

Joan Albiol Sala

List of Publications by Year in descending order

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42
papers

1,690
citations

279798

23
h-index

345221

36
g-index

42
all docs

42
docs citations

42
times ranked

1486
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of Temperature on the Proteome of Recombinant <i>Pichia pastoris</i> . Journal of Proteome Research, 2009, 8, 1380-1392.	3.7	170
2	MELISSA: a loop of interconnected bioreactors to develop life support in Space. Journal of Biotechnology, 2002, 99, 319-330.	3.8	169
3	A multi-level study of recombinant <i>Pichia pastoris</i> in different oxygen conditions. BMC Systems Biology, 2010, 4, 141.	3.0	136
4	Macromolecular and elemental composition analysis and extracellular metabolite balances of <i>Pichia pastoris</i> growing at different oxygen levels. Microbial Cell Factories, 2009, 8, 65.	4.0	112
5	Metabolic flux profiling of recombinant protein secreting <i>Pichia pastoris</i> growing on glucose:methanol mixtures. Microbial Cell Factories, 2012, 11, 57.	4.0	101
6	Glucose-methanol co-utilization in <i>Pichia pastoris</i> studied by metabolomics and instationary ¹³ C flux analysis. BMC Systems Biology, 2013, 7, 17.	3.0	63
7	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. Microbial Biotechnology, 2018, 11, 224-237.	4.2	57
8	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. PLoS ONE, 2016, 11, e0148031.	2.5	56
9	Increased dosage of AOX1 promoter-regulated expression cassettes leads to transcription attenuation of the methanol metabolism in <i>Pichia pastoris</i> . Scientific Reports, 2017, 7, 44302.	3.3	55
10	Lactate and glucose concomitant consumption as a self-regulated pH detoxification mechanism in HEK293 cell cultures. Applied Microbiology and Biotechnology, 2015, 99, 9951-9960.	3.6	51
11	Biomass estimation in plant cell cultures: a neural network approach. Biotechnology Progress, 1995, 11, 88-92.	2.6	47
12	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. New Biotechnology, 2014, 31, 120-132.	4.4	47
13	Biomass estimation in plant cell cultures using an extended Kalman filter. Biotechnology Progress, 1993, 9, 174-178.	2.6	45
14	Development of quantitative metabolomics for <i>Pichia pastoris</i> . Metabolomics, 2012, 8, 284-298.	3.0	45
15	Metabolic Flux Analysis during the Exponential Growth Phase of <i>Saccharomyces cerevisiae</i> in Wine Fermentations. PLoS ONE, 2013, 8, e71909.	2.5	44
16	The MELISSA pilot plant facility as an integration test-bed for advanced life support systems. Advances in Space Research, 2004, 34, 1483-1493.	2.6	43
17	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> . Metabolites, 2014, 4, 281-299.	2.9	42
18	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. Where do we stand?. New Biotechnology, 2019, 53, 24-34.	4.4	37

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19	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.	4.0	36
20	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.	3.3	36
21	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.	4.0	28
22	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.	2.6	26
23	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.	4.1	26
24	Modeling Photoheterotrophic Growth Kinetics of <i>Rhodospirillum rubrum</i> in Rectangular Photobioreactors. <i>Biotechnology Progress</i> , 2000, 16, 199-207.	2.6	25
25	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.	4.4	25
26	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.	3.6	21
27	Metabolic flux balance analysis during lactate and glucose concomitant consumption in HEK293 cell cultures. <i>Biotechnology and Bioengineering</i> , 2019, 116, 388-404.	3.3	21
28	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.	3.3	18
29	Genome-scale metabolic reconstruction for the insidious bacterium in aquaculture <i>Piscirickettsia salmonis</i> . <i>Bioresource Technology</i> , 2017, 223, 105-114.	9.6	17
30	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 30 Proteins. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	16
31	Benchmarking recombinant <i>Pichia pastoris</i> for 3-hydroxypropionic acid production from glycerol. <i>Microbial Biotechnology</i> , 2021, 14, 1671-1682.	4.2	16
32	¹³ C-Based Metabolic Flux Analysis of Recombinant <i>Pichia pastoris</i> . <i>Methods in Molecular Biology</i> , 2014, 1191, 291-313.	0.9	16
33	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.	3.2	14
34	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.	4.0	14
35	Biological Life Support System Demonstration Facility: The Melissa Pilot Plant. , 0, , .		6
36	Static Mass Balance Studies of the MELiSSA Pilot Plant: Integration of a Higher Plant Chamber. , 2004, , .		4

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37	13C-Based Metabolic Flux Analysis in Yeast: The <i>Pichia pastoris</i> Case. <i>Methods in Molecular Biology</i> , 2014, 1152, 209-232.	0.9	3
38	Connection Between Different Compartments of the MELISSA Biological Life Support System. , 2001, , .		1
39	Investigating the potential interactions between energy metabolism and recombinant protein production in <i>Pichia pastoris</i> by 13C-based metabolic flux analysis. <i>New Biotechnology</i> , 2009, 25, S330.	4.4	1
40	Preliminary Studies on the Performance and Behaviour of the MELISSA Photoheterotrophic Compartment. , 1994, , .		0
41	Investigating the physiological effect of increased heterologous gene dosage in <i>Pichia pastoris</i> using transcriptomics. <i>New Biotechnology</i> , 2014, 31, S59-S60.	4.4	0
42	Areas of Research. , 2011, , 55-170.		0