

# Mauricio A Trujillo-Roldán

## List of Publications by Year in descending order

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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	Laccases: structure, function, and potential application in water bioremediation. <i>Microbial Cell Factories</i> , 2019, 18, 200.	4.0	269
2	Production of recombinant proteins in <i>E. coli</i> by the heat inducible expression system based on the phage lambda pL and/or pR promoters. <i>Microbial Cell Factories</i> , 2010, 9, 18.	4.0	130
3	Influence of dissolved oxygen tension and agitation speed on alginate production and its molecular weight in cultures of <i>Azotobacter vinelandii</i> . <i>Enzyme and Microbial Technology</i> , 2000, 27, 390-398.	3.2	109
4	Bacterial inclusion bodies are industrially exploitable amyloids. <i>FEMS Microbiology Reviews</i> , 2019, 43, 53-72.	8.6	77
5	Effect of Oscillating Dissolved Oxygen Tension on the Production of Alginate by <i>Azotobacter vinelandii</i> . <i>Biotechnology Progress</i> , 2001, 17, 1042-1048.	2.6	53
6	Effect of Temperature Downshift on the Transcriptomic Responses of Chinese Hamster Ovary Cells Using Recombinant Human Tissue Plasminogen Activator Production Culture. <i>PLoS ONE</i> , 2016, 11, e0151529.	2.5	52
7	Influence of pH control in the formation of inclusion bodies during production of recombinant sphingomyelinase-D in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2014, 13, 137.	4.0	42
8	Scale-up from shake flasks to pilot-scale production of the plant growth-promoting bacterium <i>Azospirillum brasilense</i> for preparing a liquid inoculant formulation. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 9665-9674.	3.6	40
9	The roles of oxygen and alginate-lyase in determining the molecular weight of alginate produced by <i>Azotobacter vinelandii</i> . <i>Applied Microbiology and Biotechnology</i> , 2004, 63, 742-747.	3.6	39
10	Alginate production by an <i>Azotobacter vinelandii</i> mutant unable to produce alginate lyase. <i>Applied Microbiology and Biotechnology</i> , 2003, 60, 733-737.	3.6	38
11	Integrative overview of antibodies against SARS-CoV-2 and their possible applications in COVID-19 prophylaxis and treatment. <i>Microbial Cell Factories</i> , 2021, 20, 88.	4.0	37
12	Production of $\beta$ -galactosidase by <i>Kluyveromyces marxianus</i> under oscillating dissolved oxygen tension. <i>Process Biochemistry</i> , 2005, 40, 773-778.	3.7	34
13	Protection and reactivation of human methylmalonyl-CoA mutase by MMAA protein. <i>Biochemical and Biophysical Research Communications</i> , 2011, 404, 443-447.	2.1	30
14	Shaken flasks by resonant acoustic mixing versus orbital mixing: Mass transfer coefficient $k_L a$ characterization and <i>Escherichia coli</i> cultures comparison. <i>Biochemical Engineering Journal</i> , 2016, 105, 379-390.	3.6	29
15	Molecular responses of <i>E. coli</i> caused by heat stress and recombinant protein production during temperature induction. <i>Bioengineered Bugs</i> , 2011, 2, 105-110.	1.7	23
16	Scale-up from shake flasks to bioreactor, based on power input and <i>Streptomyces lividans</i> morphology, for the production of recombinant APA (45/47 kDa protein) from <i>Mycobacterium tuberculosis</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 1421-1429.	3.6	19
17	A hydrodynamic description of the flow behavior in shaken flasks. <i>Biochemical Engineering Journal</i> , 2015, 99, 61-66.	3.6	19
18	The O-mannosylation and production of recombinant APA (45/47 kDa) protein from <i>Mycobacterium tuberculosis</i> in <i>Streptomyces lividans</i> is affected by culture conditions in shake flasks. <i>Microbial Cell Factories</i> , 2011, 10, 110.	4.0	18

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19	Nutrient supplementation strategy improves cell concentration and longevity, monoclonal antibody production and lactate metabolism of Chinese hamster ovary cells. <i>Bioengineered</i> , 2020, 11, 463-471.	3.2	18
20	Production of a recombinant phospholipase A2 in <i>Escherichia coli</i> using resonant acoustic mixing that improves oxygen transfer in shake flasks. <i>Microbial Cell Factories</i> , 2017, 16, 129.	4.0	16
21	<i>Bacillus velezensis</i> 83 increases productivity and quality of tomato ( <i>Solanum lycopersicum</i> L.): Pre and postharvest assessment. <i>Current Research in Microbial Sciences</i> , 2021, 2, 100076.	2.3	15
22	The flow inside shaking flasks and its implication for mycelial cultures. <i>Chemical Engineering Science</i> , 2016, 152, 163-171.	3.8	12
23	Recombinant-phospholipase A2 production and architecture of inclusion bodies are affected by pH in <i>Escherichia coli</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 108, 826-836.	7.5	12
24	The metabolic switch can be activated in a recombinant strain of <i>Streptomyces lividans</i> by a low oxygen transfer rate in shake flasks. <i>Microbial Cell Factories</i> , 2018, 17, 189.	4.0	12
25	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 <i>Azotobacter vinelandii</i> . <i>Annals of Microbiology</i> , 2010, 60, 661-668.	2.6	11
26	Recombinant production of ESAT-6 antigen in thermoinducible <i>Escherichia coli</i> : the role of culture scale and temperature on metabolic response, expression of chaperones, and architecture of inclusion bodies. <i>Cell Stress and Chaperones</i> , 2019, 24, 777-792.	2.9	11
27	Comparison of protein precipitation methods for sample preparation prior to proteomic analysis of Chinese hamster ovary cell homogenates. <i>Electronic Journal of Biotechnology</i> , 2020, 48, 86-94.	2.2	10
28	Components in the inoculum determine the kinetics of <i>Azotobacter vinelandii</i> cultures and the molecular weight of its alginate. <i>Biotechnology Letters</i> , 2003, 25, 1251-1254.	2.2	9
29	The role of volumetric power input in the growth, morphology, and production of a recombinant glycoprotein by <i>Streptomyces lividans</i> in shake flasks. <i>Biochemical Engineering Journal</i> , 2014, 90, 224-233.	3.6	9
30	Positive effect of reduced aeration rate on growth and stereospecificity of dl-malic acid consumption by <i>Azospirillum brasilense</i> : Improving the shelf life of a liquid inoculant formulation. <i>Journal of Biotechnology</i> , 2015, 195, 74-81.	3.8	9
31	Recombinant O-mannosylated protein production (PstS-1) from <i>Mycobacterium tuberculosis</i> in <i>Pichia pastoris</i> ( <i>Komagataella phaffii</i> ) as a tool to study tuberculosis infection. <i>Microbial Cell Factories</i> , 2019, 18, 11.	4.0	9
32	Thermoinducible expression system for producing recombinant proteins in <i>Escherichia coli</i> : advances and insights. <i>FEMS Microbiology Reviews</i> , 2021, 45, .	8.6	9
33	Compartmentalized Proteomic Profiling Outlines the Crucial Role of the Classical Secretory Pathway during Recombinant Protein Production in Chinese Hamster Ovary Cells. <i>ACS Omega</i> , 2021, 6, 12439-12458.	3.5	9
34	Conservation of the mycelia of the medicinal mushroom <i>Humphreya coffeata</i> (Berk.) Stey. in sterile distilled water. <i>MethodsX</i> , 2014, 1, 19-22.	1.6	6
35	The pre-induction temperature affects recombinant HuGM-CSF aggregation in thermoinducible <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 2883-2902.	3.6	6
36	Oxygen transfer rate affect polyhydroxybutyrate production and oxidative stress response in submerged cultures of <i>Rhizobium phaseoli</i> . <i>Biochemical Engineering Journal</i> , 2020, 162, 107721.	3.6	4

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37	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
38	Mycelial Submerged Culture of New Medicinal Mushroom, <i>Humphreya coffeata</i> (Berk.) Stey. (Aphyllphoromycetideae) 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
39	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
40	Standard Instruments for Bioprocess Analysis and Control. , 2017, , 593-626.		3
41	The production, molecular weight and viscosifying power of alginate produced by <i>Azotobacter vinelandii</i> is affected by the carbon source in submerged cultures. DYNA (Colombia), 2015, 82, 21-26.	0.4	3
42	Computational Design of Inhibitors Targeting the Catalytic $\hat{1}^2$ Subunit of <i>Escherichia coli</i> FOF1-ATP Synthase. Antibiotics, 2022, 11, 557.	3.7	3
43	Shaken flasks by resonant acoustic mixing in the biosynthesis of alginate by <i>Azotobacter vinelandii</i> with non-Newtonian rheological characteristics. Journal of Chemical Technology and Biotechnology, 2018, 93, 1159-1168.	3.2	2
44	Modeling the interaction between the central carbon metabolism of <i>Escherichia coli</i> and bioreactor culture media. Biochemical Engineering Journal, 2020, 163, 107753.	3.6	2
45	From field sampling to pneumatic bioreactor mycelia production of the ectomycorrhizal mushroom <i>Laccaria trichodermophora</i> . Fungal Biology, 2020, 124, 205-218.	2.5	2
46	Quercetin and 1-methyl-2-oxindole mimic root signaling that promotes spore germination and mycelial growth of <i>Gigaspora margarita</i> . Mycorrhiza, 2022, 32, 177-191.	2.8	2
47	VOLUMETRIC POWER INPUT AS A RELIABLE PARAMETER FOR SCALE-UP FROM SHAKE FLASK TO STIRRED-TANK BIOREACTOR: PRODUCTION OF A RECOMBINANT GLYCOPROTEIN BY <i>Streptomyces lividans</i> . Revista Mexicana De Ingeniera Quimica, 2019, 18, 1085-1099.	0.4	0
48	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