Alfred FernÃ¡ndez-CastanÃ©

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3627557/publications.pdf

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19	348	933447 10	839539 18
papers	citations	h-index	g-index

22	22	22	585
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Validation of RetroPath, a computerâ€aided design tool for metabolic pathway engineering. Biotechnology Journal, 2014, 9, 1446-1457.	3.5	53
2	Evidencing the role of lactose permease in IPTG uptake by Escherichia coli in fed-batch high cell density cultures. Journal of Biotechnology, 2012, 157, 391-398.	3.8	42
3	Using promoter libraries to reduce metabolic burden due to plasmid-encoded proteins in recombinant Escherichia coli. New Biotechnology, 2016, 33, 78-90.	4.4	38
4	Metabolic characterisation of Magnetospirillum gryphiswaldense MSR-1 using LC-MS-based metabolite profiling. RSC Advances, 2020, 10, 32548-32560.	3.6	33
5	Computer-aided design for metabolic engineering. Journal of Biotechnology, 2014, 192, 302-313.	3.8	26
6	Development of a simple intensified fermentation strategy for growth of Magnetospirillum gryphiswaldense MSR-1: Physiological responses to changing environmental conditions. New Biotechnology, 2018, 46, 22-30.	4.4	25
7	Production of microbial lipids utilizing volatile fatty acids derived from wastepaper: A biorefinery approach for biodiesel production. Fuel, 2020, 276, 118087.	6.4	23
8	Direct measurements of IPTG enable analysis of the induction behavior of E. coli in high cell density cultures. Microbial Cell Factories, 2012, 11, 58.	4.0	19
9	Flow cytometry as a rapid analytical tool to determine physiological responses to changing O2 and iron concentration by Magnetospirillum gryphiswaldense strain MSR-1. Scientific Reports, 2017, 7, 13118.	3.3	18
10	Extraction of antibiotics using aqueous two-phase systems based on ethyl lactate and thiosulphate salts. Fluid Phase Equilibria, 2021, 539, 113022.	2.5	16
11	Development and Validation of a Liquid Chromatography-Mass Spectrometry Assay for the Quantitation of IPTG in E. Coli Fed-Batch Cultures. Analytical Chemistry, 2010, 82, 5728-5734.	6.5	13
12	From laboratory to pilot plant E. coli fed-batch cultures: optimizing the cellular environment for protein maximization. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 335-343.	3.0	10
13	Magnetic hydrophobicâ€charge induction adsorbents for the recovery of immunoglobulins from antiserum feedstocks by highâ€gradient magnetic fishing. Journal of Chemical Technology and Biotechnology, 2018, 93, 1901-1915.	3.2	10
14	Nanoparticle tracking analysis as a process analytical tool for characterising magnetosome preparations. Food and Bioproducts Processing, 2021, 127, 426-434.	3.6	5
15	Magnetotactic Bacteria-Based Biorefinery: Potential for Generating Multiple Products from a Single Fermentation. ACS Sustainable Chemistry and Engineering, 2021, 9, 10537-10546.	6.7	5
16	Bioinformatic characterization of a triacylglycerol lipase produced by Aspergillus flavus isolated from the decaying seed of Cucumeropsis mannii. Journal of Biomolecular Structure and Dynamics, 2023, 41, 2587-2601.	3.5	5
17	Quantitative modeling of inducer transport in fed-batch cultures of Escherichia coli. Biochemical Engineering Journal, 2014, 91, 210-219.	3.6	3
18	Unveiling magnetosome biomineralization in magnetotactic bacteria. Biochemist, 2019, 41, 58-59.	0.5	1

#	Article	IF	Citations
19	Process intensification at the expression system level for the production of 1-phosphate aldolase in antibiotic-free E. coli fed-batch cultures. Journal of Industrial Microbiology and Biotechnology, 2022, 49, .	3.0	1