

Alberto A Iglesias

List of Publications by Year in descending order

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146
papers

3,972
citations

147566

31
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53
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151
docs citations

151
times ranked

3064
citing authors

#	ARTICLE	IF	CITATIONS
1	ADP-Glucose Pyrophosphorylase: A Regulatory Enzyme for Plant Starch Synthesis. <i>Photosynthesis Research</i> , 2004, 79, 1-24.	1.6	279
2	ADP-Glucose Pyrophosphorylase, a Regulatory Enzyme for Bacterial Glycogen Synthesis. <i>Microbiology and Molecular Biology Reviews</i> , 2003, 67, 213-225.	2.9	242
3	Higher plant phosphoenolpyruvate carboxylase. <i>FEBS Letters</i> , 1987, 213, 1-8.	1.3	212
4	Characterization of Arabidopsis Lines Deficient in GAPC-1, a Cytosolic NAD-Dependent Glycerinaldehyde-3-Phosphate Dehydrogenase. <i>Plant Physiology</i> , 2008, 148, 1655-1667.	2.3	115
5	Intrinsic disorder is a key characteristic in partners that bind 14-3-3 proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 63, 35-42.	1.5	103
6	Control of Starch Composition and Structure through Substrate Supply in the Monocellular Alga. <i>Journal of Biological Chemistry</i> , 1996, 271, 16281-16287.	1.6	91
7	ADP-glucose pyrophosphorylase from wheat endosperm. Purification and characterization of an enzyme with novel regulatory properties. <i>Planta</i> , 2002, 214, 428-434.	1.6	91
8	Regulatory and Structural Properties of the Cyanobacterial ADPglucose Pyrophosphorylases. <i>Plant Physiology</i> , 1991, 97, 1187-1195.	2.3	85
9	Characterization of an Arabidopsis thaliana mutant lacking a cytosolic non-phosphorylating glycerinaldehyde-3-phosphate dehydrogenase. <i>Plant Molecular Biology</i> , 2006, 61, 945-957.	2.0	82
10	A colorimetric method for the assay of ADP-glucose pyrophosphorylase. <i>Analytical Biochemistry</i> , 2006, 352, 145-147.	1.1	77
11	On the Regulation of Phosphoenolpyruvate Carboxylase Activity from Maize Leaves by L-malate. Effect of pH. <i>Journal of Plant Physiology</i> , 1984, 116, 425-434.	1.6	66
12	Phosphorylated Non-Phosphorylating Glycerinaldehyde-3-Phosphate Dehydrogenase from Heterotrophic Cells of Wheat Interacts with 14-3-3 Proteins. <i>Plant Physiology</i> , 2003, 133, 2081-2088.	2.3	60
13	Bacterial glycogen and plant starch biosynthesis. <i>Biochemical Education</i> , 1992, 20, 196-203.	0.1	54
14	On the Molecular Mechanism of Maize Phosphoenolpyruvate Carboxylase Activation by Thiol Compounds. <i>Plant Physiology</i> , 1984, 75, 983-987.	2.3	48
15	Molecular cloning and expression of the gene encoding ADP-glucose pyrophosphorylase from the cyanobacterium <i>Anabaena</i> sp. strain PCC 7120. <i>Plant Molecular Biology</i> , 1992, 20, 37-47.	2.0	47
16	Redox metabolism in <i>Trypanosoma cruzi</i> : Functional characterization of tryparedoxins revisited. <i>Free Radical Biology and Medicine</i> , 2013, 63, 65-77.	1.3	46
17	Kinetic and Structural Properties of NADP-Malic Enzyme from Sugarcane Leaves. <i>Plant Physiology</i> , 1990, 92, 66-72.	2.3	45
18	Identification of Regions Critically Affecting Kinetics and Allosteric Regulation of the <i>Escherichia coli</i> ADP-Glucose Pyrophosphorylase by Modeling and Pentapeptide-Scanning Mutagenesis. <i>Journal of Bacteriology</i> , 2007, 189, 5325-5333.	1.0	43

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19	The sunflower transcription factor HaHB11 improves yield, biomass and tolerance to flooding in transgenic Arabidopsis plants. <i>Journal of Biotechnology</i> , 2016, 222, 73-83.	1.9	42
20	Identification of Functionally Important Amino-Terminal Arginines of <i>Agrobacterium tumefaciens</i> ADP-Glucose Pyrophosphorylase by Alanine Scanning Mutagenesis. <i>Biochemistry</i> , 2001, 40, 10169-10178.	1.2	41
21	<i>Entamoeba histolytica</i> thioredoxin reductase: Molecular and functional characterization of its atypical properties. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1859-1866.	1.1	40
22	Characterization of Chimeric ADPglucose Pyrophosphorylases of <i>Escherichia coli</i> and <i>Agrobacterium tumefaciens</i> . Importance of the C-Terminus on the Selectivity for Allosteric Regulators. <i>Biochemistry</i> , 2002, 41, 9431-9437.	1.2	39
23	Thioredoxin-linked metabolism in <i>Entamoeba histolytica</i> . <i>Free Radical Biology and Medicine</i> , 2007, 42, 1496-1505.	1.3	38
24	Involvement of non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase in response to oxidative stress. <i>Journal of Plant Physiology</i> , 2008, 165, 456-461.	1.6	38
25	Gene Organization and Transcription Analysis of the <i>Agrobacterium tumefaciens</i> Glycogen (glg) Operon: Two Transcripts for the Single Phosphoglucomutase Gene. <i>Journal of Bacteriology</i> , 1998, 180, 6557-6564.	1.0	38
26	Cytosolic Glyceraldehyde-3-Phosphate Dehydrogenase Is Phosphorylated during Seed Development. <i>Frontiers in Plant Science</i> , 2017, 8, 522.	1.7	37
27	A Differential Redox Regulation of the Pathways Metabolizing Glyceraldehyde-3-Phosphate Tunes the Production of Reducing Power in the Cytosol of Plant Cells. <i>International Journal of Molecular Sciences</i> , 2013, 14, 8073-8092.	1.8	36
28	Purification and kinetic and structural properties of spinach leaf NADP-dependent nonphosphorylating glyceraldehyde-3-phosphate dehydrogenase. <i>Archives of Biochemistry and Biophysics</i> , 1988, 260, 830-840.	1.4	35
29	Ultrasensitive behavior in the synthesis of storage polysaccharides in cyanobacteria. <i>Planta</i> , 2003, 216, 969-975.	1.6	35
30	The presence of essential histidine residues in phosphoenolpyruvate carboxylase from maize leaves. <i>BBA - Proteins and Proteomics</i> , 1983, 749, 9-17.	2.1	33
31	Characterization of Recombinant UDP- and ADP-Glucose Pyrophosphorylases and Glycogen Synthase To Elucidate Glucose-1-Phosphate Partitioning into Oligo- and Polysaccharides in <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , 2012, 194, 1485-1493.	1.0	33
32	Purification and properties of NADP-dependent non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase from the green alga <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1987, 925, 1-10.	1.1	32
33	Effects of Stress on Cellular Infrastructure and Metabolic Organization in Plant Cells. <i>International Review of Cytology</i> , 1999, 194, 239-273.	6.2	31
34	Non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase is post-translationally phosphorylated in heterotrophic cells of wheat (<i>Triticum aestivum</i>). <i>FEBS Letters</i> , 2002, 530, 169-173.	1.3	31
35	Understanding the allosteric trigger for the fructose-1,6-bisphosphate regulation of the ADP-glucose pyrophosphorylase from <i>Escherichia coli</i> . <i>Biochimie</i> , 2011, 93, 1816-1823.	1.3	31
36	Functional characterization of methionine sulfoxide reductase A from <i>Trypanosoma</i> spp.. <i>Free Radical Biology and Medicine</i> , 2011, 50, 37-46.	1.3	31

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37	Involvement of thiol groups in the activity of phosphoenolpyruvate carboxylase from maize leaves. <i>Photosynthesis Research</i> , 1984, 5, 215-226.	1.6	30
38	Active-site-directed inhibition of phosphoenolpyruvate carboxylase from maize leaves by bromopyruvate. <i>Archives of Biochemistry and Biophysics</i> , 1986, 245, 179-186.	1.4	30
39	Interaction of divalent metal ions with the NADP ⁺ -malic enzyme from maize leaves. <i>Physiologia Plantarum</i> , 1991, 81, 462-466.	2.6	30
40	Kinetic and structural analysis of the ultrasensitive behaviour of cyanobacterial ADP-glucose pyrophosphorylase. <i>Biochemical Journal</i> , 2000, 350, 139-147.	1.7	30
41	Application of response surface methodology and artificial neural networks for optimization of recombinant <i>Oryza sativa</i> non-symbiotic hemoglobin 1 production by <i>Escherichia coli</i> in medium containing byproduct glycerol. <i>Bioresource Technology</i> , 2010, 101, 7537-7544.	4.8	30
42	Ultrasensitive glycogen synthesis in Cyanobacteria. <i>FEBS Letters</i> , 1999, 446, 117-121.	1.3	29
43	Structural and kinetic characterization of NADP-dependent, non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase from celery leaves. <i>Plant Science</i> , 2000, 154, 107-115.	1.7	29
44	PFKFB2 regulates glycolysis and proliferation in pancreatic cancer cells. <i>Molecular and Cellular Biochemistry</i> , 2020, 470, 115-129.	1.4	29
45	Tyr ^{Asp} inhibition of glyceraldehyde 3-phosphate dehydrogenase affects plant redox metabolism. <i>EMBO Journal</i> , 2021, 40, e106800.	3.5	29
46	Immunolocalization and enzymatic functional characterization of the thioredoxin system in <i>Entamoeba histolytica</i> . <i>Free Radical Biology and Medicine</i> , 2008, 45, 32-39.	1.3	28
47	NADP-dependent malate dehydrogenase (decarboxylating) from sugar cane leaves. Kinetic properties of different oligomeric structures. <i>FEBS Journal</i> , 1990, 192, 729-733.	0.2	27
48	Molecular characterization and interactome analysis of <i>Trypanosoma cruzi</i> tryparedoxin II. <i>Journal of Proteomics</i> , 2015, 120, 95-104.	1.2	27
49	Allosteric regulation of the partitioning of glucose-1-phosphate between glycogen and trehalose biosynthesis in <i>Mycobacterium tuberculosis</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 13-21.	1.1	27
50	A sunflower WRKY transcription factor stimulates the mobilization of seed-stored reserves during germination and post-germination growth. <i>Plant Cell Reports</i> , 2016, 35, 1875-1890.	2.8	27
51	Modification of an essential amino group of phosphoenolpyruvate carboxylase from maize leaves by pyridoxal phosphate and by pyridoxal phosphate-sensitized photooxidation. <i>Archives of Biochemistry and Biophysics</i> , 1986, 246, 546-553.	1.4	26
52	An assay for adenosine 5'-diphosphate (ADP)-glucose pyrophosphorylase that measures the synthesis of radioactive ADP-glucose with glycogen synthase. <i>Analytical Biochemistry</i> , 2004, 324, 52-59.	1.1	26
53	The ADP-glucose pyrophosphorylase from <i>Escherichia coli</i> comprises two tightly bound distinct domains. <i>FEBS Letters</i> , 2004, 573, 99-104.	1.3	25
54	On the occurrence of thioredoxin in <i>Trypanosoma cruzi</i> . <i>Acta Tropica</i> , 2006, 97, 151-160.	0.9	25

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55	Inactivation of phosphoenolpyruvate carboxylase from maize leaves by modification with phenylglyoxal. <i>BBA - Proteins and Proteomics</i> , 1984, 788, 41-47.	2.1	24
56	Cloning and Expression of the <i>glgC</i> Gene from <i>Agrobacterium tumefaciens</i> : Purification and Characterization of the ADP-glucose Synthetase. <i>Archives of Biochemistry and Biophysics</i> , 1998, 357, 13-21.	1.4	24
57	Redox regulation of UDP-glucose pyrophosphorylase from <i>Entamoeba histolytica</i> . <i>Biochimie</i> , 2011, 93, 260-268.	1.3	24
58	The unique nucleotide specificity of the sucrose synthase from <i>Thermosynechococcus elongatus</i> . <i>FEBS Letters</i> , 2013, 587, 165-169.	1.3	24
59	Redox metabolism in <i>Trypanosoma cruzi</i> . Biochemical characterization of dithiol glutaredoxin dependent cellular pathways. <i>Biochimie</i> , 2014, 106, 56-67.	1.3	24
60	The role of inorganic phosphate in the regulation of C4 photosynthesis. <i>Photosynthesis Research</i> , 1993, 35, 205-211.	1.6	23
61	The ancestral activation promiscuity of ADP-glucose pyrophosphorylases from oxygenic photosynthetic organisms. <i>BMC Evolutionary Biology</i> , 2013, 13, 51.	3.2	23
62	The Crystal Structure of <i>Nitrosomonas europaea</i> Sucrose Synthase Reveals Critical Conformational Changes and Insights into Sucrose Metabolism in Prokaryotes. <i>Journal of Bacteriology</i> , 2015, 197, 2734-2746.	1.0	23
63	Phosphorylation of ADP-Glucose Pyrophosphorylase During Wheat Seeds Development. <i>Frontiers in Plant Science</i> , 2020, 11, 1058.	1.7	23
64	Structure, function, and evolution of plant ADP-glucose pyrophosphorylase. <i>Plant Molecular Biology</i> , 2022, 108, 307-323.	2.0	23
65	Carbohydrate metabolism and fruit quality are affected in frost-exposed Valencia orange fruit. <i>Physiologia Plantarum</i> , 2006, 128, 224-236.	2.6	22
66	Plastidic Phosphoglycerate Kinase from <i>Phaeodactylum tricornutum</i> : On the Critical Role of Cysteine Residues for the Enzyme Function. <i>Protist</i> , 2012, 163, 188-203.	0.6	22
67	Involvement of arginine residues in the allosteric activation and inhibition of <i>Synechocystis</i> PCC 6803 ADP-glucose pyrophosphorylase. <i>The Protein Journal</i> , 1992, 11, 119-128.	1.1	21
68	Cloning, Expression, and Characterization of a Dithiol Glutaredoxin from <i>Trypanosoma cruzi</i> . <i>Antioxidants and Redox Signaling</i> , 2010, 12, 787-792.	2.5	21
69	The ADP-glucose pyrophosphorylase from <i>S. treptococcus mutans</i> provides evidence for the regulation of polysaccharide biosynthesis in <i>Firmicutes</i> . <i>Molecular Microbiology</i> , 2013, 90, 1011-1027.	1.2	21
70	On the Kinetic and Allosteric Regulatory Properties of the ADP-Glucose Pyrophosphorylase from <i>Rhodococcus jostii</i> : An Approach to Evaluate Glycogen Metabolism in Oleaginous Bacteria. <i>Frontiers in Microbiology</i> , 2016, 7, 830.	1.5	21
71	Purification and Characterization of a Glutathione Reductase from <i>Phaeodactylum tricornutum</i> . <i>Protist</i> , 2010, 161, 91-101.	0.6	20
72	Oligomeric enzymes in the C4 pathway of photosynthesis. <i>Photosynthesis Research</i> , 1990, 26, 161-170.	1.6	18

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73	New enzymatic pathways for the reduction of reactive oxygen species in <i>Entamoeba histolytica</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1233-1244.	1.1	18
74	ULTRASENSITIVITY IN (SUPRA)MOLECULARLY ORGANIZED AND CROWDED ENVIRONMENTS. <i>Cell Biology International</i> , 2001, 25, 1091-1099.	1.4	17
75	Structurally Constrained Residues Outside the Binding Motif Are Essential in the Interaction of 14-3-3 and Phosphorylated Partner. <i>Journal of Molecular Biology</i> , 2011, 406, 552-557.	2.0	17
76	Nucleotide-sugar metabolism in plants: the legacy of Luis F. Leloir. <i>Journal of Experimental Botany</i> , 2021, 72, 4053-4067.	2.4	17
77	Kinetic and structural analysis of the ultrasensitive behaviour of cyanobacterial ADP-glucose pyrophosphorylase. <i>Biochemical Journal</i> , 2000, 350, 139.	1.7	16
78	Unraveling the Activation Mechanism of the Potato Tuber ADP-Glucose Pyrophosphorylase. <i>PLoS ONE</i> , 2013, 8, e66824.	1.1	16
79	A Novel Dual Allosteric Activation Mechanism of <i>Escherichia coli</i> ADP-Glucose Pyrophosphorylase: The Role of Pyruvate. <i>PLoS ONE</i> , 2014, 9, e103888.	1.1	16
80	The UDP-glucose pyrophosphorylase from <i>Giardia lamblia</i> is redox regulated and exhibits promiscuity to use galactose-1-phosphate. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 88-96.	1.1	16
81	Production and characterization of <i>Escherichia coli</i> glycerol dehydrogenase as a tool for glycerol recycling. <i>Process Biochemistry</i> , 2013, 48, 406-412.	1.8	15
82	Chemical modification of the phosphoenolpyruvate carboxylase from maize leaves and its conformation in isotropic solution. Studies via triplet lifetime and rotational diffusion using eosin isothiocyanate as label. <i>BBA - Proteins and Proteomics</i> , 1986, 870, 292-301.	2.1	14
83	A model for the interaction between plant GAPN and 14-3-3 η using protein-protein docking calculations, electrostatic potentials and kinetics. <i>Journal of Molecular Graphics and Modelling</i> , 2005, 23, 490-502.	1.3	14
84	Functional characterization of GDP-mannose pyrophosphorylase from <i>Leptospira interrogans</i> serovar Copenhageni. <i>Archives of Microbiology</i> , 2010, 192, 103-114.	1.0	14
85	Regulatory Properties of the ADP-Glucose Pyrophosphorylase from the Clostridial Firmicutes Member <i>Ruminococcus albus</i> . <i>Journal of Bacteriology</i> , 2018, 200, .	1.0	14
86	Kinetic and structural characterization of a typical two-cysteine peroxiredoxin from <i>Leptospira interrogans</i> exhibiting redox sensitivity. <i>Free Radical Biology and Medicine</i> , 2014, 77, 30-40.	1.3	13
87	The Production and Utilization of GDP-glucose in the Biosynthesis of Trehalose 6-Phosphate by <i>Streptomyces venezuelae</i> . <i>Journal of Biological Chemistry</i> , 2017, 292, 945-954.	1.6	13
88	On the Roles of Wheat Endosperm ADP-Glucose Pyrophosphorylase Subunits. <i>Frontiers in Plant Science</i> , 2018, 9, 1498.	1.7	13
89	Biochemical characterization of phosphoenolpyruvate carboxykinases from <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2019, 476, 2939-2952.	1.7	13
90	On the metabolism of triose-phosphates in photosynthetic cells. Their involvement on the traffic of ATP and NADPH. <i>Biochemical Education</i> , 1990, 18, 2-5.	0.1	12

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91	Measurement of the glycogen synthetic pathway in permeabilized cells of cyanobacteria. FEMS Microbiology Letters, 2001, 194, 7-11.	0.7	12
92	Aldose-6-phosphate reductase from apple leaves: Importance of the quaternary structure for enzyme activity. Biochimie, 2010, 92, 81-88.	1.3	12
93	Cloning, expression, purification and physical and kinetic characterization of the phosphoenolpyruvate carboxylase from orange (<i>Citrus sinensis</i> osbeck var. Valencia) fruit juice sacs. Plant Science, 2010, 179, 527-535.	1.7	12
94	Insights into Glycogen Metabolism in Chemolithoautotrophic Bacteria from Distinctive Kinetic and Regulatory Properties of ADP-Glucose Pyrophosphorylase from <i>Nitrosomonas europaea</i> . Journal of Bacteriology, 2012, 194, 6056-6065.	1.0	12
95	On the Ancestral UDP-Glucose Pyrophosphorylase Activity of GalF from <i>Escherichia coli</i> . Frontiers in Microbiology, 2015, 6, 1253.	1.5	12
96	Domain Swapping between a Cyanobacterial and a Plant Subunit ADP-Glucose Pyrophosphorylase. Plant and Cell Physiology, 2006, 47, 523-530.	1.5	11
97	Glucitol Dehydrogenase from Peach (<i>Prunus persica</i>) Fruits is Regulated by Thioredoxin h. Plant and Cell Physiology, 2014, 55, 1157-1168.	1.5	11
98	Identification and characterization of a novel starch branching enzyme from the picoalgae <i>Ostreococcus tauri</i> . Archives of Biochemistry and Biophysics, 2017, 618, 52-61.	1.4	11
99	Allosteric Control of Substrate Specificity of the <i>Escherichia coli</i> ADP-Glucose Pyrophosphorylase. Frontiers in Chemistry, 2017, 5, 41.	1.8	11
100	Structural analysis reveals a pyruvate-binding activator site in the <i>Agrobacterium tumefaciens</i> ADP-glucose pyrophosphorylase. Journal of Biological Chemistry, 2019, 294, 1338-1348.	1.6	11
101	Identification of a novel starch synthase III from the picoalgae <i>Ostreococcus tauri</i> . Biochimie, 2017, 133, 37-44.	1.3	10
102	On the stability of nucleoside diphosphate glucose metabolites: implications for studies of plant carbohydrate metabolism. Journal of Experimental Botany, 2017, 68, 3331-3337.	2.4	10
103	A fluorometric method for the assay of protein kinase activity. Analytical Biochemistry, 2018, 557, 120-122.	1.1	10
104	Inhibition of Recombinant Aldose-6-Phosphate Reductase from Peach Leaves by Hexose-Phosphates, Inorganic Phosphate and Oxidants. Plant and Cell Physiology, 2016, 58, pcw180.	1.5	9
105	Starch Synthesis in <i>Ostreococcus tauri</i> : The Starch-Binding Domains of Starch Synthase III-B Are Essential for Catalytic Activity. Frontiers in Plant Science, 2018, 9, 1541.	1.7	9
106	Resurrecting the Regulatory Properties of the <i>Ostreococcus tauri</i> ADP-Glucose Pyrophosphorylase Large Subunit. Frontiers in Plant Science, 2018, 9, 1564.	1.7	9
107	Mapping of a Regulatory Site of the <i>Escherichia coli</i> ADP-Glucose Pyrophosphorylase. Frontiers in Molecular Biosciences, 2019, 6, 89.	1.6	9
108	Elucidating carbohydrate metabolism in <i>Euglena gracilis</i> : Reverse genetics-based evaluation of genes coding for enzymes linked to paramylon accumulation. Biochimie, 2021, 184, 125-131.	1.3	9

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109	Studies on the Effect of Temperature on the Activity and Stability of Cyanobacterial ADP-Glucose Pyrophosphorylase. Archives of Biochemistry and Biophysics, 2000, 384, 319-326.	1.4	8
110	Biochemical characterization of thioredoxin reductase from Babesia bovis. Biochimie, 2014, 99, 44-53.	1.3	8
111	Elucidating paramylon and other carbohydrate metabolism in Euglena gracilis: Kinetic characterization, structure and cellular localization of UDP-glucose pyrophosphorylase. Biochimie, 2018, 154, 176-186.	1.3	8
112	The C4 pathway of photosynthesis and its regulation. Biochemical Education, 1986, 14, 98-102.	0.1	7
113	NADP+-malic enzyme from sugarcane leaves: Structural properties studied by thermal inactivation. Archives of Biochemistry and Biophysics, 1991, 290, 272-276.	1.4	7
114	Hysteretic properties of NADP-malic enzyme from sugarcane leaves. Photosynthesis Research, 1992, 31, 89-97.	1.6	7
115	The kinetic properties of liver glucokinase and its function in glucose physiology as a model for the comprehensive study of enzymes' kinetic parameters and reversible inhibitors. Biochemistry and Molecular Biology Education, 2000, 28, 332-337.	0.5	7
116	Heterologous expression of non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase from Triticum aestivum and Arabidopsis thaliana. Biochimie, 2010, 92, 909-913.	1.3	7
117	A Chimeric UDP-Glucose Pyrophosphorylase Produced by Protein Engineering Exhibits Sensitivity to Allosteric Regulators. International Journal of Molecular Sciences, 2013, 14, 9703-9721.	1.8	7
118	Functional thioredoxin reductase from pathogenic and free-living Leptospira spp.. Free Radical Biology and Medicine, 2016, 97, 1-13.	1.3	7
119	Heterologous expression and kinetic characterization of the $\hat{1}\pm$, $\hat{1}^2$ and $\hat{1}\pm\hat{1}^2$ blend of the PPI-dependent phosphofructokinase from Citrus sinensis. Plant Science, 2019, 280, 348-354.	1.7	7
120	Glucosamine-P and rhodococcal ADP-glucose pyrophosphorylases: A hint to (re)discover (actino)bacterial amino sugar metabolism. Biochimie, 2020, 176, 158-161.	1.3	7
121	Synthesis of Floridean Starch in the Red Alga Gracilaria Gracilis Occurs Via ADP-Glucose. , 1998, , 3537-3540.		7
122	A simple laboratory experiment for the teaching of the assay and kinetic characterization of enzymes. Biochemical Education, 1997, 25, 106-109.	0.1	6
123	Bi-national and interdisciplinary course in enzyme engineering. Biochemistry and Molecular Biology Education, 2010, 38, 370-379.	0.5	6
124	Monofluorophosphate Blocks Internal Polysaccharide Synthesis in Streptococcus mutans. PLoS ONE, 2017, 12, e0170483.	1.1	6
125	On the simultaneous activation of Agrobacterium tumefaciens ADP-glucose pyrophosphorylase by pyruvate and fructose 6-phosphate. Biochimie, 2020, 171-172, 23-30.	1.3	6
126	Proteolytic cleavage of Arabidopsis thaliana phosphoenolpyruvate carboxykinase-1 modifies its allosteric regulation. Journal of Experimental Botany, 2021, 72, 2514-2524.	2.4	6

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127	Simultaneous inhibition of PFKFB3 and GLS1 selectively kills KRAS-transformed pancreatic cells. <i>Biochemical and Biophysical Research Communications</i> , 2021, 571, 118-124.	1.0	6
128	Re-Paving the Road Built by Chemistry: A Challenge to Biochemistry and Biotechnology. <i>American Journal of Biochemistry and Biotechnology</i> , 2015, 11, 3-4.	0.1	6
129	On the interaction of substrate analogues with non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase from celery leaves. <i>Plant Science</i> , 2002, 162, 689-696.	1.7	5
130	First evidence of glutathione metabolism in <i>Leptospira interrogans</i> . <i>Free Radical Biology and Medicine</i> , 2019, 143, 366-374.	1.3	5
131	The kinetic properties of liver glucokinase and its function in glucose physiology as a model for the comprehensive study of enzymes' kinetic parameters and reversible inhibitors. <i>Biochemistry and Molecular Biology Education</i> , 2000, 28, 332-337.	0.5	4
132	On the functionality of a methionine sulfoxide reductase B from <i>Trypanosoma cruzi</i> . <i>Free Radical Biology and Medicine</i> , 2020, 158, 96-114.	1.3	4
133	New pieces to the carbon metabolism puzzle of <i>Nitrosomonas europaea</i> : Kinetic characterization of glyceraldehyde-3 phosphate and succinate semialdehyde dehydrogenases. <i>Biochimie</i> , 2019, 158, 238-245.	1.3	3
134	On the functionality of the N-terminal domain in xylanase 10A from <i>Ruminococcus albus</i> 8. <i>Enzyme and Microbial Technology</i> , 2020, 142, 109673.	1.6	3
135	Biochemical characterization of recombinant UDP-sugar pyrophosphorylase and galactinol synthase from <i>Brachypodium distachyon</i> . <i>Plant Physiology and Biochemistry</i> , 2020, 155, 780-788.	2.8	3
136	The ADP-glucose pyrophosphorylase from Melainabacteria: a comparative study between photosynthetic and non-photosynthetic bacterial sources. <i>Biochimie</i> , 2022, 192, 30-37.	1.3	3
137	Functional characterization of monothiol and dithiol glutaredoxins from <i>Leptospira interrogans</i> . <i>Biochimie</i> , 2022, 197, 144-159.	1.3	3
138	Photosynthate Formation and Partitioning in Crop Plants. <i>Books in Soils, Plants, and the Environment</i> , 2005, , .	0.1	2
139	Carbon Photoassimilation and Photosynthate Partitioning in Plants. <i>Books in Soils, Plants, and the Environment</i> , 2016, , 509-535.	0.1	2
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