

William C Plaxton

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194 papers	9,222 citations	50 h-index	90 g-index
218 ext. papers	10,462 ext. citations	5.1 avg, IF	6.27 L-index

#	Paper	IF	Citations
194	THE ORGANIZATION AND REGULATION OF PLANT GLYCOLYSIS. <i>Annual Review of Plant Biology</i> , 1996 , 47, 185-214		650
193	The role of acid phosphatases in plant phosphorus metabolism. <i>Physiologia Plantarum</i> , 1994 , 90, 791-800.	4.6	494
192	Opportunities for improving phosphorus-use efficiency in crop plants. <i>New Phytologist</i> , 2012 , 195, 306-320.	3.8	479
191	The Functional Organization and Control of Plant Respiration. <i>Critical Reviews in Plant Sciences</i> , 2006 , 25, 159-198	5.6	351
190	Metabolic adaptations of phosphate-starved plants. <i>Plant Physiology</i> , 2011 , 156, 1006-15	6.6	342
189	Metabolic Adaptations of Plant Respiration to Nutritional Phosphate Deprivation. <i>Plant Physiology</i> , 1993 , 101, 339-344	6.6	285
188	Phosphate Starvation Inducible 'Bypasses' of Adenylate and Phosphate Dependent Glycolytic Enzymes in Brassica nigra Suspension Cells. <i>Plant Physiology</i> , 1989 , 90, 1275-8	6.6	246
187	The remarkable diversity of plant PEPC (phosphoenolpyruvate carboxylase): recent insights into the physiological functions and post-translational controls of non-photosynthetic PEPCs. <i>Biochemical Journal</i> , 2011 , 436, 15-34	3.8	203
186	Feeding hungry plants: The role of purple acid phosphatases in phosphate nutrition. <i>Plant Science</i> , 2010 , 179, 14-27	5.3	177
185	Purification and Properties of Nonproteolytic Degraded ADPglucose Pyrophosphorylase from Maize Endosperm. <i>Plant Physiology</i> , 1987 , 83, 105-12	6.6	155
184	PHOSPHITE (PHOSPHOROUS ACID): ITS RELEVANCE IN THE ENVIRONMENT AND AGRICULTURE AND INFLUENCE ON PLANT PHOSPHATE STARVATION RESPONSE. <i>Journal of Plant Nutrition</i> , 2001 , 24, 1505-1519	2.3	145
183	Effects of Phosphorus Limitation on Respiratory Metabolism in the Green Alga Selenastrum minutum. <i>Plant Physiology</i> , 1991 , 95, 1089-95	6.6	128
182	Trehalose 6-phosphate coordinates organic and amino acid metabolism with carbon availability. <i>Plant Journal</i> , 2016 , 85, 410-23	6.9	120
181	Response to Phosphate Deprivation in Brassica nigra Suspension Cells : Enhancement of Intracellular, Cell Surface, and Secreted Phosphatase Activities Compared to Increases in Pi-Absorption Rate. <i>Plant Physiology</i> , 1990 , 93, 504-11	6.6	119
180	Purification and characterization of two secreted purple acid phosphatase isozymes from phosphate-starved tomato (Lycopersicon esculentum) cell cultures. <i>FEBS Journal</i> , 2002 , 269, 6278-86		117
179	The Fungicide Phosphonate Disrupts the Phosphate-Starvation Response in Brassica nigra Seedlings. <i>Plant Physiology</i> , 1996 , 110, 105-110	6.6	117
178	Biochemical and molecular characterization of AtPAP26, a vacuolar purple acid phosphatase up-regulated in phosphate-deprived Arabidopsis suspension cells and seedlings. <i>Plant Physiology</i> , 2006 , 142, 1282-93	6.6	114

177	The dual-targeted purple acid phosphatase isozyme AtPAP26 is essential for efficient acclimation of Arabidopsis to nutritional phosphate deprivation. <i>Plant Physiology</i> , 2010 , 153, 1112-22	6.6	102
176	Phosphate-starvation response in plant cells: de novo synthesis and degradation of acid phosphatases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 9538-42	11.5	102
175	Disruption of the phosphate-starvation response of oilseed rape suspension cells by the fungicide phosphonate. <i>Planta</i> , 1997 , 203, 67-74	4.7	98
174	Molecular and immunological characterization of plastid and cytosolic pyruvate kinase isozymes from castor-oil-plant endosperm and leaf. <i>FEBS Journal</i> , 1989 , 181, 443-51		97
173	Biochemical and molecular characterization of AtPAP12 and AtPAP26: the predominant purple acid phosphatase isozymes secreted by phosphate-starved Arabidopsis thaliana. <i>Plant, Cell and Environment</i> , 2010 , 33, 1789-803	8.4	91
172	Relationship between NH(4) Assimilation Rate and in Vivo Phosphoenolpyruvate Carboxylase Activity : Regulation of Anaplerotic Carbon Flow in the Green Alga Selenastrum minutum. <i>Plant Physiology</i> , 1990 , 94, 284-90	6.6	89
171	Purification and Characterization of a Phosphoenolpyruvate Phosphatase from Brassica nigra Suspension Cells. <i>Plant Physiology</i> , 1989 , 90, 734-41	6.6	88
170	Phosphorus nutrition in Proteaceae and beyond. <i>Nature Plants</i> , 2015 , 1, 15109	11.5	85
169	Eliminating the purple acid phosphatase AtPAP26 in Arabidopsis thaliana delays leaf senescence and impairs phosphorus remobilization. <i>New Phytologist</i> , 2012 , 196, 1024-1029	9.8	84
168	Structural and kinetic properties of a novel purple acid phosphatase from phosphate-starved tomato (Lycopersicon esculentum) cell cultures. <i>Biochemical Journal</i> , 2004 , 377, 419-28	3.8	83
167	In vivo regulatory phosphorylation of the phosphoenolpyruvate carboxylase AtPPC1 in phosphate-starved Arabidopsis thaliana. <i>Biochemical Journal</i> , 2009 , 420, 57-65	3.8	82
166	The secreted purple acid phosphatase isozymes AtPAP12 and AtPAP26 play a pivotal role in extracellular phosphate-scavenging by Arabidopsis thaliana. <i>Journal of Experimental Botany</i> , 2012 , 63, 6531-42	7	81
165	Proteomic analysis of alterations in the secretome of Arabidopsis thaliana suspension cells subjected to nutritional phosphate deficiency. <i>Proteomics</i> , 2008 , 8, 4317-26	4.8	77
164	Regulation of Phosphoenolpyruvate Carboxylase from the Green Alga Selenastrum minutum: Properties Associated with Replenishment of Tricarboxylic Acid Cycle Intermediates during Ammonium Assimilation. <i>Plant Physiology</i> , 1990 , 93, 1303-11	6.6	69
163	Purification and properties of aerobic and anoxic forms of pyruvate kinase from red muscle tissue of the channelled whelk, Busycotypus canaliculatum. <i>FEBS Journal</i> , 1984 , 143, 257-65		66
162	Purification and Characterization of a Potato Tuber Acid Phosphatase Having Significant Phosphotyrosine Phosphatase Activity. <i>Plant Physiology</i> , 1994 , 106, 223-232	6.6	65
161	Phosphoenolpyruvate carboxylase activity and concentration in the endosperm of developing and germinating castor oil seeds. <i>Plant Physiology</i> , 1992 , 99, 445-9	6.6	65
160	Pyruvate kinase isozymes from the green alga, Selenastrum minutum. II. Kinetic and regulatory properties. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 269, 228-38	4.1	65

159	Differential synthesis of phosphate-starvation inducible purple acid phosphatase isozymes in tomato (<i>Lycopersicon esculentum</i>) suspension cells and seedlings. <i>Plant, Cell and Environment</i> , 2006 , 29, 303-13	8.4	64
158	Phosphorylation in vivo of red-muscle pyruvate kinase from the channelled whelk, <i>Busycotypus canaliculatum</i> , in response to anoxic stress. <i>FEBS Journal</i> , 1984 , 143, 267-72		63
157	Bacterial- and plant-type phosphoenolpyruvate carboxylase polypeptides interact in the hetero-oligomeric Class-2 PEPC complex of developing castor oil seeds. <i>Plant Journal</i> , 2007 , 52, 839-49	6.9	62
156	From genome to enzyme: analysis of key glycolytic and oxidative pentose-phosphate pathway enzymes in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Plant and Cell Physiology</i> , 2003 , 44, 758-63	4.9	62
155	Purification and characterization of phosphoenolpyruvate carboxylase from <i>Brassica napus</i> (rapeseed) suspension cell cultures: implications for phosphoenolpyruvate carboxylase regulation during phosphate starvation, and the integration of glycolysis with nitrogen assimilation. <i>FEBS Journal</i> , 2000 , 267, 4465-76		62
154	Normal growth of transgenic tobacco plants in the absence of cytosolic pyruvate kinase. <i>Plant Physiology</i> , 1992 , 100, 820-5	6.6	58
153	Regulatory monoubiquitination of phosphoenolpyruvate carboxylase in germinating castor oil seeds. <i>Journal of Biological Chemistry</i> , 2008 , 283, 29650-7	5.4	57
152	Purification and characterization of cytosolic pyruvate kinase from <i>Brassica napus</i> (rapeseed) suspension cell cultures: implications for the integration of glycolysis with nitrogen assimilation. <i>FEBS Journal</i> , 2000 , 267, 4477-85		55
151	Molecular Mechanisms of Phosphorus Metabolism and Transport during Leaf Senescence. <i>Plants</i> , 2015 , 4, 773-98	4.5	54
150	Purification and characterization of a novel phosphoenolpyruvate carboxylase from banana fruit. <i>Biochemical Journal</i> , 1995 , 307 (Pt 3), 807-16	3.8	54
149	Regulation of cytosolic carbon metabolism in germinating <i>Ricinus communis</i> cotyledons. <i>Planta</i> , 1994 , 194, 381-387	4.7	53
148	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 eukaryotic enzymes. <i>Plant and Cell Physiology</i> , 1993 , 34, 281-9	3.8	52
147	Senescence-inducible cell wall and intracellular purple acid phosphatases: implications for phosphorus remobilization in <i>Hakea prostrata</i> (Proteaceae) and <i>Arabidopsis thaliana</i> (Brassicaceae). <i>Journal of Experimental Botany</i> , 2014 , 65, 6097-106	7	51
146	Pyruvate kinase isozymes from the green alga, <i>Selenastrum minutum</i> . I. Purification and physical and immunological characterization. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 269, 219-27	4.1	51
145	Metabolite regulation of partially purified soybean nodule phosphoenolpyruvate carboxylase. <i>Plant Physiology</i> , 1990 , 94, 1429-35	6.6	50
144	Kinetic and regulatory properties of cytosolic pyruvate kinase from germinating castor oil seeds. <i>Biochemical Journal</i> , 1991 , 279 (Pt 2), 495-501	3.8	49
143	The cell wall-targeted purple acid phosphatase AtPAP25 is critical for acclimation of <i>Arabidopsis thaliana</i> to nutritional phosphorus deprivation. <i>Plant Journal</i> , 2014 , 80, 569-81	6.9	48
142	Reciprocal control of anaplerotic phosphoenolpyruvate carboxylase by in vivo monoubiquitination and phosphorylation in developing proteoid roots of phosphate-deficient harsh hakea. <i>Plant Physiology</i> , 2013 , 161, 1634-44	6.6	48

141	Structural and kinetic properties of high and low molecular mass phosphoenolpyruvate carboxylase isoforms from the endosperm of developing castor oilseeds. <i>Journal of Biological Chemistry</i> , 2003 , 278, 11867-73	5.4	47
140	Purification, characterization, and subcellular localization of an acid phosphatase from black mustard cell-suspension cultures: comparison with phosphoenolpyruvate phosphatase. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 286, 226-32	4.1	46
139	Glycolytic enzyme binding and metabolic control in anaerobiosis. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1986 , 156, 635-640	2.2	46
138	Regulation of cytosolic carbon metabolism in germinating <i>Ricinus communis</i> cotyledons. <i>Planta</i> , 1994 , 194, 374-380	4.7	45
137	Bacterial-type phosphoenolpyruvate carboxylase (PEPC) functions as a catalytic and regulatory subunit of the novel class-2 PEPC complex of vascular plants. <i>Journal of Biological Chemistry</i> , 2009 , 284, 24797-805	5.4	44
136	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
135	Purification of pyruvate kinase from germinating castor bean endosperm. <i>Plant Physiology</i> , 1988 , 86, 1064-9	6.6	44
134	In vivo regulatory phosphorylation of novel phosphoenolpyruvate carboxylase isoforms in endosperm of developing castor oil seeds. <i>Plant Physiology</i> , 2005 , 139, 969-78	6.6	43
133	Altered growth of transgenic tobacco lacking leaf cytosolic pyruvate kinase. <i>Plant Physiology</i> , 1998 , 116, 45-51	6.6	40
132	Coimmunopurification of phosphorylated bacterial- and plant-type phosphoenolpyruvate carboxylases with the plastidial pyruvate dehydrogenase complex from developing castor oil seeds. <i>Plant Physiology</i> , 2008 , 146, 1346-57	6.6	39
131	The role of acid phosphatases in plant phosphorus metabolism. <i>Physiologia Plantarum</i> , 1994 , 90, 791-800	4.6	39
130	Phosphite accelerates programmed cell death in phosphate-starved oilseed rape (<i>Brassica napus</i>) suspension cell cultures. <i>Planta</i> , 2003 , 218, 233-9	4.7	38
129	Cytosolic pyruvate kinase: subunit composition, activity, and amount in developing castor and soybean seeds, and biochemical characterization of the purified castor seed enzyme. <i>Planta</i> , 2005 , 222, 1051-62	4.7	38
128	Tissue specific isozymes of pyruvate kinase in the channelled whelk <i>Busycotypus canaliculatus</i> : enzyme modification in response to environmental anoxia. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1985 , 155, 291-296	2.2	38
127	Plant Response to Stress: Biochemical Adaptations to Phosphate Deficiency 2004 , 976-980		38
126	Purification and characterization of pyrophosphate-dependent phosphofructokinase from phosphate-starved <i>Brassica nigra</i> suspension cells. <i>Plant Physiology</i> , 1996 , 112, 343-51	6.6	37
125	Tissue-specific expression and post-translational modifications of plant- and bacterial-type phosphoenolpyruvate carboxylase isozymes of the castor oil plant, <i>Ricinus communis</i> L. <i>Journal of Experimental Botany</i> , 2011 , 62, 5485-95	7	36
124	Regulatory phosphorylation of banana fruit phosphoenolpyruvate carboxylase by a copurifying phosphoenolpyruvate carboxylase-kinase. <i>FEBS Journal</i> , 1997 , 247, 642-51		36

123	Phosphite disrupts the acclimation of <i>Saccharomyces cerevisiae</i> to phosphate starvation. <i>Canadian Journal of Microbiology</i> , 2001 , 47, 969-78	3.2	36
122	Photosynthesis and carbon partitioning in transgenic tobacco plants deficient in leaf cytosolic pyruvate kinase. <i>Plant Physiology</i> , 1999 , 120, 887-96	6.6	36
121	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
120	Structural and regulatory properties of pyruvate kinase from the Cyanobacterium <i>synechococcus</i> PCC 6301. <i>Journal of Biological Chemistry</i> , 2001 , 276, 20966-72	5.4	35
119	Purification of leucoplast pyruvate kinase from developing castor bean endosperm. <i>Plant Physiology</i> , 1990 , 94, 1528-34	6.6	34
118	Molecular mechanisms underpinning phosphorus-use efficiency in rice. <i>Plant, Cell and Environment</i> , 2018 , 41, 1483-1496	8.4	33
117	Bacterial- and plant-type phosphoenolpyruvate carboxylase isozymes from developing castor oil seeds interact in vivo and associate with the surface of mitochondria. <i>Plant Journal</i> , 2012 , 71, 251-62	6.9	33
116	Microalgal cultivation with waste streams and metabolic constraints to triacylglycerides accumulation for biofuel production. <i>Biofuels, Bioproducts and Biorefining</i> , 2017 , 11, 325-343	5.3	33
115	Upregulation of vacuolar H(+)-translocating pyrophosphatase by phosphate starvation of <i>Brassica napus</i> (rapeseed) suspension cell cultures. <i>FEBS Letters</i> , 2000 , 486, 155-8	3.8	33
114	Phosphate or phosphite addition promotes the proteolytic turnover of phosphate-starvation inducible tomato purple acid phosphatase isozymes. <i>FEBS Letters</i> , 2004 , 573, 51-4	3.8	31
113	Peptide mapping by CNBr fragmentation using a sodium dodecyl sulfate-polyacrylamide minigel system. <i>Analytical Biochemistry</i> , 1989 , 178, 391-3	3.1	31
112	Phosphoenolpyruvate carboxylase protein kinase from developing castor oil seeds: partial purification, characterization, and reversible control by photosynthate supply. <i>Planta</i> , 2007 , 226, 1299-310	4.7	29
111	Mycorrhizal associations and phosphorus acquisition: from cells to ecosystems 2015 , 409-439		28
110	Enhancement of photosynthetic performance, water use efficiency and grain yield during long-term growth under elevated CO ₂ in wheat and rye is growth temperature and cultivar dependent. <i>Environmental and Experimental Botany</i> , 2014 , 106, 207-220	5.9	28
109	Purification and characterization of cytosolic pyruvate kinase from leaves of the castor oil plant. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 333, 298-307	4.1	28
108	Binding of glycolytic enzymes to a particulate fraction in carrot and sugar beet storage roots : dependence on metabolic state. <i>Plant Physiology</i> , 1988 , 86, 348-51	6.6	28
107	Molecular and regulatory properties of leucoplast pyruvate kinase from <i>Brassica napus</i> (rapeseed) suspension cells. <i>Archives of Biochemistry and Biophysics</i> , 2002 , 400, 54-62	4.1	27
106	Plant cytosolic pyruvate kinase: a kinetic study. <i>BBA - Proteins and Proteomics</i> , 1992 , 1160, 213-20		27

105	Purification and characterization of pyrophosphate- and ATP-dependent phosphofructokinases from banana fruit. <i>Planta</i> , 2003 , 217, 113-21	4.7	26
104	Leucoplast Pyruvate Kinase from Developing Castor Oil Seeds : Characterization of the Enzyme's Degradation by a Cysteine Endopeptidase. <i>Plant Physiology</i> , 1991 , 97, 1334-8	6.6	26
103	Relationship between the Subunits of Leucoplast Pyruvate Kinase from <i>Ricinus communis</i> and a Comparison with the Enzyme from Other Sources. <i>Plant Physiology</i> , 1991 , 96, 1283-8	6.6	26
102	Purification and characterization of cytosolic aldolase from carrot storage root. <i>Biochemical Journal</i> , 1990 , 269, 133-9	3.8	26
101	Purification and properties of aerobic and anoxic forms of pyruvate kinase from the hepatopancreas of the channelled whelk, <i>Busycotypus canaliculatum</i> . <i>Archives of Biochemistry and Biophysics</i> , 1985 , 243, 195-205	4.1	26
100	Metabolic Adaptations of the Non-Mycotrophic Proteaceae to Soils With Low Phosphorus Availability 2015 , 289-335		25
99	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
98	Purification and characterization of banana fruit acid phosphatase. <i>Planta</i> , 2001 , 214, 243-9	4.7	24
97	Copurification of cytosolic fructose-1,6-bisphosphatase and cytosolic aldolase from endosperm of germinating castor oil seeds. <i>Archives of Biochemistry and Biophysics</i> , 1994 , 312, 326-35	4.1	24
96	Pyruvate-kinase isoenzymes from zygotic and microspore-derived embryos of <i>Brassica napus</i> : Developmental profiles and subunit composition. <i>Planta</i> , 1992 , 187, 198-202	4.7	24
95	Cloning and characterization of a cDNA for the cytosolic isozyme of plant pyruvate kinase: the relationship between the plant and non-plant enzyme. <i>Plant Molecular Biology</i> , 1990 , 15, 665-9	4.6	24
94	In vivo monoubiquitination of anaplerotic phosphoenolpyruvate carboxylase occurs at Lys624 in germinating sorghum seeds. <i>Journal of Experimental Botany</i> , 2014 , 65, 443-51	7	23
93	Activation of Cytosolic Pyruvate Kinase by Polyethylene Glycol. <i>Plant Physiology</i> , 1993 , 103, 285-288	6.6	23
92	Gas-liquid chromatography and enzymatic determination of alanopine and strombine in tissues of marine invertebrates. <i>Analytical Biochemistry</i> , 1982 , 125, 50-8	3.1	23
91	New insights into the post-translational modification of multiple phosphoenolpyruvate carboxylase isoenzymes by phosphorylation and monoubiquitination during sorghum seed development and germination. <i>Journal of Experimental Botany</i> , 2016 , 67, 3523-36	7	22
90	Suborganellar Localization and Molecular Characterization of Nonproteolytic Degraded Leucoplast Pyruvate Kinase from Developing Castor Oil Seeds. <i>Plant Physiology</i> , 1995 , 109, 1461-1469	6.6	22
89	Phosphorus: Back to the Roots 2015 , 1-22		21
88	Induction of PPI-dependent phosphofructokinase by phosphate starvation in seedlings of <i>Brassica nigra</i> . <i>Plant, Cell and Environment</i> , 1994 , 17, 287-294	8.4	21

87	Tissue specific isozymes of alanopine dehydrogenase in the channeled whelk <i>Busycotypus canaliculatum</i> . <i>Canadian Journal of Zoology</i> , 1982 , 60, 1568-1572	1.5	21
86	Alanopine dehydrogenase: Purification and characterization of the enzyme from <i>Littorina littorea</i> foot muscle. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1982 , 149, 57-65	2.2	21
85	Biochemical and molecular characterization of RcSUS1, a cytosolic sucrose synthase phosphorylated in vivo at serine 11 in developing castor oil seeds. <i>Journal of Biological Chemistry</i> , 2014 , 289, 33412-24	5.4	19
84	The role of inorganic phosphate in the regulation of C4 photosynthesis. <i>Photosynthesis Research</i> , 1993 , 35, 205-11	3.7	19
83	Regulatory Phosphorylation of Bacterial-Type PEP Carboxylase by the Ca-Dependent Protein Kinase RcCDPK1 in Developing Castor Oil Seeds. <i>Plant Physiology</i> , 2017 , 174, 1012-1027	6.6	18
82	Phosphate starvation-inducible pyrophosphate-dependent phosphofructokinase occurs in plants whose roots do not form symbiotic associations with mycorrhizal fungi. <i>Physiologia Plantarum</i> , 1998 , 103, 405-414	4.6	18
81	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
80	Characterization of asparaginyl endopeptidase activity in endosperm of developing and germinating castor oil seeds. <i>Physiologia Plantarum</i> , 1994 , 91, 599-604	4.6	17
79	Multifaceted functions of post-translational enzyme modifications in the control of plant glycolysis. <i>Current Opinion in Plant Biology</i> , 2020 , 55, 28-37	9.9	17
78	Phosphorylation of bacterial-type phosphoenolpyruvate carboxylase by a Ca ²⁺ -dependent protein kinase suggests a link between Ca ²⁺ signalling and anaplerotic pathway control in developing castor oil seeds. <i>Biochemical Journal</i> , 2014 , 458, 109-18	3.8	16
77	Activity and concentration of non-proteolyzed phosphoenolpyruvate carboxykinase in the endosperm of germinating castor oil seeds: effects of anoxia on its activity. <i>Physiologia Plantarum</i> , 2007 , 130, 484-494	4.6	16
76	Photosynthetic Carbon-Nitrogen Interactions: Modelling Inter-Pathway Control and Signalling	325-347	16
75	Phosphorylation of bacterial-type phosphoenolpyruvate carboxylase at Ser425 provides a further tier of enzyme control in developing castor oil seeds. <i>Biochemical Journal</i> , 2011 , 433, 65-74	3.8	15
74	Metabolite Transporters in the Control of Plant Primary Metabolism	85-120	15
73	Purification and characterization of cytosolic fructose-1, 6-bisphosphate aldolase from endosperm of germinated castor oil seeds. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 355, 189-96	4.1	15
72	Differential expression of cytosolic and plastid pyruvate kinase isozymes in tobacco. <i>Physiologia Plantarum</i> , 1995 , 95, 507-514	4.6	15
71	Effect of polyethylene glycol on the activity, intrinsic fluorescence, and oligomeric structure of castor seed cytosolic fructose-1,6-bisphosphatase. <i>FEBS Letters</i> , 1995 , 368, 559-62	3.8	15
70	The Role of Intracellular and Secreted Purple Acid Phosphatases in Plant Phosphorus Scavenging and Recycling	2015, 265-287	14

69	Purification and characterization of an allosteric fructose-1,6-bisphosphate aldolase from germinating mung beans (<i>Vigna radiata</i>). <i>Phytochemistry</i> , 2005 , 66, 968-74	4	14
68	Purification of a novel pyruvate kinase from a green alga. <i>FEBS Letters</i> , 1989 , 259, 130-132	3.8	14
67	Impact of roots, microorganisms and microfauna on the fate of soil phosphorus in the rhizosphere 2015 , 375-407		13
66	High-yield purification of potato tuber pyrophosphate: fructose-6-phosphate 1-phosphotransferase. <i>Protein Expression and Purification</i> , 1991 , 2, 29-33	2	13
65	Recent insights into the metabolic adaptations of phosphorus-deprived plants. <i>Journal of Experimental Botany</i> , 2021 , 72, 199-223	7	13
64	Phosphorus: Back to the Roots 2018 , 3-22		13
63	The bacterial-type phosphoenolpyruvate carboxylase isozyme from developing castor oil seeds is subject to in vivo regulatory phosphorylation at serine-451. <i>FEBS Letters</i> , 2012 , 586, 1049-54	3.8	12
62	Control of Sucrose Biosynthesis 234-257		12
61	Purification and characterization of cytosolic pyruvate kinase from banana fruit. <i>Biochemical Journal</i> , 2000 , 352, 875-882	3.8	12
60	Membrane remodelling in phosphorus-deficient plants 2015 , 237-263		11
59	The calcium-dependent protein kinase RcCDPK2 phosphorylates sucrose synthase at Ser11 in developing castor oil seeds. <i>Biochemical Journal</i> , 2016 , 473, 3667-3682	3.8	11
58	The signal metabolite trehalose-6-phosphate inhibits the sucrolytic activity of sucrose synthase from developing castor beans. <i>FEBS Letters</i> , 2018 , 592, 2525-2532	3.8	11
57	Purification and characterization of cytosolic pyruvate kinase from banana fruit. <i>Biochemical Journal</i> , 2000 , 352, 875	3.8	11
56	Potato tuber pyrophosphate-dependent phosphofructokinase: effect of thiols and polyalcohols on its intrinsic fluorescence, oligomeric structure, and activity in dilute solutions. <i>Archives of Biochemistry and Biophysics</i> , 1994 , 313, 50-7	4.1	11
55	Phosphite disrupts the acclimation of <i>Saccharomyces cerevisiae</i> to phosphate starvation. <i>Canadian Journal of Microbiology</i> , 2001 , 47, 969-978	3.2	11
54	Glycolysis. <i>Methods in Plant Biochemistry</i> , 1990 , 145-173		11
53	Phosphate Transporters 2015 , 125-158		10
52	Lyophilization pretreatment facilitates extraction of soluble proteins and active enzymes from the oil-accumulating microalga <i>Chlorella vulgaris</i> . <i>Algal Research</i> , 2017 , 25, 439-444	5	10

51	In vitro proteolysis of phosphoenolpyruvate carboxylase from developing castor oil seeds by an endogenous thiol endopeptidase. <i>Plant and Cell Physiology</i> , 2005 , 46, 1855-62	4.9	10
50	Disruption of the phosphate-starvation response of oilseed rape suspension cells by the fungicide phosphonate 1997 , 203, 67		10
49	Extraction and Characterization of Extracellular Proteins and Their Post-Translational Modifications from <i>Arabidopsis thaliana</i> Suspension Cell Cultures and Seedlings: A Critical Review. <i>Proteomes</i> , 2016 , 4,	4.6	10
48	Lectin AtGAL1 interacts with high-mannose glycoform of the purple acid phosphatase AtPAP26 secreted by phosphate-starved <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2019 , 42, 1158-1166	8.4	10
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