Mauricio A Trujillo-RoldÃ¡n

List of Publications by Year
in descending order

48 papers	1,276 citations	430874 18 h-index	361022 35 g-index
49 all docs	49 docs citations	49 times ranked	1405 citing authors

#	Article	IF	Citations
1	Quercetin and 1-methyl-2-oxindole mimic root signaling that promotes spore germination and mycelial growth of Gigaspora margarita. Mycorrhiza, 2022, 32, 177-191.	2.8	2
2	A comprehensive comparison of mixing and mass transfer in shake flasks and their relationship with MAb productivity of CHO cells. Bioprocess and Biosystems Engineering, 2022, , 1.	3.4	0
3	The pre-induction temperature affects recombinant HuGM-CSF aggregation in thermoinducible Escherichia coli. Applied Microbiology and Biotechnology, 2022, 106, 2883-2902.	3.6	6
4	Computational Design of Inhibitors Targeting the Catalytic Î² Subunit of Escherichia coli FOF1-ATP Synthase. Antibiotics, 2022, 11, 557.	3.7	3
5	A case study of a profitable mid-tech greenhouse for the sustainable production of tomato, using a biofertilizer and a biofungicide. Electronic Journal of Biotechnology, 2022, 59, 13-24.	2.2	4
6	Thermoinducible expression system for producing recombinant proteins in Escherichia coli: advances and insights. FEMS Microbiology Reviews, 2021, 45, .	8.6	9
7	Integrative overview of antibodies against SARS-CoV-2 and their possible applications in COVID-19 prophylaxis and treatment. Microbial Cell Factories, 2021, 20, 88.	4.0	37
8	Compartmentalized Proteomic Profiling Outlines the Crucial Role of the Classical Secretory Pathway during Recombinant Protein Production in Chinese Hamster Ovary Cells. ACS Omega, 2021, 6, 12439-12458.	3.5	9
9	Bacillus velezensis 83 increases productivity and quality of tomato (Solanum lycopersicum L.): Pre and postharvest assessment. Current Research in Microbial Sciences, 2021, 2, 100076.	2.3	15
10	Oxygen transfer rate affect polyhydroxybutyrate production and oxidative stress response in submerged cultures of Rhizobium phaseoli. Biochemical Engineering Journal, 2020, 162, 107721.	3.6	4
11	Modeling the interaction between the central carbon metabolism of Escherichia coli and bioreactor culture media. Biochemical Engineering Journal, 2020, 163, 107753.	3.6	2
12	Comparison of protein precipitation methods for sample preparation prior to proteomic analysis of Chinese hamster ovary cell homogenates. Electronic Journal of Biotechnology, 2020, 48, 86-94.	2.2	10
13	Enrichment of microsomes from Chinese hamster ovary cells by subcellular fractionation for its use in proteomic analysis. PLoS ONE, 2020, 15, e0237930.	2.5	4
14	From field sampling to pneumatic bioreactor mycelia production of the ectomycorrhizal mushroom Laccaria trichodermophora. Fungal Biology, 2020, 124, 205-218.	2.5	2
15	Nutrient supplementation strategy improves cell concentration and longevity, monoclonal antibody production and lactate metabolism of Chinese hamster ovary cells. Bioengineered, 2020, 11, 463-471.	3.2	18
16	Laccases: structure, function, and potential application in water bioremediation. Microbial Cell Factories, 2019, 18, 200.	4.0	269
17	Recombinant O-mannosylated protein production (PstS-1) from Mycobacterium tuberculosis in Pichia pastoris (Komagataella phaffii) as a tool to study tuberculosis infection. Microbial Cell Factories, 2019, 18, 11.	4.0	9
18	Recombinant production of ESAT-6 antigen in thermoinducible Escherichia coli: the role of culture scale and temperature on metabolic response, expression of chaperones, and architecture of inclusion bodies. Cell Stress and Chaperones, 2019, 24, 777-792.	2.9	11

#	Article	IF	Citations
19	Bacterial inclusion bodies are industrially exploitable amyloids. FEMS Microbiology Reviews, 2019, 43, 53-72.	8.6	77
20	VOLUMETRIC POWER INPUT AS A RELIABLE PARAMETER FOR SCALE-UP FROM SHAKE FLASK TO STIRRED-TANK BIOREACTOR: PRODUCTION OF A RECOMBINANT GLYCOPROTEIN BY Streptomyces lividans. Revista Mexicana De Ingeniera Quimica, 2019, 18, 1085-1099.	0.4	0
21	Shaken flasks by resonant acoustic mixing in the biosynthesis of alginate by <scp>Azotobacter vinelandii</scp> with nonâ€Newtonian rheological characteristics. Journal of Chemical Technology and Biotechnology, 2018, 93, 1159-1168.	3.2	2
22	Recombinant-phospholipase A2 production and architecture of inclusion bodies are affected by pH in Escherichia coli. International Journal of Biological Macromolecules, 2018, 108, 826-836.	7.5	12
23	The metabolic switch can be activated in a recombinant strain of Streptomyces lividans by a low oxygen transfer rate in shake flasks. Microbial Cell Factories, 2018, 17, 189.	4.0	12
24	Standard Instruments for Bioprocess Analysis and Control. , 2017, , 593-626.		3
25	Production of a recombinant phospholipase A2 in Escherichia coli using resonant acoustic mixing that improves oxygen transfer in shake flasks. Microbial Cell Factories, 2017, 16, 129.	4.0	16
26	Effect of Temperature Downshift on the Transcriptomic Responses of Chinese Hamster Ovary Cells Using Recombinant Human Tissue Plasminogen Activator Production Culture. PLoS ONE, 2016, 11, e0151529.	2.5	52
27	The flow inside shaking flasks and its implication for mycelial cultures. Chemical Engineering Science, 2016, 152, 163-171.	3.8	12
28	Shaken flasks by resonant acoustic mixing versus orbital mixing: Mass transfer coefficient kLa characterization and Escherichia coli cultures comparison. Biochemical Engineering Journal, 2016, 105, 379-390.	3.6	29
29	Positive effect of reduced aeration rate on growth and stereospecificity of dl-malic acid consumption by Azospirillum brasilense: Improving the shelf life of a liquid inoculant formulation. Journal of Biotechnology, 2015, 195, 74-81.	3.8	9
30	A hydrodynamic description of the flow behavior in shaken flasks. Biochemical Engineering Journal, 2015, 99, 61-66.	3.6	19
31	The production, molecular weight and viscosifying power of alginate produced by Azotobacter vinelandii is affected by the carbon source in submerged cultures. DYNA (Colombia), 2015, 82, 21-26.	0.4	3
32	Influence of pH control in the formation of inclusion bodies during production of recombinant sphingomyelinase-D in Escherichia coli. Microbial Cell Factories, 2014, 13, 137.	4.0	42
33	The role of volumetric power input in the growth, morphology, and production of a recombinant glycoprotein by Streptomyces lividans in shake flasks. Biochemical Engineering Journal, 2014, 90, 224-233.	3.6	9
34	Conservation of the mycelia of the medicinal mushroom Humphreya coffeata (Berk.) Stey. in sterile distilled water. MethodsX, 2014, 1, 19-22.	1.6	6
35	Scale-up from shake flasks to pilot-scale production of the plant growth-promoting bacterium Azospirillum brasilense for preparing a liquid inoculant formulation. Applied Microbiology and Biotechnology, 2013, 97, 9665-9674.	3.6	40
36	Scale-up from shake flasks to bioreactor, based on power input and Streptomyces lividans morphology, for the production of recombinant APA (45/47ÂkDa protein) from Mycobacterium tuberculosis. World Journal of Microbiology and Biotechnology, 2013, 29, 1421-1429.	3.6	19

#	Article	IF	Citations
37	Protection and reactivation of human methylmalonyl-CoA mutase by MMAA protein. Biochemical and Biophysical Research Communications, 2011, 404, 443-447.	2.1	30
38	The O-mannosylation and production of recombinant APA (45/47 KDa) protein from Mycobacterium tuberculosis in Streptomyces lividans is affected by culture conditions in shake flasks. Microbial Cell Factories, 2011, 10, 110.	4.0	18
39	Molecular responses ofE. colicaused by heat stress and recombinant protein production during temperature induction. Bioengineered Bugs, 2011, 2, 105-110.	1.7	23
40	Production of recombinant proteins in E. coli by the heat inducible expression system based on the phage lambda pL and/or pR promoters. Microbial Cell Factories, 2010, 9, 18.	4.0	130
41	The lack of a nitrogen source and/or the C/N ratio affects the molecular weight of alginate and its productivity in submerged cultures of Azotobacter vinelandii. Annals of Microbiology, 2010, 60, 661-668.	2.6	11
42	Mycelial Submerged Culture of New Medicinal Mushroom, Humphreya coffeata (Berk.) Stey. (Aphyllophoromycetideae) for the Production of Valuable Bioactive Metabolites with Cytotoxicity, Genotoxicity, and Antioxidant Activity. International Journal of Medicinal Mushrooms, 2009, 11, 335-350.	1.5	4
43	Production of Î²-galactosidase by Kluyveromyces marxianus under oscillating dissolved oxygen tension. Process Biochemistry, 2005, 40, 773-778.	3.7	34
44	The roles of oxygen and alginate-lyase in determining the molecular weight of alginate produced by Azotobacter vinelandii. Applied Microbiology and Biotechnology, 2004, 63, 742-747.	3.6	39
45	Components in the inoculum determine the kinetics of Azotobacter vinelandii cultures and the molecular weight of its alginate. Biotechnology Letters, 2003, 25, 1251-1254.	2.2	9
46	Alginate production by an Azotobacter vinelandii mutant unable to produce alginate lyase. Applied Microbiology and Biotechnology, 2003, 60, 733-737.	3.6	38
47	Effect of Oscillating Dissolved Oxygen Tension on the Production of Alginate by Azotobacter vinelandii. Biotechnology Progress, 2001, 17, 1042-1048.	2.6	53
48	Influence of dissolved oxygen tension and agitation speed on alginate production and its molecular weight in cultures of Azotobacter vinelandiiâ˜†. Enzyme and Microbial Technology, 2000, 27, 390-398.	3.2	109