

Ana Serrano

List of Publications by Year in descending order

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27
papers

894
citations

516710

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28
docs citations

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times ranked

1124
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidoreductases on their way to industrial biotransformations. <i>Biotechnology Advances</i> , 2017, 35, 815-831.	11.7	205
2	5-Hydroxymethylfurfural conversion by fungal aryl-alcohol oxidase and unspecific peroxygenase. <i>FEBS Journal</i> , 2015, 282, 3218-3229.	4.7	132
3	Genomic Analysis Enlightens Agaricales Lifestyle Evolution and Increasing Peroxidase Diversity. <i>Molecular Biology and Evolution</i> , 2021, 38, 1428-1446.	8.9	72
4	A survey of genes encoding H ₂ O ₂ -producing GMC oxidoreductases in 10 Polyporales genomes. <i>Mycologia</i> , 2015, 107, 1105-1119.	1.9	53
5	Complete oxidation of hydroxymethylfurfural to furandicarboxylic acid by aryl-alcohol oxidase. <i>Biotechnology for Biofuels</i> , 2019, 12, 217.	6.2	50
6	Structural analysis of FAD synthetase from <i>Corynebacterium ammoniagenes</i> . <i>BMC Microbiology</i> , 2008, 8, 160.	3.3	43
7	The Prokaryotic FAD Synthetase Family: A Potential Drug Target. <i>Current Pharmaceutical Design</i> , 2013, 19, 2637-2648.	1.9	31
8	Flavodoxin-Mediated Electron Transfer from Photosystem I to Ferredoxin-NADP ⁺ Reductase in <i>Anabaena</i> : Role of Flavodoxin Hydrophobic Residues in Protein-Protein Interactions. <i>Biochemistry</i> , 2008, 47, 1207-1217.	2.5	30
9	Role of Key Residues at the Flavin Mononucleotide (FMN):Adenylyltransferase Catalytic Site of the Bifunctional Riboflavin Kinase/Flavin Adenine Dinucleotide (FAD) Synthetase from <i>Corynebacterium ammoniagenes</i> . <i>International Journal of Molecular Sciences</i> , 2012, 13, 14492-14517.	4.1	29
10	Structure-Guided Evolution of Aryl Alcohol Oxidase from <i>Pleurotus eryngii</i> for the Selective Oxidation of Secondary Benzyl Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2514.	4.3	27
11	Tuning of the FMN binding and oxido-reduction properties by neighboring side chains in <i>Anabaena</i> flavodoxin. <i>Archives of Biochemistry and Biophysics</i> , 2007, 467, 206-217.	3.0	24
12	Key Residues at the Riboflavin Kinase Catalytic Site of the Bifunctional Riboflavin Kinase/FMN Adenylyltransferase From <i>Corynebacterium ammoniagenes</i> . <i>Cell Biochemistry and Biophysics</i> , 2013, 65, 57-68.	1.8	20
13	Screening and Evaluation of New Hydroxymethylfurfural Oxidases for Furandicarboxylic Acid Production. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	20
14	The FAD synthetase from the human pathogen <i>Streptococcus pneumoniae</i> : a bifunctional enzyme exhibiting activity-dependent redox requirements. <i>Scientific Reports</i> , 2017, 7, 7609.	3.3	19
15	Quaternary organization in a bifunctional prokaryotic FAD synthetase: Involvement of an arginine at its adenylyltransferase module on the riboflavin kinase activity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 897-906.	2.3	18
16	Switching the substrate preference of fungal aryl-alcohol oxidase: towards stereoselective oxidation of secondary benzyl alcohols. <i>Catalysis Science and Technology</i> , 2019, 9, 833-841.	4.1	17
17	The trimer interface in the quaternary structure of the bifunctional prokaryotic FAD synthetase from <i>Corynebacterium ammoniagenes</i> . <i>Scientific Reports</i> , 2017, 7, 404.	3.3	16
18	Genome sequencing of <i>Rigidoporus microporus</i> provides insights on genes important for wood decay, latex tolerance and interspecific fungal interactions. <i>Scientific Reports</i> , 2020, 10, 5250.	3.3	16

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19	Kinetics and thermodynamics of the protein-ligand interactions in the riboflavin kinase activity of the FAD synthetase from <i>Corynebacterium ammoniagenes</i> . <i>Scientific Reports</i> , 2017, 7, 7281.	3.3	14
20	Early-stage sustainability assessment of enzyme production in the framework of lignocellulosic biorefinery. <i>Journal of Cleaner Production</i> , 2021, 285, 125461.	9.3	12
21	Reaction mechanisms and applications of aryl-alcohol oxidase. <i>The Enzymes</i> , 2020, 47, 167-192.	1.7	12
22	The Dimer-of-Trimers Assembly Prevents Catalysis at the Transferase Site of Prokaryotic FAD Synthase. <i>Biophysical Journal</i> , 2018, 115, 988-995.	0.5	11
23	Fungal Aryl-Alcohol Oxidase in Lignocellulose Degradation and Bioconversion. <i>Biofuel and Biorefinery Technologies</i> , 2016, , 301-322.	0.3	9
24	Optimizing operational parameters for the enzymatic production of furandicarboxylic acid building block. <i>Microbial Cell Factories</i> , 2021, 20, 180.	4.0	6
25	Specific Features for the Competent Binding of Substrates at the FMN Adenylyltransferase Site of FAD Synthase from <i>Corynebacterium ammoniagenes</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 5083.	4.1	4
26	Fast Kinetic Methods with Photodiode Array Detection in the Study of the Interaction and Electron Transfer Between Flavodoxin and Ferredoxin NADP+-Reductase. , 2012, , .		2
27	Insights into the FMNAT Active Site of FAD Synthase: Aromaticity Is Essential for Flavin Binding and Catalysis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3738.	4.1	2