

Joan Albiol Sala

List of Publications by Year in descending order

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42
papers

1,690
citations

318942

23
h-index

388640

36
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42
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42
docs citations

42
times ranked

1652
citing authors

#	ARTICLE	IF	CITATIONS
1	Benchmarking recombinant <i>Pichia pastoris</i> for 3-hydroxypropionic acid production from glycerol. <i>Microbial Biotechnology</i> , 2021, 14, 1671-1682.	2.0	16
2	Redox Engineering by Ectopic Overexpression of NADH Kinase in Recombinant <i>Pichia pastoris</i> (<i>P. pastoris</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 Proteins. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	16
3	Continuous Cultivation as a Tool Toward the Rational Bioprocess Development With <i>Pichia Pastoris</i> Cell Factory. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 632.	2.0	26
4	Contextualized genome-scale model unveils high-order metabolic effects of the specific growth rate and oxygenation level in recombinant <i>Pichia pastoris</i> . <i>Metabolic Engineering Communications</i> , 2019, 9, e00103.	1.9	21
5	Deregulation of methanol metabolism reverts transcriptional limitations of recombinant <i>Pichia pastoris</i> (<i>Komagataella</i> spp) with multiple expression cassettes under control of the <i>AOX1</i> promoter. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1710-1720.	1.7	18
6	Rational development of bioprocess engineering strategies for recombinant protein production in <i>Pichia pastoris</i> (<i>Komagataella phaffii</i>) using the methanol-free GAP promoter. <i>Where do we stand?</i> . <i>New Biotechnology</i> , 2019, 53, 24-34.	2.4	37
7	Metabolic flux balance analysis during lactate and glucose concomitant consumption in HEK293 cell cultures. <i>Biotechnology and Bioengineering</i> , 2019, 116, 388-404.	1.7	21
8	Glycerol metabolism of <i>Pichia pastoris</i> (<i>Komagataella</i> spp.) characterised by ¹³ C-based metabolic flux analysis. <i>New Biotechnology</i> , 2019, 50, 52-59.	2.4	25
9	Fine-tuning the <i>P. pastoris</i> iMT1026 genome-scale metabolic model for improved prediction of growth on methanol or glycerol as sole carbon sources. <i>Microbial Biotechnology</i> , 2018, 11, 224-237.	2.0	57
10	Metabolic flux analysis and the NAD(P)H/NAD(P) ⁺ ratios in chemostat cultures of <i>Azotobacter vinelandii</i> . <i>Microbial Cell Factories</i> , 2018, 17, 10.	1.9	28
11	Increased dosage of <i>AOX1</i> 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
12	Genome-scale metabolic reconstruction for the insidious bacterium in aquaculture <i>Piscirickettsia salmonis</i> . <i>Bioresource Technology</i> , 2017, 223, 105-114.	4.8	17
13	Integration and Validation of the Genome-Scale Metabolic Models of <i>Pichia pastoris</i> : A Comprehensive Update of Protein Glycosylation Pathways, Lipid and Energy Metabolism. <i>PLoS ONE</i> , 2016, 11, e0148031.	1.1	56
14	Droplet digital PCR-aided screening and characterization of <i>Pichia pastoris</i> multiple gene copy strains. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1542-1551.	1.7	36
15	Lactate and glucose concomitant consumption as a self-regulated pH detoxification mechanism in HEK293 cell cultures. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 9951-9960.	1.7	51
16	Use of chemostat cultures mimicking different phases of wine fermentations as a tool for quantitative physiological analysis. <i>Microbial Cell Factories</i> , 2014, 13, 85.	1.9	14
17	Metabolic flux analysis of recombinant <i>Pichia pastoris</i> growing on different glycerol/methanol mixtures by iterative fitting of NMR-derived ¹³ C-labelling data from proteinogenic amino acids. <i>New Biotechnology</i> , 2014, 31, 120-132.	2.4	47
18	Investigating the physiological effect of increased heterologous gene dosage in <i>Pichia pastoris</i> using transcriptomics. <i>New Biotechnology</i> , 2014, 31, S59-S60.	2.4	0

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19	Quantitative Metabolomics and Instationary ¹³ C-Metabolic Flux Analysis Reveals Impact of Recombinant Protein Production on Trehalose and Energy Metabolism in <i>Pichia pastoris</i> . <i>Metabolites</i> , 2014, 4, 281-299.	1.3	42
20	¹³ C-Based Metabolic Flux Analysis in Yeast: The <i>Pichia pastoris</i> Case. <i>Methods in Molecular Biology</i> , 2014, 1152, 209-232.	0.4	3
21	¹³ C-Based Metabolic Flux Analysis of Recombinant <i>Pichia pastoris</i> . <i>Methods in Molecular Biology</i> , 2014, 1191, 291-313.	0.4	16
22	Glucose-methanol co-utilization in <i>Pichia pastoris</i> studied by metabolomics and instationary ¹³ C flux analysis. <i>BMC Systems Biology</i> , 2013, 7, 17.	3.0	63
23	Metabolic Flux Analysis during the Exponential Growth Phase of <i>Saccharomyces cerevisiae</i> in Wine Fermentations. <i>PLoS ONE</i> , 2013, 8, e71909.	1.1	44
24	Metabolic flux profiling of recombinant protein secreting <i>Pichia pastoris</i> growing on glucose:methanol mixtures. <i>Microbial Cell Factories</i> , 2012, 11, 57.	1.9	101
25	Quantitative metabolomics analysis of amino acid metabolism in recombinant <i>Pichia pastoris</i> under different oxygen availability conditions. <i>Microbial Cell Factories</i> , 2012, 11, 83.	1.9	36
26	Development of quantitative metabolomics for <i>Pichia pastoris</i> . <i>Metabolomics</i> , 2012, 8, 284-298.	1.4	45
27	Areas of Research. , 2011, , 55-170.		0
28	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
29	Investigating the potential interactions between energy metabolism and recombinant protein production in <i>Pichia pastoris</i> by ¹³ C-based metabolic flux analysis. <i>New Biotechnology</i> , 2009, 25, S330.	2.4	1
30	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
31	Macromolecular and elemental composition analysis and extracellular metabolite balances of <i>Pichia pastoris</i> growing at different oxygen levels. <i>Microbial Cell Factories</i> , 2009, 8, 65.	1.9	112
32	Static Mass Balance Studies of the MELISSA Pilot Plant: Integration of a Higher Plant Chamber. , 2004, , .		4
33	The MELISSA pilot plant facility as an integration test-bed for advanced life support systems. <i>Advances in Space Research</i> , 2004, 34, 1483-1493.	1.2	43
34	Nitrification by immobilized cells in a micro-ecological life support system using packed-bed bioreactors: an engineering study. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 742-754.	1.6	14
35	MELISSA: a loop of interconnected bioreactors to develop life support in Space. <i>Journal of Biotechnology</i> , 2002, 99, 319-330.	1.9	169
36	Connection Between Different Compartments of the MELISSA Biological Life Support System. , 2001, , .		1

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37	Scale-Up and Design of a Pilot-Plant Photobioreactor for the Continuous Culture of <i>Spirulina platensis</i> . <i>Biotechnology Progress</i> , 2001, 17, 431-438.	1.3	26
38	Modeling Photoheterotrophic Growth Kinetics of <i>Rhodospirillum rubrum</i> in Rectangular Photobioreactors. <i>Biotechnology Progress</i> , 2000, 16, 199-207.	1.3	25
39	Biomass estimation in plant cell cultures: a neural network approach. <i>Biotechnology Progress</i> , 1995, 11, 88-92.	1.3	47
40	Preliminary Studies on the Performance and Behaviour of the MELISSA Photoheterotrophic Compartment. , 1994, , .		0
41	Biomass estimation in plant cell cultures using an extended Kalman filter. <i>Biotechnology Progress</i> , 1993, 9, 174-178.	1.3	45
42	Biological Life Support System Demonstration Facility: The Melissa Pilot Plant. , 0, , .		6