

Ricardo Cabrera

List of Publications by Year in descending order

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31
papers

467
citations

687363

13
h-index

752698

20
g-index

31
all docs

31
docs citations

31
times ranked

673
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering an acetoacetyl-CoA reductase from <i>Cupriavidus necator</i> toward NADH preference under physiological conditions. <i>Scientific Reports</i> , 2022, 12, 3757.	3.3	6
2	An NADH preferring acetoacetyl-CoA reductase is engaged in poly-3-hydroxybutyrate accumulation in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2021, 325, 207-216.	3.8	9
3	Comparative characterization of the hemocyanin-derived phenol oxidase activity from spiders inhabiting different thermal habitats. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2021, 253, 110548.	1.6	1
4	Deletion and Randomization of Structurally Variable Regions in <i>B. subtilis</i> Lipase A (BSLA) Alter Its Stability and Hydrolytic Performance Against Long Chain Fatty Acid Esters. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1990.	4.1	6
5	Functional characterisation and in silico modelling of MdPSY2 variants and MdPSY5 phytoene synthases from <i>Malus domestica</i> . <i>Journal of Plant Physiology</i> , 2020, 249, 153166.	3.5	8
6	<p>Fluorescence enzymatic assay for bacterial polyphosphate kinase 1 (PPK1) as a platform for screening antivirulence molecules</p>. <i>Infection and Drug Resistance</i> , 2019, Volume 12, 2237-2242.	2.7	3
7	Surfaces based on amino acid functionalized polyelectrolyte films towards active surfaces for enzyme immobilization. <i>Materials Science and Engineering C</i> , 2019, 104, 109938.	7.3	7
8	Studying the phosphoryl transfer mechanism of the<i>E. coli</i>phosphofructokinase-2: from X-ray structure to quantum mechanics/molecular mechanics simulations. <i>Chemical Science</i> , 2019, 10, 2882-2892.	7.4	15
9	Cold tolerance mechanisms of two arthropods from the Andean Range of Central Chile: <i>Agathemera crassa</i> (Insecta: Agathemeridae) and <i>Euathlus condorito</i> (Arachnida: Theraphosidae). <i>Journal of Thermal Biology</i> , 2018, 74, 133-139.	2.5	16
10	Understanding the impact of the cofactor swapping of isocitrate dehydrogenase over the growth phenotype of <i>Escherichia coli</i> on acetate by using constraint-based modeling. <i>PLoS ONE</i> , 2018, 13, e0196182.	2.5	12
11	Inorganic Polyphosphate, Exopolyphosphatase, and<i>Pho84</i>-Like Transporters May Be Involved in Copper Resistance in<i>Metallosphaera sedula</i>DSM 5348^T. <i>Archaea</i> , 2018, 2018, 1-12.	2.3	36
12	Multi-level evaluation of <i>Escherichia coli</i> polyphosphate related mutants using global transcriptomic, proteomic and phenomic analyses. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 871-883.	2.4	21
13	Datasets for transcriptomics, q-proteomics and phenotype microarrays of polyphosphate metabolism mutants from <i>Escherichia coli</i> . <i>Data in Brief</i> , 2017, 12, 13-17.	1.0	2
14	<i>Dictyostelium discoideum</i> as a surrogate host“microbe model for antivirulence screening in <i>Pseudomonas aeruginosa</i> PAO1. <i>International Journal of Antimicrobial Agents</i> , 2016, 47, 403-409.	2.5	30
15	Determinants of Cofactor Specificity for the Glucose-6-Phosphate Dehydrogenase from <i>Escherichia coli</i> : Simulation, Kinetics and Evolutionary Studies. <i>PLoS ONE</i> , 2016, 11, e0152403.	2.5	19
16	Polyol specificity of recombinant <i>Arabidopsis thaliana</i> sorbitol dehydrogenase studied by enzyme kinetics and in silico modeling. <i>Frontiers in Plant Science</i> , 2015, 6, 91.	3.6	8
17	Sorbitol dehydrogenase is a cytosolic protein required for sorbitol metabolism in <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2013, 205-206, 63-75.	3.6	45
18	A Ribokinase Family Conserved Monovalent Cation Binding Site Enhances the MgATP-induced Inhibition in <i>E. coli</i> Phosphofructokinase-2. <i>Biophysical Journal</i> , 2013, 105, 185-193.	0.5	11

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19	Modeling the Interfacial Interactions between CrtS and CrtR from <i>Xanthophyllomyces dendrorhous</i> , a P450 System Involved in Astaxanthin Production. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 8640-8647.	5.2	19
20	The cofactor preference of glucose-6-phosphate dehydrogenase from <i>Escherichia coli</i> modeling the physiological production of reduced cofactors. <i>FEBS Journal</i> , 2012, 279, 2296-2309.	4.7	31
21	The Crystal Complex of Phosphofructokinase-2 of <i>Escherichia coli</i> with Fructose-6-phosphate. <i>Journal of Biological Chemistry</i> , 2011, 286, 5774-5783.	3.4	26
22	Ribokinase family evolution and the role of conserved residues at the active site of the PfkB subfamily representative, Pfk-2 from <i>Escherichia coli</i> . <i>Archives of Biochemistry and Biophysics</i> , 2010, 502, 23-30.	3.0	32
23	Crystallographic Structure of Phosphofructokinase-2 from <i>Escherichia coli</i> in Complex with Two ATP Molecules. Implications for Substrate Inhibition. <i>Journal of Molecular Biology</i> , 2008, 383, 588-602.	4.2	26
24	Unfolding Pathway of the Dimeric and Tetrameric Forms of Phosphofructokinase-2 from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2007, 46, 6141-6148.	2.5	12
25	Evidence for a Catalytic Mg ²⁺ Ion and Effect of Phosphate on the Activity of <i>Escherichia coli</i> Phosphofructokinase-2: Regulatory Properties of a Ribokinase Family Member. <i>Biochemistry</i> , 2006, 45, 9291-9299.	2.5	30
26	Crystallization and preliminary crystallographic analysis of the tetrameric form of phosphofructokinase-2 from <i>Escherichia coli</i> , a member of the ribokinase family. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 935-937.	0.7	2
27	Role of Cys-295 on subunit interactions and allosteric regulation of phosphofructokinase-2 from <i>Escherichia coli</i> . <i>FEBS Letters</i> , 2005, 579, 2313-2318.	2.8	11
28	Undergraduate teaching of evolution in Chile: more than natural selection. <i>Revista Chilena De Historia Natural</i> , 2005, 78, .	1.2	0
29	Domain Motions and Quaternary Packing of Phosphofructokinase-2 from <i>Escherichia coli</i> Studied by Small Angle X-ray Scattering and Homology Modeling. <i>Journal of Biological Chemistry</i> , 2003, 278, 12913-12919.	3.4	13
30	Ligand-dependent structural changes and limited proteolysis of <i>Escherichia coli</i> phosphofructokinase-2. <i>Archives of Biochemistry and Biophysics</i> , 2002, 406, 289-295.	3.0	8
31	Crystal structure of the 6-phosphogluconate dehydrogenase from <i>Gluconobacter oxydans</i> reveals tetrameric 6PGDHs as the crucial intermediate in the evolution of structure and cofactor preference in the 6PGDH family. <i>Wellcome Open Research</i> , 0, 6, 48.	1.8	2