2009, 9, 1260-1270.	2.3	104
39	Novel insights into the unfolded protein response using Pichia pastoris specific DNA microarrays. BMC Genomics, 2008, 9, 390.	2.8	103
40	Engineering of the citrate exporter protein enables high citric acid production in Aspergillus niger. Metabolic Engineering, 2019, 52, 224-231.	7.0	99
41	Targeting enzymes to the right compartment: Metabolic engineering for itaconic acid production by Aspergillus niger. Metabolic Engineering, 2013, 19, 26-32.	7.0	98
42	Versatile modeling and optimization of fed batch processes for the production of secreted heterologous proteins with Pichia pastoris. Microbial Cell Factories, 2006, 5, 37.	4.0	97
43	Assessing viability and cell-associated product of recombinant protein producing Pichia pastoris with flow cytometry. Journal of Biotechnology, 2003, 102, 281-290.	3.8	96
44	Intracellular pH Distribution in Saccharomyces cerevisiae Cell Populations, Analyzed by Flow Cytometry. Applied and Environmental Microbiology, 2005, 71, 1515-1521.	3.1	94
45	An efficient tool for metabolic pathway construction and gene integration for Aspergillus niger. Bioresource Technology, 2017, 245, 1327-1333.	9.6	93
46	A Gene Optimization Strategy that Enhances Production of Fully Functional P-Glycoprotein in Pichia pastoris. PLoS ONE, 2011, 6, e22577.	2.5	92
47	Yeast biotechnology: teaching the old dog new tricks. Microbial Cell Factories, 2014, 13, 34.	4.0	91
48	Systems biotechnology for protein production in Pichia pastoris. FEMS Yeast Research, 2017, 17, .	2.3	91
49	Production of recombinant proteins and metabolites in yeasts. Applied Microbiology and Biotechnology, 2011, 89, 939-948.	3.6	90
50	In <i>Pichia pastoris</i>, growth rate regulates protein synthesis and secretion, mating and stress response. Biotechnology Journal, 2014, 9, 511-525.	3.5	86
51	Divergent Genetic Control of Protein Solubility and Conformational Quality in Escherichia coli. Journal of Molecular Biology, 2007, 374, 195-205.	4.2	85
52	Lactate production yield from engineered yeasts is dependent from the host background, the lactate dehydrogenase source and the lactate export. Microbial Cell Factories, 2006, 5, 4.	4.0	84
53	Overexpression of the riboflavin biosynthetic pathway in Pichia pastoris. Microbial Cell Factories, 2008, 7, 23.	4.0	81
54	Oxidative protein folding and unfolded protein response elicit differing redox regulation in endoplasmic reticulum and cytosol of yeast. Free Radical Biology and Medicine, 2012, 52, 2000-2012.	2.9	81

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55	Engineering of Protein Folding and Secretionâ€"Strategies to Overcome Bottlenecks for Efficient Production of Recombinant Proteins. Antioxidants and Redox Signaling, 2014, 21, 414-437.	5.4	78
56	Biosynthesis of Vitamin C by Yeast Leads to Increased Stress Resistance. PLoS ONE, 2007, 2, e1092.	2.5	78
57	Pichia pastoris regulates its gene-specific response to different carbon sources at the transcriptional, rather than the translational, level. BMC Genomics, 2015, 16, 167.	2.8	77
58	The response to unfolded protein is involved in osmotolerance of Pichia pastoris. BMC Genomics, 2010, 11, 207.	2.8	74
59	Heading for an economic industrial upgrading of crude glycerol from biodiesel production to 1,3-propanediol by Lactobacillus diolivorans. Bioresource Technology, 2014, 152, 499-504.	9.6	73
60	Coat protein mediated resistance to Plum Pox Virus in Nicotiana clevelandii and N. benthamiana. Plant Cell Reports, 1992, 11, 30-33.	5.6	69
61	Yeast systems biotechnology for the production of heterologous proteins. FEMS Yeast Research, 2009, 9, 335-348.	2.3	69
62	Curation of the genome annotation of<i>Pichia pastoris</i>(<i>Komagataella phaffii</i>) CBS7435 from gene level to protein function. FEMS Yeast Research, 2016, 16, fow051.	2.3	69
63	Antibody production with yeasts and filamentous fungi: on the road to large scale?. Biotechnology Letters, 2007, 29, 201-212.	2.2	68
64	<scp>U</scp>¹³<scp>C</scp> cell extract of <scp>P</scp>ichia pastoris â€" a powerful tool for evaluation of sample preparation in metabolomics. Journal of Separation Science, 2012, 35, 3091-3105.	2.5	66
65	Systems metabolic engineering, industrial biotechnology and microbial cell factories. Microbial Cell Factories, 2012, 11, 156.	4.0	65
66	Six novel constitutive promoters for metabolic engineering of Aspergillus niger. Applied Microbiology and Biotechnology, 2013, 97, 259-267.	3.6	60
67	Differential gene expression in recombinant Pichia pastoris analysed by heterologous DNA microarray hybridisation. Microbial Cell Factories, 2004, 3, 17.	4.0	55
68	Open access to sequence: Browsing the Pichia pastoris genome. Microbial Cell Factories, 2009, 8, 53.	4.0	55
69	<i>Pichia pastoris</i> secretes recombinant proteins less efficiently than Chinese hamster ovary cells but allows higher spaceâ€time yields for less complex proteins. Biotechnology Journal, 2014, 9, 526-537.	3.5	55
70	Increased dosage of AOX1 promoter-regulated expression cassettes leads to transcription attenuation of the methanol metabolism in Pichia pastoris. Scientific Reports, 2017, 7, 44302.	3.3	55
71	Increasing pentose phosphate pathway flux enhances recombinant protein production in Pichia pastoris. Applied Microbiology and Biotechnology, 2016, 100, 5955-5963.	3.6	54
72	Pichia pastoris Exhibits High Viability and a Low Maintenance Energy Requirement at Near-Zero Specific Growth Rates. Applied and Environmental Microbiology, 2016, 82, 4570-4583.	3.1	52

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73	Protein trafficking, ergosterol biosynthesis and membrane physics impact recombinant protein secretion in Pichia pastoris. Microbial Cell Factories, 2011, 10, 93.	4.0	51
74	Transcriptional engineering of the glyceraldehydeâ€3â€phosphate dehydrogenase promoter for improved heterologous protein production in <i>Pichia pastoris</i>. Biotechnology and Bioengineering, 2017, 114, 2319-2327.	3.3	51
75	Metabolomics integrated elementary flux mode analysis in large metabolic networks. Scientific Reports, 2015, 5, 8930.	3.3	49
76	Monitoring intracellular redox conditions in the endoplasmic reticulum of living yeasts. FEMS Microbiology Letters, 2010, 306, 61-66.	1.8	47
77	Engineering of bottlenecks in Rhizopus oryzae lipase production in Pichia pastoris using the nitrogen source-regulated FLD1 promoter. New Biotechnology, 2009, 25, 396-403.	4.4	46
78	Influence of growth temperature on the production of antibody Fab fragments in different microbes: A host comparative analysis. Biotechnology Progress, 2011, 27, 38-46.	2.6	46
79	CRISPR/Cas9-Mediated Homology-Directed Genome Editing in Pichia pastoris. Methods in Molecular Biology, 2019, 1923, 211-225.	0.9	45
80	Genome Sequence of the Ruminal Bacterium Megasphaera elsdenii. Journal of Bacteriology, 2011, 193, 5578-5579.	2.2	44
81	Characterizing MttA as a mitochondrial cis-aconitic acid transporter by metabolic engineering. Metabolic Engineering, 2016, 35, 95-104.	7.0	42
82	High level expression of a promising anti-idiotypic antibody fragment vaccine against HIV-1 in Pichia pastoris. Journal of Biotechnology, 2007, 128, 735-746.	3.8	41
83	The impact of oxygen on the transcriptome of recombinant S. cerevisiae and P. pastoris - a comparative analysis. BMC Genomics, 2011, 12, 218.	2.8	40
84	A yeast for all seasons â€“ Is Pichia pastoris a suitable chassis organism for future bioproduction?. FEMS Microbiology Letters, 2018, 365, .	1.8	40
85	Repressible promoters â€“ A novel tool to generate conditional mutants in Pichia pastoris. Microbial Cell Factories, 2013, 12, 6.	4.0	39
86	Modeling and measuring intracellular fluxes of secreted recombinant protein in Pichia pastoris with a novel 34S labeling procedure. Microbial Cell Factories, 2011, 10, 47.	4.0	37
87	Disruption of genes involved in CORVET complex leads to enhanced secretion of heterologous carboxylesterase only in protease deficient <i>Pichia pastoris</i>. Biotechnology Journal, 2017, 12, 1600584.	3.5	37
88	A single Gal4-like transcription factor activates the Crabtree effect in Komagataella phaffii. Nature Communications, 2018, 9, 4911.	12.8	36
89	Cloning, disruption and protein secretory phenotype of theGAS1homologue ofPichia pastoris. FEMS Microbiology Letters, 2006, 264, 40-47.	1.8	35
90	Methanol regulated yeast promoters: production vehicles and toolbox for synthetic biology. Microbial Cell Factories, 2015, 14, 196.	4.0	35

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91	Gas Chromatography-Quadrupole Time-of-Flight Mass Spectrometry-Based Determination of Isotopologue and Tandem Mass Isotopomer Fractions of Primary Metabolites for ¹³C-Metabolic Flux Analysis. Analytical Chemistry, 2015, 87, 11792-11802.	6.5	35
92	Genomeâ€scale analysis of library sorting (GALibSo): Isolation of secretion enhancing factors for recombinant protein production in <i>Pichia pastoris</i>. Biotechnology and Bioengineering, 2010, 105, 543-555.	3.3	34
93	Accurate quantification of the redox-sensitive GSH/GSSG ratios in the yeast Pichia pastoris by HILICâ€“MS/MS. Analytical and Bioanalytical Chemistry, 2013, 405, 2031-2039.	3.7	34
94	The lipidome and proteome of microsomes from the methylotrophic yeast Pichia pastoris. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 215-226.	2.4	34
95	Microbial Production of 1,3-Propanediol. Recent Patents on Biotechnology, 2008, 2, 191-197.	0.8	33
96	Intracellular interactome of secreted antibody Fab fragment in Pichia pastoris reveals its routes of secretion and degradation. Applied Microbiology and Biotechnology, 2012, 93, 2503-2512.	3.6	33
97	Pichia pastoris Aft1 - a novel transcription factor, enhancing recombinant protein secretion. Microbial Cell Factories, 2014, 13, 120.	4.0	33
98	Organic acids from lignocellulose: <i>Candida lignohabitans</i> as a new microbial cell factory. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 681-691.	3.0	33
99	The vitaminâ€sensitive promoter P_{<i>THI11</i>} enables preâ€defined autonomous induction of recombinant protein production in <i>Pichia pastoris</i>. Biotechnology and Bioengineering, 2016, 113, 2633-2643.	3.3	33
100	Superior protein titers in half the fermentation time: Promoter and process engineering for the glucoseâ€regulated <i>GTH1</i> promoter of <i>Pichia pastoris</i>. Biotechnology and Bioengineering, 2018, 115, 2479-2488.	3.3	33
101	Engineering of <i>alcohol dehydrogenase 2</i> hybridâ€promoter architectures in <i>Pichia pastoris</i> to enhance recombinant protein expression on ethanol. Biotechnology and Bioengineering, 2019, 116, 2674-2686.	3.3	33
102	Mass spectrometry based analysis of nucleotides, nucleosides, and nucleobasesâ€”application to feed supplements. Analytical and Bioanalytical Chemistry, 2012, 404, 799-808.	3.7	32
103	Identification and deletion of the major secreted protein of Pichia pastoris. Applied Microbiology and Biotechnology, 2013, 97, 1241-1249.	3.6	32
104	Functional inclusion bodies produced in the yeast Pichia pastoris. Microbial Cell Factories, 2016, 15, 166.	4.0	32
105	Construction of microbial cell factories for industrial bioprocesses. Journal of Chemical Technology and Biotechnology, 2012, 87, 445-450.	3.2	31
106	Enhanced glutathione production by evolutionary engineering of <i>Saccharomyces cerevisiae</i> strains. Biotechnology Journal, 2015, 10, 1719-1726.	3.5	31
107	Identification of microRNAs specific for high producer CHO cell lines using steady-state cultivation. Applied Microbiology and Biotechnology, 2014, 98, 7535-7548.	3.6	29
108	Detection and Elimination of Cellular Bottlenecks in Protein-Producing Yeasts. Methods in Molecular Biology, 2019, 1923, 75-95.	0.9	29

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109	The metabolic growth limitations of petite cells lacking the mitochondrial genome. Nature Metabolism, 2021, 3, 1521-1535.	11.9	29
110	Implications of evolutionary engineering for growth and recombinant protein production in methanol-based growth media in the yeast Pichia pastoris. Microbial Cell Factories, 2017, 16, 49.	4.0	28
111	Microbial organic acid production as carbon dioxide sink. FEMS Microbiology Letters, 2017, 364, .	1.8	28
112	Engineering of biotin-prototrophy in Pichia pastoris for robust production processes. Metabolic Engineering, 2010, 12, 573-580.	7.0	27
113	Overexpression of the transcription factor Yap1 modifies intracellular redox conditions and enhances recombinant protein secretion. Microbial Cell, 2014, 1, 376-386.	3.2	27
114	Microbial protein cell factories fight back?. Trends in Biotechnology, 2022, 40, 576-590.	9.3	27
115	Reverse engineering of protein secretion by uncoupling of cell cycle phases from growth. Biotechnology and Bioengineering, 2011, 108, 2403-2412.	3.3	26
116	Bacterial expression and refolding of human trypsinogen. Journal of Biotechnology, 2004, 109, 3-11.	3.8	25
117	Old obstacles and new horizons for microbial chemical production. Current Opinion in Biotechnology, 2014, 30, 101-106.	6.6	25
118	The impact of ERAD on recombinant protein secretion in Pichia pastoris (syn Komagataella spp.). Microbiology (United Kingdom), 2018, 164, 453-463.	1.8	25
119	Degradation of carbondisulphide by a Thiobacillus isolate. Applied Microbiology and Biotechnology, 1993, 38, 820-823.	3.6	24
120	Disruption of vacuolar protein sorting components of the HOPS complex leads to enhanced secretion of recombinant proteins in Pichia pastoris. Microbial Cell Factories, 2019, 18, 119.	4.0	24
121	Interlaboratory comparison for quantitative primary metabolite profiling in Pichia pastoris. Analytical and Bioanalytical Chemistry, 2013, 405, 5159-5169.	3.7	23
122	Recombinant Fab expression and secretion in Escherichia coli continuous culture at medium cell densities: Influence of temperature. Process Biochemistry, 2012, 47, 446-452.	3.7	21
123	Adaptive laboratory evolution and reverse engineering enhances autotrophic growth in Pichia pastoris. Metabolic Engineering, 2022, 69, 112-121.	7.0	21
124	Multistep processing of the secretion leader of the extracellular protein Epx1 in Pichia pastoris and implications for protein localization. Microbiology (United Kingdom), 2015, 161, 1356-1368.	1.8	20
125	Creation of Stable Heterothallic Strains of <i>Komagataella phaffii</i> Enables Dissection of Mating Gene Regulation. Molecular and Cellular Biology, 2018, 38, .	2.3	20
126	What makes <i>Komagataella phaffii</i> non-conventional?. FEMS Yeast Research, 2021, 21, .	2.3	20

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127	Sample preparation workflow for the liquid chromatography tandem mass spectrometry based analysis of nicotinamide adenine dinucleotide phosphate cofactors in yeast^{â€}. Journal of Separation Science, 2014, 37, 2185-2191.	2.5	19
128	Characterization of methanol utilization negative <i>Pichia pastoris</i> for secreted protein production: New cultivation strategies for current and future applications. Biotechnology and Bioengineering, 2020, 117, 1394-1405.	3.3	19
129	Microbe Profile: Komagataella phaffii: a methanol devouring biotech yeast formerly known as Pichia pastoris. Microbiology (United Kingdom), 2020, 166, 614-616.	1.8	19
130	Engineered Deregulation of Expression in Yeast with Designed Hybridâ€Promoter Architectures in Coordination with Discovered Master Regulator Transcription Factor. Advanced Biology, 2020, 4, e1900172.	3.0	18
131	Optimization of recombinant protein expression level inEscherichia coli by flow cytometry and cell sorting. Biotechnology and Bioengineering, 2002, 80, 93-99.	3.3	17
132	Title is missing!. Microbial Cell Factories, 2006, 5, P61.	4.0	17
133	From rumen to industry. Microbial Cell Factories, 2012, 11, 121.	4.0	17
134	Genetic engineering of<i>Lactobacillus diolivorans</i>. FEMS Microbiology Letters, 2013, 344, 152-158.	1.8	17
135	Biomarkers allow detection of nutrient limitations and respective supplementation for elimination in Pichia pastoris fed-batch cultures. Microbial Cell Factories, 2017, 16, 117.	4.0	17
136	Engineered gene forEscherichia colialkaline phosphatase for the construction of translational fusions. Nucleic Acids Research, 1990, 18, 1069-1069.	14.5	16
137	A subcellular proteome atlas of the yeast<i>Komagataella phaffii</i>. FEMS Yeast Research, 2020, 20, .	2.3	16
138	Established tools and emerging trends for the production of recombinant proteins and metabolites in <i>Pichia pastoris</i>. Essays in Biochemistry, 2021, 65, 293-307.	4.7	16
139	Amino-acid sequence comparison of nepovirus coat proteins. Virus Genes, 1992, 6, 197-202.	1.6	15
140	Rational design of an improved induction scheme for recombinantEscherichia coli. , 1998, 58, 296-298.		15
141	Flow Cytometric Analysis of Metabolic Stress Effects Due to Recombinant Plasmids and Proteins in Escherichia coli Production Strains. Metabolic Engineering, 1999, 1, 270-274.	7.0	15
142	The secretome of <i>Pichia pastoris</i> in fedâ€batch cultivations is largely independent of the carbon source but changes quantitatively over cultivation time. Microbial Biotechnology, 2020, 13, 479-494.	4.2	15
143	Recombinant Expression of Alliin Lyase from Garlic (Allium sativum) in Bacteria and Yeasts. Planta Medica, 1998, 64, 387-388.	1.3	14
144	Metabolomics sampling ofPichia pastorisrevisited: rapid filtration prevents metabolite loss during quenching. FEMS Yeast Research, 2015, 15, fov049.	2.3	14

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145	In vivo synthesized ³⁴S enriched amino acid standards for species specific isotope dilution of proteins. Journal of Analytical Atomic Spectrometry, 2016, 31, 1830-1835.	3.0	14
146	Beyond alcohol oxidase: the methylotrophic yeast <i>Komagataella phaffii</i> utilizes methanol also with its native alcohol dehydrogenase Adh2. FEMS Yeast Research, 2021, 21, .	2.3	14
147	Optimization of Recombinant Gene Expression in Escherichia colia. Annals of the New York Academy of Sciences, 1996, 782, 182-190.	3.8	13
148	Integrative omics analysis. A study based on Plasmodium falciparum mRNA and protein data. BMC Systems Biology, 2014, 8, S4.	3.0	13
149	Towards optimal substrate feeding for heterologous protein production in <i>Pichia pastoris (Komagataella spp)</i> fedâ€batch processes under P_{<i>AOX1</i>} control: a modeling aided approach. Journal of Chemical Technology and Biotechnology, 2018, 93, 3208-3218.	3.2	13
150	Identification and characterization of the Komagataella phaffii mating pheromone genes. FEMS Yeast Research, 2018, 18, .	2.3	13
151	Induction and Measurement of UPR and Osmotic Stress in the Yeast Pichia pastoris. Methods in Enzymology, 2011, 489, 165-188.	1.0	12
152	Complete genome sequence and transcriptome regulation of the pentose utilizing yeast<i>Sugiyamaella lignohabitans</i>. FEMS Yeast Research, 2016, 16, fow037.	2.3	11
153	Fine-Tuning of Transcription in <i>Pichia pastoris</i> Using dCas9 and RNA Scaffolds. ACS Synthetic Biology, 2020, 9, 3202-3209.	3.8	11
154	Going beyond the limit: Increasing global translation activity leads to increased productivity of recombinant secreted proteins in Pichia pastoris. Metabolic Engineering, 2022, 70, 181-195.	7.0	11
155	The bud tip is the cellular hot spot of protein secretion in yeasts. Applied Microbiology and Biotechnology, 2016, 100, 8159-8168.	3.6	10
156	Early screening for anti-plum pox virus monoclonal antibodies with different epitope specificities by means of gold-labelled immunosorbent electron microscopy. Journal of Virological Methods, 1988, 22, 351-357.	2.1	9
157	Expression of the plum pox virus coat protein region in Escherichia coli. Virus Genes, 1989, 2, 119-127.	1.6	9
158	Metabolomics of Pichia pastoris: impact of buffering conditions on the kinetics and nature of metabolite loss during quenching. FEMS Yeast Research, 2017, 17, .	2.3	9
159	The Degree and Length of <i>O</i>â€Glycosylation of Recombinant Proteins Produced in <i>Pichia pastoris</i> Depends on the Nature of the Protein and the Process Type. Biotechnology Journal, 2021, 16, e2000266.	3.5	9
160	Two homologs of the Cat8 transcription factor are involved in the regulation of ethanol utilization in Komagataella phaffii. Current Genetics, 2021, 67, 641-661.	1.7	9
161	Recombinant Protein Production in Yeasts. , 2004, 267, 241-258.		8
162	Slow Growth and Increased Spontaneous Mutation Frequency in Respiratory Deficient afo1- Yeast Suppressed by a Dominant Mutation in ATP3. G3: Genes, Genomes, Genetics, 2020, 10, 4637-4648.	1.8	7

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163	Downscaling screening cultures in a multifunctional bioreactor arrayâ€•onâ€•aâ€•chip for speeding up optimization of yeastâ€•based lactic acid bioproduction. Biotechnology and Bioengineering, 2020, 117, 2046-2057.	3.3	7
164	Microscale Perfusionâ€•Based Cultivation for <i>Pichia pastoris</i> Clone Screening Enables Accelerated and Optimized Recombinant Protein Production Processes. Biotechnology Journal, 2021, 16, e2000215.	3.5	7
165	Impact of glutathione metabolism on zinc homeostasis in Saccharomyces cerevisiae. FEMS Yeast Research, 2017, 17, .	2.3	6
166	Pseudohyphal differentiation in Komagataella phaffii: investigating the FLO gene family. FEMS Yeast Research, 2020, 20, .	2.3	5
167	Non-genetic impact factors on chronological lifespan and stress resistance of bakerâ€™s yeast. Microbial Cell, 2016, 3, 232-235.	3.2	4
168	Genotypic and phenotypic diversity among Komagataella species reveals a hidden pathway for xylose utilization. Microbial Cell Factories, 2022, 21, 70.	4.0	4
169	The scientific impact of microbial cell factories. Microbial Cell Factories, 2008, 7, 33.	4.0	3
170	Recombinant protein production in the new Millennium. Microbial Cell Factories, 2007, 6, 33.	4.0	2
171	Recombinant protein production 6: a comparative view on host physiology. New Biotechnology, 2013, 30, 246.	4.4	2
172	Synthetic Biology Assisting Metabolic Pathway Engineering. , 2016, , 255-280.		2
173	Editorial: Metabolic modeling in biotechnology and medical research. Biotechnology Journal, 2013, 8, 962-963.	3.5	1
174	Komagataella phaffii YPS1-5 encodes the alpha-factor degrading protease Bar1. FEMS Yeast Research, 2020, 20, .	2.3	1
175	Fermenting Futures: an artistic view on yeast biotechnology. FEMS Yeast Research, 2021, 21, .	2.3	1
176	Microbial cell factories: a biotechnology journey across species. Essays in Biochemistry, 2021, 65, 143-145.	4.7	1
177	Production of Metabolites and Heterologous Proteins. , 2014, , 299-326.		1
178	Stopping the DNA polymerase activity at a specific site with a dideoxyoligonucleotide: selective labelling of single stranded circular DNA. Nucleic Acids Research, 1989, 17, 8384-8384.	14.5	0
179	Title is missing!. Microbial Cell Factories, 2006, 5, P53.	4.0	0
180	Monitoring intracellular redox conditions in the endoplasmic reticulum of living yeasts. FEMS Microbiology Letters, 2010, , no-no.	1.8	0

#	ARTICLE	IF	CITATIONS
181	Integrative Analysis of -Omics Data: A Method Comparison. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	0
182	Production of Recombinant Human Trypsinogen in Escherichia Coli and Pichia Pastoris. , 2001, , 339-346.		0
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