

Antonio Valle

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

203
citations

1162367

8
h-index

1058022

14
g-index

19
all docs

19
docs citations

19
times ranked

173
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic engineering for the optimization of hydrogen production in Escherichia coli: A review. <i>Biotechnology Advances</i> , 2019, 37, 616-633.	6.0	29
2	Progressive change from nitrate to nitrite as the electron acceptor for the oxidation of H ₂ S under feedback control in an anoxic biotrickling filter. <i>Biochemical Engineering Journal</i> , 2018, 139, 154-161.	1.8	23
3	Identification of enhanced hydrogen and ethanol Escherichia coli producer strains in a glycerol-based medium by screening in single-knock out mutant collections. <i>Microbial Cell Factories</i> , 2015, 14, 93.	1.9	22
4	A comparative study of eubacterial communities by PCR-DGGE fingerprints in anoxic and aerobic biotrickling filters used for biogas desulfurization. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 1165-1175.	1.7	21
5	Study of the role played by NfsA, NfsB nitroreductase and NemaA flavin reductase from Escherichia coli in the conversion of ethyl 2-(2-nitrophenoxy)acetate to 4-hydroxy-(2H)-1,4-benzoxazin-3(4H)-one (D-DIBOA), a benzohydroxamic acid with interesting biological properties. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 163-171.	1.7	18
6	A systematic analysis of TCA <i>Escherichia coli</i> mutants reveals suitable genetic backgrounds for enhanced hydrogen and ethanol production using glycerol as main carbon source. <i>Biotechnology Journal</i> , 2015, 10, 1750-1761.	1.8	16
7	Characterization of eubacterial communities by Denaturing Gradient Gel Electrophoresis (DGGE) and Next Generation Sequencing (NGS) in a desulfurization biotrickling filter using progressive changes of nitrate and nitrite as final electron acceptors. <i>New Biotechnology</i> , 2020, 57, 67-75.	2.4	11
8	Escherichia coli Dcu C4-dicarboxylate transporters dependent proton and potassium fluxes and FOF1-ATPase activity during glucose fermentation at pH 7.5. <i>Bioelectrochemistry</i> , 2021, 141, 107867.	2.4	8
9	Biotransformation of ethyl 2-(2-nitrophenoxy)acetate to benzohydroxamic acid (D-DIBOA) by Escherichia coli. <i>Process Biochemistry</i> , 2011, 46, 358-364.	1.8	7
10	Heterologous expression of the human Phosphoenol Pyruvate Carboxykinase (hPEPCK-M) improves hydrogen and ethanol synthesis in the Escherichia coli dcuD mutant when grown in a glycerol-based medium. <i>New Biotechnology</i> , 2017, 35, 1-12.	2.4	7
11	Evidence for Escherichia coli DcuD carrier dependent FOF1-ATPase activity during fermentation of glycerol. <i>Scientific Reports</i> , 2019, 9, 4279.	1.6	7
12	A genetically engineered Escherichia coli strain overexpressing the nitroreductase NfsB is capable of producing the herbicide D-DIBOA with 100% molar yield. <i>Microbial Cell Factories</i> , 2019, 18, 86.	1.9	6
13	Overexpression of the nitroreductase NfsB in an E. coli strain as a whole-cell biocatalyst for the production of chlorinated analogues of the natural herbicide DIBOA. <i>New Biotechnology</i> , 2019, 50, 9-19.	2.4	6
14	Co-overexpression of the malate dehydrogenase (Mdh) and the malic enzyme A (MaeA) in several Escherichia coli mutant backgrounds increases malate redirection towards hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 15337-15350.	3.8	5
15	Characterization of Bacterial and Archaeal Communities by DGGE and Next Generation Sequencing (NGS) of Nitrification Bioreactors Using Two Different Intermediate Landfill Leachates as Ammonium Substrate. <i>Waste and Biomass Valorization</i> , 2022, 13, 3753-3766.	1.8	5
16	Nickel and Cobalt Removal Capacities of Native Metal-Resistant Bacteria. <i>Advanced Materials Research</i> , 2009, 71-73, 617-620.	0.3	4
17	Identification of Enzymatic Bottlenecks for the Aerobic Production of Malate from Glycerol by the Systematic Gene Overexpression of Anaplerotic Enzymes in Escherichia coli. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2266.	1.8	3
18	Escherichia coli, the workhorse cell factory for the production of chemicals. , 2021, , 115-137.		3

#	ARTICLE	IF	CITATIONS
19	Optimization of the Biocatalysis for D-DIBOA Synthesis Using a Quick and Sensitive New Spectrophotometric Quantification Method. International Journal of Molecular Sciences, 2020, 21, 8523.	1.8	2