Victoria Guixe

List of Publications by Year
in descending order

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55	733	516561	642610
papers	citations	16 h-index	23 g-index

56	56	56	550
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fructose bisphosphatase from Escherichia coli. Purification and characterization. Archives of Biochemistry and Biophysics, 1983, 225, 944-949.	1.4	42
2	The ADPâ€dependent sugar kinase family: Kinetic and evolutionary aspects. IUBMB Life, 2009, 61, 753-761.	1.5	42
3	A mutant phosphofructokinase produces a futile cycle during gluconeogenesis in Escherichia coli. Biochemical Journal, 1997, 327, 675-684.	1.7	37
4	Ribokinase family evolution and the role of conserved residues at the active site of the PfkB subfamily representative, Pfk-2 from Escherichia coli. Archives of Biochemistry and Biophysics, 2010, 502, 23-30.	1.4	32
5	Evidence for a Catalytic Mg2+ Ion and Effect of Phosphate on the Activity of Escherichia coli Phosphofructokinase-2:â€‰ Regulatory Properties of a Ribokinase Family Member. Biochemistry, 2006, 45, 9291-9299.	1.2	30
6	Ligand-Induced Conformational Transitions inEscherichiacoliPhosphofructokinase 2:Â Evidence for an Allosteric Site for MgATP2-Ââ€. Biochemistry, 1998, 37, 13269-13275.	1.2	29
7	An Alteration in Phosphofructokinase 2 of Escherichia coli which Impairs Gluconeogenic Growth and Improves Growth on Sugars. FEBS Journal, 1982, 126, 373-379.	0.2	26
8	Crystallographic Structure of Phosphofructokinase-2 from Escherichia coli in Complex with Two ATP Molecules. Implications for Substrate Inhibition. Journal of Molecular Biology, 2008, 383, 588-602.	2.0	26
9	Crystal Structure, SAXS and Kinetic Mechanism of Hyperthermophilic ADP-Dependent Glucokinase from Thermococcus litoralis Reveal a Conserved Mechanism for Catalysis. PLoS ONE, 2013, 8, e66687.	1.1	26
10	Effect of ATP on phosphofructokinase-2 from Escherichia coli. A mutant enzyme altered in the allosteric site for MgATP. Journal of Biological Chemistry, 1985, 260, 11001-5.	1.6	26
11	Reconstructed ancestral enzymes reveal that negative selection drove the evolution of substrate specificity in ADP-dependent kinases. Journal of Biological Chemistry, 2017, 292, 15598-15610.	1.6	22
12	Influence of ligands on the aggregation of the normal and mutant forms of phosphofructokinase 2 of Escherichia coli. Archives of Biochemistry and Biophysics, 1988, 264, 519-524.	1.4	21
13	ADP-dependent 6-Phosphofructokinase from Pyrococcus horikoshii OT3. Journal of Biological Chemistry, 2009, 284, 22664-22671.	1.6	21
14	Kinetic mechanism of phosphofructokinase-2 from Escherichia coli. A mutant enzyme with a different mechanism. Journal of Biological Chemistry, 1984, 259, 6147-52.	1.6	21
15	Bifunctional <scp>ADP</scp>â€dependent phosphofructokinase/glucokinase activity in the order <scp>M</scp>ethanococcales â€“ biochemical characterization of the mesophilic enzyme from <scp>M</scp>ethanococcusÂmaripaludis. FEBS Journal, 2014, 281, 2017-2029.	2.2	20
16	Specificity evolution of the ADPâ€dependent sugar kinase familyâ€ƒâ€“inâ€ƒsilico studies of the glucokinase/phosphofructokinase bifunctional enzyme from Methanocaldococcusâ€ƒjannaschii. FEBS Journal, 2008, 275, 4033-4044.	2.2	18
17	Glycogen synthesis in amphibian oocytes: evidence for an indirect pathway. Biochemical Journal, 1996, 315, 455-460.	1.7	17
18	Identifying Sequential Substrate Binding at the Single-Molecule Level by Enzyme Mechanical Stabilization. ACS Nano, 2015, 9, 3996-4005.	7.3	16

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19	Dissecting the functional roles of the conserved NXXE and HXE motifs of the ADPâ€dependent glucokinase fromThermococcus litoralis. FEBS Letters, 2015, 589, 3271-3276.	1.3	15
20	ADP-dependent phosphofructokinases from the archaeal order Methanosarcinales display redundant glucokinase activity. Archives of Biochemistry and Biophysics, 2017, 633, 85-92.	1.4	14
21	Domain Motions and Quaternary Packing of Phosphofructokinase-2 from Escherichia coli Studied by Small Angle X-ray Scattering and Homology Modeling. Journal of Biological Chemistry, 2003, 278, 12913-12919.	1.6	13
22	Unfolding Pathway of the Dimeric and Tetrameric Forms of Phosphofructokinase-2 from Escherichia coli. Biochemistry, 2007, 46, 6141-6148.	1.2	12
23	Catalytic and regulatory roles of divalent metal cations on the phosphoryl-transfer mechanism of ADP-dependent sugar kinases from hyperthermophilic archaea. Biochimie, 2012, 94, 516-524.	1.3	12
24	Role of monovalent and divalent metal cations in human ribokinase catalysis and regulation. BioMetals, 2015, 28, 401-413.	1.8	12
25	Role of Cys-295 on subunit interactions and allosteric regulation of phosphofructokinase-2 fromEscherichia coli. FEBS Letters, 2005, 579, 2313-2318.	1.3	11
26	Observation of Solvent Penetration during Cold Denaturation of E.Âcoli Phosphofructokinase-2. Biophysical Journal, 2013, 104, 2254-2263.	0.2	11
27	A Ribokinase Family Conserved Monovalent Cation Binding Site Enhances the MgATP-induced Inhibition in E.Âcoli Phosphofructokinase-2. Biophysical Journal, 2013, 105, 185-193.	0.2	11
28	Divalent metal cation requirements of phosphofructokinase-2 from E. coli. Evidence for a high affinity binding site for Mn2+. Archives of Biochemistry and Biophysics, 2011, 505, 60-66.	1.4	10
29	In vivo operation of the pentose phosphate pathway in frog oocytes is limited by NADP+availability. FEBS Letters, 1999, 446, 149-152.	1.3	9
30	Emergence of pyridoxal phosphorylation through a promiscuous ancestor during the evolution of hydroxymethyl pyrimidine kinases. FEBS Letters, 2014, 588, 3068-3073.	1.3	9
31	Chemical Modification of SH Groups of E. coli Phosphofructokinase-2 Induces Subunit Dissociation: Monomers Are Inactive but Preserve Ligand Binding Properties. Archives of Biochemistry and Biophysics, 2000, 376, 313-319.	1.4	8
32	Ligand-dependent structural changes and limited proteolysis of Escherichia coli phosphofructokinase-2. Archives of Biochemistry and Biophysics, 2002, 406, 289-295.	1.4	8
33	Expanded Monomeric Intermediate upon Cold and Heat Unfolding of Phosphofructokinase-2 from Escherichia coli. Biophysical Journal, 2012, 103, 2187-2194.	0.2	8
34	Catalytic and regulatory roles of species involved in metalâ€“nucleotide equilibriums in human pyridoxal kinase. BioMetals, 2013, 26, 805-812.	1.8	8
35	The Folding Unit of Phosphofructokinase-2 as Defined by the Biophysical Properties of a Monomeric Mutant. Biophysical Journal, 2015, 108, 2350-2361.	0.2	8
36	Fructose-1,6-bisphosphatase in Stage VI Frog Oocytes: Evidence for an Active Enzyme in Vivo. Archives of Biochemistry and Biophysics, 1995, 316, 555-560.	1.4	7

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37	A New Method of Assessing Rates of the Futile Cycle during Glycolytic and Gluconeogenic Metabolism. Archives of Biochemistry and Biophysics, 1995, 321, 517-525.	1.4	7
38	Protein topology determines substrate-binding mechanism in homologous enzymes. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 2869-2878.	1.1	7
39	ADP-Dependent Kinases From the Archaeal Order Methanosarcinales Adapt to Salt by a Non-canonical Evolutionarily Conserved Strategy. Frontiers in Microbiology, 2018, 9, 1305.	1.5	7
40	Tuning of Conformational Dynamics Through Evolution-Based Design Modulates the Catalytic Adaptability of an Extremophilic Kinase. ACS Catalysis, 2020, 10, 10847-10857.	5.5	7
41	Regulatory Role of Fructose-2,6-bisP on Glucose Metabolism in Frog Oocytes:In VivoInhibition of Glycogen Synthesis. Archives of Biochemistry and Biophysics, 1997, 348, 75-81.	1.4	6
42	Characterization of hydroxymethylpyrimidine phosphate kinase from mesophilic and thermophilic bacteria and structural insights into their differential thermal stability. Archives of Biochemistry and Biophysics, 2020, 688, 108389.	1.4	6
43	Phylogenetic and ontogenetic studies of glucose phosphorylating isozymes of vertebrates. Archivos De BiologÃa Y Medicina Experimentales, 1979, 12, 587-604.	0.0	6
44	Glycolysis is operative in amphibian oocytes. FEBS Letters, 1994, 343, 219-222.	1.3	5
45	Structure of an ancestral ADP-dependent kinase with fructose-6P reveals key residues for binding, catalysis, and ligand-induced conformational changes. Journal of Biological Chemistry, 2021, 296, 100219.	1.6	4
46	Evolution, Metabolism and Molecular Mechanisms Underlying Extreme Adaptation of Euryarchaeota and Its Biotechnological Potential. , 0, , .		3
47	Crystal structure and molecular dynamics simulations of a promiscuous ancestor reveal residues and an epistatic interaction involved in substrate binding and catalysis in the ATPâ€dependent vitamin kinase family members. Protein Science, 2021, 30, 842-854.	3.1	3
48	Structural and functional roles of Cys-238 and Cys-295 in Escherichia coli phosphofructokinase-2. Biochemical Journal, 2003, 376, 277-283.	1.7	2
49	Crystallization and preliminary crystallographic analysis of the tetrameric form of phosphofructokinase-2 fromEscherichia coli, a member of the ribokinase family. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 935-937.	0.7	2
50	On the Specialization History of the ADP-Dependent Sugar Kinase Family. , 0, , .		2
51	The separation and identification of picomole amounts of intermediates of glucose metabolism by high performance liquid chromatography on pellicular resins. Biological Research, 1992, 25, 73-8.	1.5	2
52	An Evolutionary Marker of the Ribokinase Superfamily Is Responsible for Zinc-Mediated Regulation of Human Pyridoxal Kinase. Catalysts, 2020, 10, 555.	1.6	1
53	Characterisation of kinetics, substrate inhibition and product activation by <scp>AMP</scp> of bifunctional <scp>ADP</scp>â€dependent glucokinase/phosphofructokinase from Methanococcus maripaludis. FEBS Journal, 2022, 289, 7519-7536.	2.2	1
54	Physiological Consequences of a Non-Regulated Mutant Phosphofructokinase in Escherichia Coli. , 2000, , 243-250.		0

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55	A phosphofructokinase mutant of Escherichia coli altered in its allosteric properties impairs gluconeogenic growth. Archivos De BiologÃa Y Medicina Experimentales, 1985, 18, 301-7.	0.0	0