Ana Serrano

List of Publications by Year
in descending order

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27	894	516710 16	552781 26
papers	citations	h-index	g-index

28	28	28	1124
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genomic Analysis Enlightens Agaricales Lifestyle Evolution and Increasing Peroxidase Diversity. Molecular Biology and Evolution, 2021, 38, 1428-1446.	8.9	72
2	Early-stage sustainability assessment of enzyme production in the framework of lignocellulosic biorefinery. Journal of Cleaner Production, 2021, 285, 125461.	9.3	12
3	Optimizing operational parameters for the enzymatic production of furandicarboxylic acid building block. Microbial Cell Factories, 2021, 20, 180.	4.0	6
4	Insights into the FMNAT Active Site of FAD Synthase: Aromaticity Is Essential for Flavin Binding and Catalysis. International Journal of Molecular Sciences, 2020, 21, 3738.	4.1	2
5	Screening and Evaluation of New Hydroxymethylfurfural Oxidases for Furandicarboxylic Acid Production. Applied and Environmental Microbiology, 2020, 86, .	3.1	20
6	Genome sequencing of Rigidoporus microporus provides insights on genes important for wood decay, latex tolerance and interspecific fungal interactions. Scientific Reports, 2020, 10, 5250.	3.3	16
7	Reaction mechanisms and applications of aryl-alcohol oxidase. The Enzymes, 2020, 47, 167-192.	1.7	12
8	Specific Features for the Competent Binding of Substrates at the FMN Adenylyltransferase Site of FAD Synthase from Corynebacterium ammoniagenes. International Journal of Molecular Sciences, 2019, 20, 5083.	4.1	4
9	Complete oxidation of hydroxymethylfurfural to furandicarboxylic acid by aryl-alcohol oxidase. Biotechnology for Biofuels, 2019, 12, 217.	6.2	50
10	Switching the substrate preference of fungal aryl-alcohol oxidase: towards stereoselective oxidation of secondary benzyl alcohols. Catalysis Science and Technology, 2019, 9, 833-841.	4.1	17
11	Structureâ€Guided Evolution of Aryl Alcohol Oxidase from Pleurotus eryngii for the Selective Oxidation of Secondary Benzyl Alcohols. Advanced Synthesis and Catalysis, 2019, 361, 2514.	4.3	27
12	The Dimer-of-Trimers Assembly Prevents Catalysis at the Transferase Site of Prokaryotic FAD Synthase. Biophysical Journal, 2018, 115, 988-995.	0.5	11
13	Oxidoreductases on their way to industrial biotransformations. Biotechnology Advances, 2017, 35, 815-831.	11.7	205
14	Kinetics and thermodynamics of the protein-ligand interactions in the riboflavin kinase activity of the FAD synthetase from Corynebacterium ammoniagenes. Scientific Reports, 2017, 7, 7281.	3.3	14
15	The FAD synthetase from the human pathogen Streptococcus pneumoniae: a bifunctional enzyme exhibiting activity-dependent redox requirements. Scientific Reports, 2017, 7, 7609.	3.3	19
16	The trimer interface in the quaternary structure of the bifunctional prokaryotic FAD synthetase from Corynebacterium ammoniagenes. Scientific Reports, 2017, 7, 404.	3.3	16
17	Fungal Aryl-Alcohol Oxidase in Lignocellulose Degradation and Bioconversion. Biofuel and Biorefinery Technologies, 2016, , 301-322.	0.3	9
18	5â€hydroxymethylfurfural conversion by fungal arylâ€alcohol oxidase and unspecific peroxygenase. FEBS Journal, 2015, 282, 3218-3229.	4.7	132

#	Article	IF	Citations
19	Quaternary organization in a bifunctional prokaryotic FAD synthetase: Involvement of an arginine at its adenylyltransferase module on the riboflavin kinase activity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 897-906.	2.3	18
20	A survey of genes encoding H2O2-producing GMC oxidoreductases in 10 Polyporales genomes. Mycologia, 2015, 107, 1105-1119.	1.9	53
21	Key Residues at the Riboflavin Kinase Catalytic Site of the Bifunctional Riboflavin Kinase/FMN Adenylyltransferase From Corynebacterium ammoniagenes. Cell Biochemistry and Biophysics, 2013, 65, 57-68.	1.8	20
22	The Prokaryotic FAD Synthetase Family: A Potential Drug Target. Current Pharmaceutical Design, 2013, 19, 2637-2648.	1.9	31
23	Role of Key Residues at the Flavin Mononucleotide (FMN):Adenylyltransferase Catalytic Site of the Bifunctional Riboflavin Kinase/Flavin Adenine Dinucleotide (FAD) Synthetase from Corynebacterium ammoniagenes. International Journal of Molecular Sciences, 2012, 13, 14492-14517.	4.1	29
24	Fast Kinetic Methods with Photodiode Array Detection in the Study of the Interaction and Electron Transfer Between Flavodoxin and Ferredoxin NADP+-Reductase. , 2012, , .		2
25	Structural analysis of FAD synthetase from Corynebacterium ammoniagenes. BMC Microbiology, 2008, 8, 160.	3.3	43
26	Flavodoxin-Mediated Electron Transfer from Photosystem I to Ferredoxin-NADP⁺ Reductase in Anabaenaâ€‰ Role of Flavodoxin Hydrophobic Residues in Proteinâ^'Protein Interactions. Biochemistry, 2008, 47, 1207-1217.	2.5	30
27	Tuning of the FMN binding and oxido-reduction properties by neighboring side chains in Anabaena flavodoxin. Archives of Biochemistry and Biophysics, 2007, 467, 206-217.	3.0	24