

Brigitte Gasser

List of Publications by Year in descending order

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95
papers

6,437
citations

57631

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docs citations

99
times ranked

3971
citing authors

#	ARTICLE	IF	CITATIONS
1	Going beyond the limit: Increasing global translation activity leads to increased productivity of recombinant secreted proteins in <i>Pichia pastoris</i> . <i>Metabolic Engineering</i> , 2022, 70, 181-195.	3.6	11
2	Microbial protein cell factories fight back?. <i>Trends in Biotechnology</i> , 2022, 40, 576-590.	4.9	27
3	The Degree and Length of <i>O</i> -Glycosylation of Recombinant Proteins Produced in <i>Pichia pastoris</i> Depends on the Nature of the Protein and the Process Type. <i>Biotechnology Journal</i> , 2021, 16, e2000266.	1.8	9
4	Beyond alcohol oxidase: the methylotrophic yeast <i>Komagataella phaffii</i> utilizes methanol also with its native alcohol dehydrogenase Adh2. <i>FEMS Yeast Research</i> , 2021, 21, .	1.1	14
5	Two homologs of the Cat8 transcription factor are involved in the regulation of ethanol utilization in <i>Komagataella phaffii</i> . <i>Current Genetics</i> , 2021, 67, 641-661.	0.8	9
6	Treatment with surfactants enables quantification of translational activity by O-propargyl-puromycin labelling in yeast. <i>BMC Microbiology</i> , 2021, 21, 120.	1.3	5
7	Established tools and emerging trends for the production of recombinant proteins and metabolites in <i>Pichia pastoris</i> . <i>Essays in Biochemistry</i> , 2021, 65, 293-307.	2.1	16
8	What makes <i>Komagataella phaffii</i> non-conventional?. <i>FEMS Yeast Research</i> , 2021, 21, .	1.1	20
9	The secretome of <i>Pichia pastoris</i> in fed-batch cultivations is largely independent of the carbon source but changes quantitatively over cultivation time. <i>Microbial Biotechnology</i> , 2020, 13, 479-494.	2.0	15
10	The industrial yeast <i>Pichia pastoris</i> is converted from a heterotroph into an autotroph capable of growth on CO ₂ . <i>Nature Biotechnology</i> , 2020, 38, 210-216.	9.4	200
11	Pseudohyphal differentiation in <i>Komagataella phaffii</i> : investigating the FLO gene family. <i>FEMS Yeast Research</i> , 2020, 20, .	1.1	5
12	<i>Komagataella phaffii</i> YPS1-5 encodes the alpha-factor degrading protease Bar1. <i>FEMS Yeast Research</i> , 2020, 20, .	1.1	1
13	Engineered Deregulation of Expression in Yeast with Designed Hybrid Promoter Architectures in Coordination with Discovered Master Regulator Transcription Factor. <i>Advanced Biology</i> , 2020, 4, e1900172.	3.0	18
14	Characterization of methanol utilization negative <i>Pichia pastoris</i> for secreted protein production: New cultivation strategies for current and future applications. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1394-1405.	1.7	19
15	A subcellular proteome atlas of the yeast <i>Komagataella phaffii</i> . <i>FEMS Yeast Research</i> , 2020, 20, .	1.1	16
16	Microbe Profile: <i>Komagataella phaffii</i> : a methanol devouring biotech yeast formerly known as <i>Pichia pastoris</i> . <i>Microbiology (United Kingdom)</i> , 2020, 166, 614-616.	0.7	19
17	13 Yeast Cell Factories. , 2020, , 319-337.		0
18	Disruption of vacuolar protein sorting components of the HOPS complex leads to enhanced secretion of recombinant proteins in <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , 2019, 18, 119.	1.9	24

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19	Engineering of <i>alcohol dehydrogenase 2</i> hybrid promoter architectures in <i>Pichia pastoris</i> to enhance recombinant protein expression on ethanol. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2674-2686.	1.7	33
20	Detection and Elimination of Cellular Bottlenecks in Protein-Producing Yeasts. <i>Methods in Molecular Biology</i> , 2019, 1923, 75-95.	0.4	29
21	CRISPR/Cas9-Mediated Homology-Directed Genome Editing in <i>Pichia pastoris</i> . <i>Methods in Molecular Biology</i> , 2019, 1923, 211-225.	0.4	45
22	Metabolic engineering of <i>Pichia pastoris</i> . <i>Metabolic Engineering</i> , 2018, 50, 2-15.	3.6	163
23	Creation of Stable Heterothallic Strains of <i>Komagataella phaffii</i> Enables Dissection of Mating Gene Regulation. <i>Molecular and Cellular Biology</i> , 2018, 38, .	1.1	20
24	A yeast for all seasons – Is <i>Pichia pastoris</i> a suitable chassis organism for future bioproduction?. <i>FEMS Microbiology Letters</i> , 2018, 365, .	0.7	40
25	Superior protein titers in half the fermentation time: Promoter and process engineering for the glucose-regulated <i>GTH1</i> promoter of <i>Pichia pastoris</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 2479-2488.	1.7	33
26	Identification and characterization of the <i>Komagataella phaffii</i> mating pheromone genes. <i>FEMS Yeast Research</i> , 2018, 18, .	1.1	13
27	The impact of ERAD on recombinant protein secretion in <i>Pichia pastoris</i> (syn <i>Komagataella</i> spp.). <i>Microbiology (United Kingdom)</i> , 2018, 164, 453-463.	0.7	25
28	Disruption of genes involved in CORVET complex leads to enhanced secretion of heterologous carboxylesterase only in protease deficient <i>Pichia pastoris</i> . <i>Biotechnology Journal</i> , 2017, 12, 1600584.	1.8	37
29	Increased dosage of AOX1 promoter-regulated expression cassettes leads to transcription attenuation of the methanol metabolism in <i>Pichia pastoris</i> . <i>Scientific Reports</i> , 2017, 7, 44302.	1.6	55
30	Systems biotechnology for protein production in <i>Pichia pastoris</i> . <i>FEMS Yeast Research</i> , 2017, 17, .	1.1	91
31	Biomarkers allow detection of nutrient limitations and respective supplementation for elimination in <i>Pichia pastoris</i> fed-batch cultures. <i>Microbial Cell Factories</i> , 2017, 16, 117.	1.9	17
32	Transcriptional engineering of the glyceraldehyde-3-phosphate dehydrogenase promoter for improved heterologous protein production in <i>Pichia pastoris</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 2319-2327.	1.7	51
33	GoldenPiCS: a Golden Gate-derived modular cloning system for applied synthetic biology in the yeast <i>Pichia pastoris</i> . <i>BMC Systems Biology</i> , 2017, 11, 123.	3.0	105
34	Curation of the genome annotation of <i>Pichia pastoris</i> (<i>Komagataella phaffii</i>) CBS7435 from gene level to protein function. <i>FEMS Yeast Research</i> , 2016, 16, fow051.	1.1	69
35	Increasing pentose phosphate pathway flux enhances recombinant protein production in <i>Pichia pastoris</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5955-5963.	1.7	54
36	The vitamin-sensitive promoter P _{THI11} enables pre-defined autonomous induction of recombinant protein production in <i>Pichia pastoris</i> . <i>Biotechnology and Bioengineering</i> , 2016, 113, 2633-2643.	1.7	33

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37	Functional inclusion bodies produced in the yeast <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , 2016, 15, 166.	1.9	32
38	The bud tip is the cellular hot spot of protein secretion in yeasts. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8159-8168.	1.7	10
39	Molecular optimization of rabies virus glycoprotein expression in <i>Pichia pastoris</i> . <i>Microbial Biotechnology</i> , 2016, 9, 355-368.	2.0	34
40	Systems-level organization of yeast methylotrophic lifestyle. <i>BMC Biology</i> , 2015, 13, 80.	1.7	118
41	Multistep processing of the secretion leader of the extracellular protein Epx1 in <i>Pichia pastoris</i> and implications for protein localization. <i>Microbiology (United Kingdom)</i> , 2015, 161, 1356-1368.	0.7	20
42	<i>Pichia pastoris</i> regulates its gene-specific response to different carbon sources at the transcriptional, rather than the translational, level. <i>BMC Genomics</i> , 2015, 16, 167.	1.2	77
43	Methanol regulated yeast promoters: production vehicles and toolbox for synthetic biology. <i>Microbial Cell Factories</i> , 2015, 14, 196.	1.9	35
44	Quo vadis? The challenges of recombinant protein folding and secretion in <i>Pichia pastoris</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2925-2938.	1.7	134
45	Metabolomics sampling of <i>Pichia pastoris</i> revisited: rapid filtration prevents metabolite loss during quenching. <i>FEMS Yeast Research</i> , 2015, 15, fov049.	1.1	14
46	Overexpression of the transcription factor Yap1 modifies intracellular redox conditions and enhances recombinant protein secretion. <i>Microbial Cell</i> , 2014, 1, 376-386.	1.4	27
47	<i>Pichia pastoris</i> Aft1 - a novel transcription factor, enhancing recombinant protein secretion. <i>Microbial Cell Factories</i> , 2014, 13, 120.	1.9	33
48	In <i>Pichia pastoris</i> , growth rate regulates protein synthesis and secretion, mating and stress response. <i>Biotechnology Journal</i> , 2014, 9, 511-525.	1.8	86
49	The lipidome and proteome of microsomes from the methylotrophic yeast <i>Pichia pastoris</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 215-226.	1.2	34
50	Sample preparation workflow for the liquid chromatography tandem mass spectrometry based analysis of nicotinamide adenine dinucleotide phosphate cofactors in yeast. <i>Journal of Separation Science</i> , 2014, 37, 2185-2191.	1.3	19
51	Yeast biotechnology: teaching the old dog new tricks. <i>Microbial Cell Factories</i> , 2014, 13, 34.	1.9	91
52	<i>Pichia pastoris</i> secretes recombinant proteins less efficiently than Chinese hamster ovary cells but allows higher space-time yields for less complex proteins. <i>Biotechnology Journal</i> , 2014, 9, 526-537.	1.8	55
53	Engineering of Protein Folding and Secretion – Strategies to Overcome Bottlenecks for Efficient Production of Recombinant Proteins. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 414-437.	2.5	78
54	Model based engineering of <i>Pichia pastoris</i> central metabolism enhances recombinant protein production. <i>Metabolic Engineering</i> , 2014, 24, 129-138.	3.6	130

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55	Accurate quantification of the redox-sensitive GSH/GSSG ratios in the yeast <i>Pichia pastoris</i> by HILIC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2031-2039.	1.9	34
56	Repressible promoters – A novel tool to generate conditional mutants in <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , 2013, 12, 6.	1.9	39
57	Induction without methanol: novel regulated promoters enable high-level expression in <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , 2013, 12, 5.	1.9	114
58	Identification and deletion of the major secreted protein of <i>Pichia pastoris</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1241-1249.	1.7	32
59	<i>Pichia pastoris</i> : protein production host and model organism for biomedical research. <i>Future Microbiology</i> , 2013, 8, 191-208.	1.0	198
60	The secretory pathway: exploring yeast diversity. <i>FEMS Microbiology Reviews</i> , 2013, 37, 872-914.	3.9	176
61	Unconventional microbial systems for the cost-efficient production of high-quality protein therapeutics. <i>Biotechnology Advances</i> , 2013, 31, 140-153.	6.0	116
62	U ¹³ C ₃ cell extract of <i>Pichia pastoris</i> – a powerful tool for evaluation of sample preparation in metabolomics. <i>Journal of Separation Science</i> , 2012, 35, 3091-3105.	1.3	66
63	Recombinant Protein Production in Yeasts. <i>Methods in Molecular Biology</i> , 2012, 824, 329-358.	0.4	245
64	Oxidative protein folding and unfolded protein response elicit differing redox regulation in endoplasmic reticulum and cytosol of yeast. <i>Free Radical Biology and Medicine</i> , 2012, 52, 2000-2012.	1.3	81
65	Induction and Measurement of UPR and Osmotic Stress in the Yeast <i>Pichia pastoris</i> . <i>Methods in Enzymology</i> , 2011, 489, 165-188.	0.4	12
66	A Gene Optimization Strategy that Enhances Production of Fully Functional P-Glycoprotein in <i>Pichia pastoris</i> . <i>PLoS ONE</i> , 2011, 6, e22577.	1.1	92
67	Production of recombinant proteins and metabolites in yeasts. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 939-948.	1.7	90
68	Influence of growth temperature on the production of antibody Fab fragments in different microbes: A host comparative analysis. <i>Biotechnology Progress</i> , 2011, 27, 38-46.	1.3	46
69	Reverse engineering of protein secretion by uncoupling of cell cycle phases from growth. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2403-2412.	1.7	26
70	Genome-scale metabolic model of methylotrophic yeast <i>Pichia pastoris</i> and its use for <i>in silico</i> analysis of heterologous protein production. <i>Biotechnology Journal</i> , 2010, 5, 705-715.	1.8	111
71	The response to unfolded protein is involved in osmotolerance of <i>Pichia pastoris</i> . <i>BMC Genomics</i> , 2010, 11, 207.	1.2	74
72	A multi-level study of recombinant <i>Pichia pastoris</i> in different oxygen conditions. <i>BMC Systems Biology</i> , 2010, 4, 141.	3.0	136

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73	Genome-scale analysis of library sorting (GALibSo): Isolation of secretion enhancing factors for recombinant protein production in <i>Pichia pastoris</i> . <i>Biotechnology and Bioengineering</i> , 2010, 105, 543-555.	1.7	34
74	Identification and characterisation of novel <i>Pichia pastoris</i> promoters for heterologous protein production. <i>Journal of Biotechnology</i> , 2010, 150, 519-529.	1.9	110
75	Engineering of biotin-prototrophy in <i>Pichia pastoris</i> for robust production processes. <i>Metabolic Engineering</i> , 2010, 12, 573-580.	3.6	27
76	Monitoring intracellular redox conditions in the endoplasmic reticulum of living yeasts. <i>FEMS Microbiology Letters</i> , 2010, 306, 61-66.	0.7	47
77	Monitoring intracellular redox conditions in the endoplasmic reticulum of living yeasts. <i>FEMS Microbiology Letters</i> , 2010, , no-no.	0.7	0
78	Yeast systems biotechnology for the production of heterologous proteins. <i>FEMS Yeast Research</i> , 2009, 9, 335-348.	1.1	69
79	Directed gene copy number amplification in <i>Pichia pastoris</i> by vector integration into the ribosomal DNA locus. <i>FEMS Yeast Research</i> , 2009, 9, 1260-1270.	1.1	104
80	Engineering of bottlenecks in <i>Rhizopus oryzae</i> lipase production in <i>Pichia pastoris</i> using the nitrogen source-regulated FLD1 promoter. <i>New Biotechnology</i> , 2009, 25, 396-403.	2.4	46
81	The Effect of Temperature on the Proteome of Recombinant <i>Pichia pastoris</i> . <i>Journal of Proteome Research</i> , 2009, 8, 1380-1392.	1.8	170
82	Genome, secretome and glucose transport highlight unique features of the protein production host <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , 2009, 8, 29.	1.9	189
83	Open access to sequence: Browsing the <i>Pichia pastoris</i> genome. <i>Microbial Cell Factories</i> , 2009, 8, 53.	1.9	55
84	Novel insights into the unfolded protein response using <i>Pichia pastoris</i> specific DNA microarrays. <i>BMC Genomics</i> , 2008, 9, 390.	1.2	103
85	Protein folding and conformational stress in microbial cells producing recombinant proteins: a host comparative overview. <i>Microbial Cell Factories</i> , 2008, 7, 11.	1.9	269
86	High level expression of a promising anti-idiotypic antibody fragment vaccine against HIV-1 in <i>Pichia pastoris</i> . <i>Journal of Biotechnology</i> , 2007, 128, 735-746.	1.9	41
87	Transcriptomics-Based Identification of Novel Factors Enhancing Heterologous Protein Secretion in Yeasts. <i>Applied and Environmental Microbiology</i> , 2007, 73, 6499-6507.	1.4	148
88	Monitoring of transcriptional regulation in <i>Pichia pastoris</i> under protein production conditions. <i>BMC Genomics</i> , 2007, 8, 179.	1.2	105
89	Antibody production with yeasts and filamentous fungi: on the road to large scale?. <i>Biotechnology Letters</i> , 2007, 29, 201-212.	1.1	68
90	Title is missing!. <i>Microbial Cell Factories</i> , 2006, 5, P53.	1.9	0

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91	Versatile modeling and optimization of fed batch processes for the production of secreted heterologous proteins with <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , 2006, 5, 37.	1.9	97
92	Engineering of <i>Pichia pastoris</i> for improved production of antibody fragments. <i>Biotechnology and Bioengineering</i> , 2006, 94, 353-361.	1.7	177
93	Effects of gene dosage, promoters, and substrates on unfolded protein stress of recombinant <i>Pichia pastoris</i> . <i>Biotechnology and Bioengineering</i> , 2004, 85, 367-375.	1.7	243
94	Differential gene expression in recombinant <i>Pichia pastoris</i> analysed by heterologous DNA microarray hybridisation. <i>Microbial Cell Factories</i> , 2004, 3, 17.	1.9	55
95	Stress in recombinant protein producing yeasts. <i>Journal of Biotechnology</i> , 2004, 113, 121-135.	1.9	209