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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54 papers	2,249 citations	25 h-index	47 g-index
58 ext. papers	2,451 ext. citations	4.7 avg, IF	4.83 L-index

#	Paper	IF	Citations
54	Expression of a stress-induced hemoglobin affects NO levels produced by alfalfa root cultures under hypoxic stress. <i>Plant Journal</i> , 2003 , 35, 763-70	6.9	250
53	Osmoprotective compounds in the Plumbaginaceae: a natural experiment in metabolic engineering of stress tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 306-10	11.5	226
52	Plant haemoglobins, nitric oxide and hypoxic stress. <i>Annals of Botany</i> , 2003 , 91 Spec No, 173-8	4.1	188
51	Class-1 hemoglobins, nitrate and NO levels in anoxic maize cell-suspension cultures. <i>Planta</i> , 2004 , 219, 66-72	4.7	164
50	Anaerobic stress induces the transcription and translation of sucrose synthase in rice. <i>Plant Physiology</i> , 1991 , 95, 669-74	6.6	124
49	Isozymes of plant hexokinase: occurrence, properties and functions. <i>Phytochemistry</i> , 2007 , 68, 709-31	4	110
48	Biosynthesis of 3-dimethylsulfoniopropionate in <i>Wollastonia biflora</i> (L.) DC. Evidence that S-methylmethionine is an intermediate. <i>Plant Physiology</i> , 1994 , 105, 103-10	6.6	87
47	Metabolic Control of Anaerobic Glycolysis (Overexpression of Lactate Dehydrogenase in Transgenic Tomato Roots Supports the Davies-Roberts Hypothesis and Points to a Critical Role for Lactate Secretion. <i>Plant Physiology</i> , 1994 , 106, 1179-1185	6.6	83
46	Consequences of Oxidative Stress on Plant Glycolytic and Respiratory Metabolism. <i>Frontiers in Plant Science</i> , 2019 , 10, 166	6.2	67
45	Proteomic analysis of common bean seed with storage protein deficiency reveals up-regulation of sulfur-rich proteins and starch and raffinose metabolic enzymes, and down-regulation of the secretory pathway. <i>Journal of Proteomics</i> , 2010 , 73, 1587-600	3.9	55
44	Evidence for a Large and Sustained Glycolytic Flux to Lactate in Anoxic Roots of Some Members of the Halophytic Genus <i>Limonium</i> . <i>Plant Physiology</i> , 1993 , 101, 553-560	6.6	53
43	Purification and characterization of high- and low-molecular-mass isoforms of phosphoenolpyruvate carboxylase from <i>Chlamydomonas reinhardtii</i> . Kinetic, structural and immunological evidence that the green algal enzyme is distinct from the prokaryotic and higher plant enzymes. <i>Biochemical Journal</i> , 1998 , 331 (Pt 1), 201-9	3.8	52
42	Arsenic resistance in <i>Pteris vittata</i> L.: identification of a cytosolic triosephosphate isomerase based on cDNA expression cloning in <i>Escherichia coli</i> . <i>Plant Molecular Biology</i> , 2006 , 62, 845-57	4.6	47
41	Two unrelated phosphoenolpyruvate carboxylase polypeptides physically interact in the high molecular mass isoforms of this enzyme in the unicellular green alga <i>Selenastrum minutum</i> . <i>Journal of Biological Chemistry</i> , 2001 , 276, 12588-97	5.4	44
40	Purification and partial characterization of pyruvate decarboxylase from <i>Oryza sativa</i> L. <i>FEBS Journal</i> , 1990 , 194, 791-7		44
39	Differential induction of pyruvate decarboxylase subunits and transcripts in anoxic rice seedlings. <i>Plant Physiology</i> , 1997 , 114, 1021-9	6.6	39
38	Lactate Dehydrogenase in <i>Oryza sativa</i> L. Seedlings and Roots: Identification and Partial Characterization. <i>Plant Physiology</i> , 1991 , 95, 682-6	6.6	38

37	Purification and properties of four phosphoenolpyruvate carboxylase isoforms from the green alga <i>Selenastrum minutum</i> : evidence that association of the 102-kDa catalytic subunit with unrelated polypeptides may modify the physical and kinetic properties of the enzyme. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 332, 47-57	4.1	36
36	Cloning and characterization of a cytosolic isoform of triosephosphate isomerase developmentally regulated in potato leaves. <i>Plant Science</i> , 2005 , 168, 183-194	5.3	34
35	Characterization of a cytosolic nucleoside diphosphate kinase associated with cell division and growth in potato. <i>Planta</i> , 2006 , 224, 108-24	4.7	34
34	Choline-O-Sulfate Biosynthesis in Plants (Identification and Partial Characterization of a Salinity-Inducible Choline Sulfotransferase from Species of <i>Limonium</i> (Plumbaginaceae). <i>Plant Physiology</i> , 1994 , 106, 1187-1193	6.6	33
33	Clues to the functions of plant NDPK isoforms. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2015 , 388, 119-32	3.4	27
32	A large decrease of cytosolic triosephosphate isomerase in transgenic potato roots affects the distribution of carbon in primary metabolism. <i>Planta</i> , 2012 , 236, 1177-90	4.7	25
31	Rice cytosolic glyceraldehyde 3-phosphate dehydrogenase contains two subunits differentially regulated by anaerobiosis. <i>Plant Molecular Biology</i> , 1989 , 12, 131-9	4.6	25
30	A method for activity staining after native polyacrylamide gel electrophoresis using a coupled enzyme assay and fluorescence detection: application to the analysis of several glycolytic enzymes. <i>Analytical Biochemistry</i> , 2002 , 300, 94-9	3.1	24
29	Cytosolic Triosephosphate Isomerase from Is Reversibly Modified by Glutathione on Cysteines 127 and 218. <i>Frontiers in Plant Science</i> , 2016 , 7, 1942	6.2	23
28	Characterization of a mitochondrial NADP-dependent isocitrate dehydrogenase in axes of germinating sunflower seeds. <i>Plant Science</i> , 1994 , 102, 49-59	5.3	22
27	Cloning, expression, purification, and properties of a putative plasma membrane hexokinase from <i>Solanum chacoense</i> . <i>Protein Expression and Purification</i> , 2006 , 47, 329-39	2	18
26	In vitro phosphorylation of phosphoenolpyruvate carboxylase from the green alga <i>Selenastrum minutum</i> . <i>Plant and Cell Physiology</i> , 2002 , 43, 785-92	4.9	17
25	Cloning, biochemical characterization and expression of a sunflower (<i>Helianthus annuus</i> L.) hexokinase associated with seed storage compounds accumulation. <i>Journal of Plant Physiology</i> , 2011 , 168, 299-308	3.6	16
24	Molecular cloning and biochemical characterization of three phosphoglycerate kinase isoforms from developing sunflower (<i>Helianthus annuus</i> L.) seeds. <i>Phytochemistry</i> , 2012 , 79, 27-38	4	13
23	<i>Arabidopsis thaliana</i> alcohol dehydrogenase is differently affected by several redox modifications. <i>PLoS ONE</i> , 2018 , 13, e0204530	3.7	13
22	Glutathione Metabolism in Plants under Stress: Beyond Reactive Oxygen Species Detoxification. <i>Metabolites</i> , 2021 , 11,	5.6	13
21	The Plant Ovule Secretome: A Different View toward Pollen-Pistil Interactions. <i>Journal of Proteome Research</i> , 2015 , 14, 4763-75	5.6	12
20	The dinoflagellate <i>Lingulodinium polyedrum</i> responds to N depletion by a polarized deposition of starch and lipid bodies. <i>PLoS ONE</i> , 2014 , 9, e111067	3.7	12

19	Quantification of uridine 5-diphosphate (UDP)-glucose by high-performance liquid chromatography and its application to a nonradioactive assay for nucleoside diphosphate kinase using UDP-glucose pyrophosphorylase as a coupling enzyme. <i>Analytical Biochemistry</i> , 2003 , 323, 188-96	3.1	11
18	Engineering the expression level of cytosolic nucleoside diphosphate kinase in transgenic <i>Solanum tuberosum</i> roots alters growth, respiration and carbon metabolism. <i>Plant Journal</i> , 2017 , 89, 914-926	6.9	10
17	Analyzing the effect of decreasing cytosolic triosephosphate isomerase on <i>Solanum tuberosum</i> hairy root cells using a kinetic-metabolic model. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 924-35	4.9	9
16	Molecular and biochemical characterization of the sunflower (<i>Helianthus annuus</i> L.) cytosolic and plastidial enolases in relation to seed development. <i>Plant Science</i> , 2018 , 272, 117-130	5.3	8
15	Plant nucleoside diphosphate kinase 1: A housekeeping enzyme with moonlighting activity. <i>Plant Signaling and Behavior</i> , 2018 , 13, e1475804	2.5	8
14	The futile cycling of hexose phosphates could account for the fact that hexokinase exerts a high control on glucose phosphorylation but not on glycolytic rate in transgenic potato (<i>Solanum tuberosum</i>) roots. <i>PLoS ONE</i> , 2013 , 8, e53898	3.7	8
13	Autophosphorylation of <i>Solanum chacoense</i> cytosolic nucleoside diphosphate kinase on Ser117. <i>Journal of Experimental Botany</i> , 2006 , 57, 4079-88	7	8
12	Cloning, biochemical characterisation, tissue localisation and possible post-translational regulatory mechanism of the cytosolic phosphoglucose isomerase from developing sunflower seeds. <i>Planta</i> , 2010 , 232, 845-59	4.7	7
11	Characterization of ScORK28, a transmembrane functional protein receptor kinase predominantly expressed in ovaries from the wild potato species <i>Solanum chacoense</i> . <i>FEBS Letters</i> , 2007 , 581, 5137-42	3.8	7
10	A dinoflagellate CDK5-like cyclin-dependent kinase. <i>Biology of the Cell</i> , 2007 , 99, 531-40	3.5	5
9	Expression, purification and characterization of <i>Solanum tuberosum</i> recombinant cytosolic pyruvate kinase. <i>Protein Expression and Purification</i> , 2015 , 110, 7-13	2	4
8	Purification to homogeneity and characterization of nonproteolyzed potato (<i>Solanum tuberosum</i>) tuber hexokinase 1. <i>Botany</i> , 2011 , 89, 289-299	1.3	4
7	A rapid ion exchange procedure that facilitates spectrophotometric assays of phosphorylated metabolites in potato extracts. <i>Acta Physiologiae Plantarum</i> , 2009 , 31, 855-859	2.6	4
6	Thrips-induced damage of chrysanthemum inflorescences: evidence for enhanced leakage of carotenoid pigments. <i>Entomologia Experimentalis Et Applicata</i> , 2007 , 123, 247-252	2.1	3
5	Label-free MS/MS analyses of the dinoflagellate <i>Lingulodinium</i> identifies rhythmic proteins facilitating adaptation to a diurnal LD cycle. <i>Science of the Total Environment</i> , 2020 , 704, 135430	10.2	2
4	Phycobilin heterologous production from the Rhodophyta <i>Porphyridium cruentum</i> . <i>Journal of Biotechnology</i> , 2021 , 341, 30-42	3.7	2
3	The stress induced caleosin, RD20/CLO3, acts as a negative regulator of GPA1 in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2021 , 107, 159-175	4.6	1
2	Sustained substrate cycles between hexose phosphates and free sugars in phosphate-deficient potato (<i>Solanum tuberosum</i>) cell cultures. <i>Planta</i> , 2019 , 249, 1319-1336	4.7	1

- 1 Characterization of High and Low Molecular Mass Isoforms of Phosphoenolpyruvate Carboxylase from the Green Alga *Selenastrum Minutum* **1998**, 3403-3406