William C Plaxton

List of Publications by Year
in descending order

174 papers	11,398 citations	31974 53 h-index	34984 98 g-index
218 all docs	218 docs citations	218 times ranked	7496 citing authors

#	Article	IF	Citations
1	THE ORGANIZATION AND REGULATION OF PLANT GLYCOLYSIS. Annual Review of Plant Biology, 1996, 47, 185-214.	14.3	816
2	Opportunities for improving phosphorusâ€use efficiency in crop plants. New Phytologist, 2012, 195, 306-320.	7.3	702
3	The role of acid phosphatases in plant phosphorus metabolism. Physiologia Plantarum, 1994, 90, 791-800.	5.2	554
4	Metabolic Adaptations of Phosphate-Starved Plants. Plant Physiology, 2011, 156, 1006-1015.	4.8	484
5	The Functional Organization and Control of Plant Respiration. Critical Reviews in Plant Sciences, 2006, 25, 159-198.	5.7	408
6	Metabolic Adaptations of Plant Respiration to Nutritional Phosphate Deprivation. Plant Physiology, 1993, 101, 339-344.	4.8	340
7	Phosphate Starvation Inducible `Bypasses' of Adenylate and Phosphate Dependent Glycolytic Enzymes in Brassica nigra Suspension Cells. Plant Physiology, 1989, 90, 1275-1278.	4.8	274
8	The remarkable diversity of plant PEPC (phosphoenolpyruvate carboxylase): recent insights into the physiological functions and post-translational controls of non-photosynthetic PEPCs. Biochemical Journal, 2011, 436, 15-34.	3.7	267
9	Feeding hungry plants: The role of purple acid phosphatases in phosphate nutrition. Plant Science, 2010, 179, 14-27.	3.6	228
10	PHOSPHITE (PHOSPHOROUS ACID): ITS RELEVANCE IN THE ENVIRONMENT AND AGRICULTURE AND INFLUENCE ON PLANT PHOSPHATE STARVATION RESPONSE. Journal of Plant Nutrition, 2001, 24, 1505-1519.	1.9	185
11	Purification and Properties of Nonproteolytic Degraded ADPglucose Pyrophosphorylase from Maize Endosperm. Plant Physiology, 1987, 83, 105-112.	4.8	180
12	Trehalose 6â€“phosphate coordinates organic and amino acid metabolism with carbon availability. Plant Journal, 2016, 85, 410-423.	5.7	176
13	Effects of Phosphorus Limitation on Respiratory Metabolism in the Green Alga Selenastrum minutum. Plant Physiology, 1991, 95, 1089-1095.	4.8	152
14	Biochemical and Molecular Characterization of AtPAP26, a Vacuolar Purple Acid Phosphatase Up-Regulated in Phosphate-Deprived Arabidopsis Suspension Cells and Seedlings. Plant Physiology, 2006, 142, 1282-1293.	4.8	136
15	The Dual-Targeted Purple Acid Phosphatase Isozyme AtPAP26 Is Essential for Efficient Acclimation of Arabidopsis to Nutritional Phosphate Deprivation Â Â Â. Plant Physiology, 2010, 153, 1112-1122.	4.8	135
16	The Fungicide Phosphonate Disrupts the Phosphate-Starvation Response in Brassica nigra Seedlings. Plant Physiology, 1996, 110, 105-110.	4.8	132
17	Purification and characterization of two secreted purple acid phosphatase isozymes from phosphate-starved tomato (Lycopersicon esculentum) cell cultures. FEBS Journal, 2002, 269, 6278-6286.	0.2	132
18	Response to Phosphate Deprivation in Brassica nigra Suspension Cells. Plant Physiology, 1990, 93, 504-511.	4.8	128

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19	Biochemical and molecular characterization of AtPAP12 and AtPAP26: the predominant purple acid phosphatase isozymes secreted by phosphateâ€starved Arabidopsis thaliana. Plant, Cell and Environment, 2010, 33, 1789-1803.	5.7	123
20	Phosphorus nutrition in Proteaceae and beyond. Nature Plants, 2015, 1, 15109.	9.3	122
21	The secreted purple acid phosphatase isozymes AtPAP12 and AtPAP26 play a pivotal role in extracellular phosphate-scavenging by Arabidopsis thaliana. Journal of Experimental Botany, 2012, 63, 6531-6542.	4.8	118
22	Phosphate-starvation response in plant cells: de novo synthesis and degradation of acid phosphatases.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 9538-9542.	7.1	110
23	Molecular and immunological characterization of plastid and cytosolic pyruvate kinase isozymes from castor-oil-plant endosperm and leaf. FEBS Journal, 1989, 181, 443-451.	0.2	107
24	Disruption of the phosphate-starvation response of oilseed rape suspension cells by the fungicide phosphonate. Planta, 1997, 203, 67-74.	3.2	107
25	In vivo regulatory phosphorylation of the phosphoenolpyruvate carboxylase AtPPC1 in phosphate-starved Arabidopsis thaliana. Biochemical Journal, 2009, 420, 57-65.	3.7	103
26	Eliminating the purple acid phosphatase At<scp>PAP</scp>26 in Arabidopsis thaliana delays leaf senescence and impairs phosphorus remobilization. New Phytologist, 2012, 196, 1024-1029.	7.3	103
27	Purification and Characterization of a Phosphoenolpyruvate Phosphatase from Brassica nigra Suspension Cells. Plant Physiology, 1989, 90, 734-741.	4.8	97
28	Relationship between NH⁺₄ Assimilation Rate and in Vivo Phosphoenolpyruvate Carboxylase Activity. Plant Physiology, 1990, 94, 284-290.	4.8	94
29	Structural and kinetic properties of a novel purple acid phosphatase from phosphate-starved tomato (Lycopersicon esculentum) cell cultures. Biochemical Journal, 2004, 377, 419-428.	3.7	93
30	Molecular Mechanisms of Phosphorus Metabolism and Transport during Leaf Senescence. Plants, 2015, 4, 773-798.	3.5	88
31	Proteomic analysis of alterations in the secretome of Arabidopsis thaliana suspension cells subjected to nutritional phosphate deficiency. Proteomics, 2008, 8, 4317-4326.	2.2	86
32	Differential synthesis of phosphate-starvation inducible purple acid phosphatase isozymes in tomato (Lycopersicon esculentum) suspension cells and seedlings. Plant, Cell and Environment, 2006, 29, 303-313.	5.7	79
33	Purification and properties of aerobic and anoxic forms of pyruvate kinase from red muscle tissue of the channelled whelk, Busycotypus canaliculatum. FEBS Journal, 1984, 143, 257-265.	0.2	75
34	Regulation of Phosphoenolpyruvate Carboxylase from the Green Alga Selenastrum minutum. Plant Physiology, 1990, 93, 1303-1311.	4.8	75
35	Pyruvate kinase isozymes from the green alga, Selenastrum minutum. Archives of Biochemistry and Biophysics, 1989, 269, 228-238.	3.0	74
36	Molecular mechanisms underpinning phosphorusâ€use efficiency in rice. Plant, Cell and Environment, 2018, 41, 1483-1496.	5.7	74

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37	Purification and Characterization of a Potato Tuber Acid Phosphatase Having Significant Phosphotyrosine Phosphatase Activity. Plant Physiology, 1994, 106, 223-232.	4.8	73
38	Purification and characterization of phosphoenolpyruvate carboxylase from Brassica napus (rapeseed) suspension cell cultures. FEBS Journal, 2000, 267, 4465-4476.	0.2	72
39	The role of acid phosphatases in plant phosphorus metabolism. Physiologia Plantarum, 1994, 90, 791-800.	5.2	71
40	Phosphorylation in vivo of red-muscle pyruvate kinase from the channelled whelk, Busycotypus canaliculatum, in response to anoxic stress. FEBS Journal, 1984, 143, 267-272.	0.2	69
41	Phosphoenolpyruvate Carboxylase Activity and Concentration in the Endosperm of Developing and Germinating Castor Oil Seeds. Plant Physiology, 1992, 99, 445-449.	4.8	69
42	Recent insights into the metabolic adaptations of phosphorus-deprived plants. Journal of Experimental Botany, 2021, 72, 199-223.	4.8	69
43	From Genome to Enzyme: Analysis of Key Glycolytic and Oxidative Pentose-Phosphate Pathway Enzymes in the Cyanobacterium Synechocystis sp. PCC 6803. Plant and Cell Physiology, 2003, 44, 758-763.	3.1	68
44	Bacterialâ€•and plantâ€type phosphoenolpyruvate carboxylase polypeptides interact in the heteroâ€oligomeric Classâ€2 PEPC complex of developing castor oil seeds. Plant Journal, 2007, 52, 839-849.	5.7	68
45	Purification and characterization of cytosolic pyruvate kinase from Brassica napus (rapeseed) suspension cell cultures. FEBS Journal, 2000, 267, 4477-4485.	0.2	66
46	Senescence-inducible cell wall and intracellular purple acid phosphatases: implications for phosphorus remobilization in Hakea prostrata (Proteaceae) and Arabidopsis thaliana (Brassicaceae). Journal of Experimental Botany, 2014, 65, 6097-6106.	4.8	66
47	Purification and characterization of a novel phosphoenolpyruvate carboxylase from banana fruit. Biochemical Journal, 1995, 307, 807-816.	3.7	65
48	Regulatory Monoubiquitination of Phosphoenolpyruvate Carboxylase in Germinating Castor Oil Seeds. Journal of Biological Chemistry, 2008, 283, 29650-29657.	3.4	63
49	Kinetic and regulatory properties of cytosolic pyruvate kinase from germinating castor oil seeds. Biochemical Journal, 1991, 279, 495-501.	3.7	62
50	Normal Growth of Transgenic Tobacco Plants in the Absence of Cytosolic Pyruvate Kinase. Plant Physiology, 1992, 100, 820-825.	4.8	62
51	Pyruvate kinase isozymes from the green alga, Selenastrum minutum. Archives of Biochemistry and Biophysics, 1989, 269, 219-227.	3.0	58
52	The cell wallâ€targeted purple acid phosphatase At<scp>PAP</scp>25 is critical for acclimation of ArabidopsisÂthaliana to nutritional phosphorus deprivation. Plant Journal, 2014, 80, 569-581.	5.7	58
53	Structural and Kinetic Properties of High and Low Molecular Mass Phosphoenolpyruvate Carboxylase Isoforms from the Endosperm of Developing Castor Oilseeds. Journal of Biological Chemistry, 2003, 278, 11867-11873.	3.4	55
54	Cytosolic pyruvate kinase: subunit composition, activity, and amount in developing castor and soybean seeds, and biochemical characterization of the purified castor seed enzyme. Planta, 2005, 222, 1051-1062.	3.2	54

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55	Reciprocal Control of Anaplerotic Phosphoenolpyruvate Carboxylase by in Vivo Monoubiquitination and Phosphorylation in Developing Proteoid Roots of Phosphate-Deficient Harsh Hakea Â Â. Plant Physiology, 2013, 161, 1634-1644.	4.8	54
56	Regulation of cytosolic carbon metabolism in germinating Ricinus communis cotyledons. Planta, 1994, 194, 374-380.	3.2	53
57	Regulation of cytosolic carbon metabolism in germinating Ricinus communis cotyledons. Planta, 1994, 194, 381-387.	3.2	53
58	Purification and characterization of high- and low-molecular-mass isoforms of phosphoenolpyruvate carboxylase from Chlamydomonas reinhardtii. Biochemical Journal, 1998, 331, 201-209.	3.7	53
59	Metabolite Regulation of Partially Purified Soybean Nodule Phosphoenolpyruvate Carboxylase. Plant Physiology, 1990, 94, 1429-1435.	4.8	52
60	Bacterial-type Phosphoenolpyruvate Carboxylase (PEPC) Functions as a Catalytic and Regulatory Subunit of the Novel Class-2 PEPC Complex of Vascular Plants. Journal of Biological Chemistry, 2009, 284, 24797-24805.	3.4	51
61	Purification, characterization, and subcellular localization of an acid phosphatase from black mustard cell-suspension cultures: Comparison with phosphoenolpyruvate phosphatase. Archives of Biochemistry and Biophysics, 1991, 286, 226-232.	3.0	50
62	Plant Response to Stress: Biochemical Adaptations to Phosphate Deficiency. , 2004, , 976-980.		50
63	Glycolytic enzyme binding and metabolic control in anaerobiosis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1986, 156, 635-640.	1.5	48
64	Purification of Pyruvate Kinase from Germinating Castor Bean Endosperm. Plant Physiology, 1988, 86, 1064-1069.	4.8	48
65	Two Unrelated Phosphoenolpyruvate Carboxylase Polypeptides Physically Interact in the High Molecular Mass Isoforms of This Enzyme in the Unicellular Green Alga Selenastrum minutum. Journal of Biological Chemistry, 2001, 276, 12588-12597.	3.4	46
66	In Vivo Regulatory Phosphorylation of Novel Phosphoenolpyruvate Carboxylase Isoforms in Endosperm of Developing Castor Oil Seeds. Plant Physiology, 2005, 139, 969-978.	4.8	46
67	Photosynthesis and Carbon Partitioning in Transgenic Tobacco Plants Deficient in Leaf Cytosolic Pyruvate Kinase1. Plant Physiology, 1999, 120, 887-896.	4.8	45
68	Altered Growth of Transgenic Tobacco Lacking Leaf Cytosolic Pyruvate Kinase1. Plant Physiology, 1998, 116, 45-51.	4.8	43
69	Tissue-specific expression and post-translational modifications of plant- and bacterial-type phosphoenolpyruvate carboxylase isozymes of the castor oil plant, Ricinus communis L.. Journal of Experimental Botany, 2011, 62, 5485-5495.	4.8	42
70	Multifaceted functions of post-translational enzyme modifications in the control of plant glycolysis. Current Opinion in Plant Biology, 2020, 55, 28-37.	7.1	42
71	Purification and Characterization of Pyrophosphate-Dependent Phosphofructokinase from Phosphate-Starved Brassica nigra Suspension Cells. Plant Physiology, 1996, 112, 343-351.	4.8	41
72	Phosphite accelerates programmed cell death in phosphate-starved oilseed rape (Brassica napus) suspension cell cultures. Planta, 2003, 218, 233-239.	3.2	41

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73	Coimmunopurification of Phosphorylated Bacterial- and Plant-Type Phosphoenolpyruvate Carboxylases with the Plastidial Pyruvate Dehydrogenase Complex from Developing Castor Oil Seeds Â Â Â. Plant Physiology, 2008, 146, 1346-1357.	4.8	41
74	Bacterialâ€•and plantâ€type phosphoenolpyruvate carboxylase isozymes from developing castor oil seeds interact in vivo and associate with the surface of mitochondria. Plant Journal, 2012, 71, 251-262.	5.7	41
75	Tissue specific isozymes of pyruvate kinase in the channelled whelkBusycotypus canaliculatum: enzyme modification in response to environmental anoxia. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1985, 155, 291-296.	1.5	40
76	Structural and Regulatory Properties of Pyruvate Kinase from the Cyanobacterium Synechococcus PCC 6301. Journal of Biological Chemistry, 2001, 276, 20966-20972.	3.4	40
77	Microalgal cultivation with waste streams and metabolic constraints to triacylglycerides accumulation for biofuel production. Biofuels, Bioproducts and Biorefining, 2017, 11, 325-343.	3.7	40
78	Regulatory Phosphorylation of Banana Fruit Phosphoenolpyruvate Carboxylase by a Copurifying Phosphoedpyruvate Carboxylase-Kinase. FEBS Journal, 1997, 247, 642-651.	0.2	39
79	Upregulation of vacuolar H+ -translocating pyrophosphatase by phosphate starvation of Brassica napus (rapeseed) suspension cell cultures. FEBS Letters, 2000, 486, 155-158.	2.8	38
80	Phosphite disrupts the acclimation of Saccharomyces cerevisiae to phosphate starvation. Canadian Journal of Microbiology, 2001, 47, 969-978.	1.7	38
81	Purification of Leucoplast Pyruvate Kinase from Developing Castor Bean Endosperm. Plant Physiology, 1990, 94, 1528-1534.	4.8	37
82	Purification and Properties of Four Phosphoenolpyruvate Carboxylase Isoforms from the Green AlgaSelenastrum minutum:Evidence That Association of the 102-kDa Catalytic Subunit with Unrelated Polypeptides May Modify the Physical and Kinetic Properties of the Enzyme. Archives of Biochemistry and Biophysics, 1996, 332, 47-57.	3.0	37
83	Enhancement of photosynthetic performance, water use efficiency and grain yield during long-term growth under elevated CO2 in wheat and rye is growth temperature and cultivar dependent. Environmental and Experimental Botany, 2014, 106, 207-220.	4.2	35
84	Purification and Characterization of Cytosolic Pyruvate Kinase from Leaves of the Castor Oil Plant. Archives of Biochemistry and Biophysics, 1996, 333, 298-307.	3.0	34
85	Phosphate or phosphite addition promotes the proteolytic turnover of phosphate-starvation inducible tomato purple acid phosphatase isozymes. FEBS Letters, 2004, 573, 51-54.	2.8	34
86	Peptide mapping by CNBr fragmentation using a sodium dodecyl sulfate-polyacrylamide minigel system. Analytical Biochemistry, 1989, 178, 391-393.	2.4	32
87	Molecular and Regulatory Properties of Leucoplast Pyruvate Kinase from Brassica napus (Rapeseed) Suspension Cells. Archives of Biochemistry and Biophysics, 2002, 400, 54-62.	3.0	32
88	In vivomonoubiquitination of anaplerotic phosphoenolpyruvate carboxylase occurs at Lys624 in germinating sorghum seeds. Journal of Experimental Botany, 2014, 65, 443-451.	4.8	32
89	New insights into the post-translational modification of multiple phosphoenolpyruvate carboxylase isoenzymes by phosphorylation and monoubiquitination during sorghum seed development and germination. Journal of Experimental Botany, 2016, 67, 3523-3536.	4.8	32
90	Plant cytosolic pyruvate kinase: a kinetic study. BBA - Proteins and Proteomics, 1992, 1160, 213-220.	2.1	31

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91	Purification and characterization of banana fruit acid phosphatase. Planta, 2001, 214, 243-249.	3.2	31
92	Purification and characterization of pyrophosphate- and ATP-dependent phosphofructokinases from banana fruit. Planta, 2003, 217, 113-121.	3.2	30
93	Phosphoenolpyruvate carboxylase protein kinase from developing castor oil seeds: partial purification, characterization, and reversible control by photosynthate supply. Planta, 2007, 226, 1299-1310.	3.2	30
94	Binding of Glycolytic Enzymes to a Particulate Fraction in Carrot and Sugar Beet Storage Roots. Plant Physiology, 1988, 86, 348-351.	4.8	29
95	Purification and characterization of cytosolic aldolase from carrot storage root. Biochemical Journal, 1990, 269, 133-139.	3.7	29
96	Purification and properties of aerobic and anoxic forms of pyruvate kinase from the hepatopancreas of the channelled whelk, Busycotypus canaliculatum. Archives of Biochemistry and Biophysics, 1985, 243, 195-205.	3.0	28
97	Relationship between the Subunits of Leucoplast Pyruvate Kinase from Ricinus communis and a Comparison with the Enzyme from Other Sources. Plant Physiology, 1991, 96, 1283-1288.	4.8	28
98	Pyruvate-kinase isoenzymes from zygotic and microspore-derived embryos of Brassica napus. Planta, 1992, 187, 198-202.	3.2	27
99	Copurification of Cytosolic Fructose-1,6-bisphosphatase and Cytosolic Aldolase from Endosperm of Germinating Castor Oil Seeds. Archives of Biochemistry and Biophysics, 1994, 312, 326-335.	3.0	27
100	Leucoplast Pyruvate Kinase from Developing Castor Oil Seeds. Plant Physiology, 1991, 97, 1334-1338.	4.8	26
101	Induction of PPi-dependent phosphofructokinase by phosphate starvation in seedlings of Brassica nigra. Plant, Cell and Environment, 1994, 17, 287-294.	5.7	26
102	The signal metabolite trehaloseâ€6â€phosphate inhibits the sucrolytic activity of sucrose synthase from developing castor beans. FEBS Letters, 2018, 592, 2525-2532.	2.8	26
103	Cloning and characterization of a cDNA for the cytosolic isozyme of plant pyruvate kinase: the relationship between the plant and non-plant enzyme. Plant Molecular Biology, 1990, 15, 665-669.	3.9	25
104	Suborganellar Localization and Molecular Characterization of Nonproteolytic Degraded Leukoplast Pyruvate Kinase from Developing Castor Oil Seeds. Plant Physiology, 1995, 109, 1461-1469.	4.8	25
105	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. Analytical Biochemistry, 2002, 300, 94-99.	2.4	25
106	Tissue specific isozymes of alanopine dehydrogenase in the channeled whelk Busycotypus canaliculatum. Canadian Journal of Zoology, 1982, 60, 1568-1572.	1.0	24
107	Activation of Cytosolic Pyruvate Kinase by Polyethylene Glycol. Plant Physiology, 1993, 103, 285-288.	4.8	24
108	Biochemical and Molecular Characterization of RcSUS1, a Cytosolic Sucrose Synthase Phosphorylated in Vivo at Serine 11 in Developing Castor Oil Seeds. Journal of Biological Chemistry, 2014, 289, 33412-33424.	3.4	24

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109	Regulatory Phosphorylation of Bacterial-Type PEP Carboxylase by the Ca2+-Dependent Protein Kinase RcCDPK1 in Developing Castor Oil Seeds. Plant Physiology, 2017, 174, 1012-1027.	4.8	24
110	Phosphate and phosphite have a differential impact on the proteome and phosphoproteome of Arabidopsis suspension cell cultures. Plant Journal, 2021, 105, 924-941.	5.7	24
111	Gas-liquid chromatography and enzymatic determination of alanopine and strombine in tissues of marine invertebrates. Analytical Biochemistry, 1982, 125, 50-58.	2.4	23
112	Alanopine dehydrogenase: Purification and characterization of the enzyme fromLittorina littorea foot muscle. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1982, 149, 57-65.	1.5	23
113	The role of inorganic phosphate in the regulation of C4 photosynthesis. Photosynthesis Research, 1993, 35, 205-211.	2.9	23
114	Phosphate starvation-inducible pyrophosphate-dependent phosphofructokinase occurs in plants whose roots do not form symbiotic associations with mycorrhizal fungi. Physiologia Plantarum, 1998, 103, 405-414.	5.2	23
115	A glycoform of the secreted purple acid phosphatase <scp>AtPAP26</scp> coâ€purifies with a mannoseâ€binding lectin (<scp>AtGAL1</scp>) upregulated by phosphateâ€starved Arabidopsis. Plant, Cell and Environment, 2019, 42, 1139-1157.	5.7	21
116	Purification of a novel pyruvate kinase from a green alga. FEBS Letters, 1989, 259, 130-132.	2.8	20
117	Activity and concentration of non-proteolyzed phosphoenolpyruvate carboxykinase in the endosperm of germinating castor oil seeds: effects of anoxia on its activity. Physiologia Plantarum, 2007, 130, 484-494.	5.2	20
118	Characterization of asparaginyl endopeptidase activity in endosperm of developing and germinating castor oil seeds. Physiologia Plantarum, 1994, 91, 599-604.	5.2	18
119	Photosynthetic Carbonâ€“Nitrogen Interactions: Modelling Inter-Pathway Control and Signalling. , 0, , 325-347.		18
120	Control of Sucrose Biosynthesis. , 0, , 234-257.		18
121	Metabolite Transporters in the Control of Plant Primary Metabolism. , 0, , 85-120.		18
122	Phosphorylation of bacterial-type phosphoenolpyruvate carboxylase by a Ca2+-dependent protein kinase suggests a link between Ca2+ signalling and anaplerotic pathway control in developing castor oil seeds. Biochemical Journal, 2014, 458, 109-118.	3.7	18
123	Purification and characterization of cytosolic pyruvate kinase from banana fruit. Biochemical Journal, 2000, 352, 875-882.	3.7	18
124	In Vitro Phosphorylation of Phosphoenolpyruvate Carboxylase from the Green Alga Selenastrum minutum. Plant and Cell Physiology, 2002, 43, 785-792.	3.1	17
125	Phosphorylation of bacterial-type phosphoenolpyruvate carboxylase at Ser425 provides a further tier of enzyme control in developing castor oil seeds. Biochemical Journal, 2011, 433, 65-74.	3.7	17
126	The calcium-dependent protein kinase RcCDPK2 phosphorylates sucrose synthase at Ser11 in developing castor oil seeds. Biochemical Journal, 2016, 473, 3667-3682.	3.7	17

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127	Lyophilization pretreatment facilitates extraction of soluble proteins and active enzymes from the oil-accumulating microalga Chlorella vulgaris. Algal Research, 2017, 25, 439-444.	4.6	17
128	Effect of polyethylene glycol on the activity, intrinsic fluorescence, and oligomeric structure of castor seed cytosolic fructose-1, 6-bisphosphatase. FEBS Letters, 1995, 368, 559-562.	2.8	16
129	Purification and Characterization of Cytosolic Fructose-1,6-bisphosphate Aldolase from Endosperm of Germinated Castor Oil Seeds. Archives of Biochemistry and Biophysics, 1998, 355, 189-196.	3.0	16
130	Transcriptional and post-translational upregulation of phosphoenolpyruvate carboxylase in Arabidopsis thaliana (L. Heynh) under cadmium stress. Environmental and Experimental Botany, 2019, 164, 29-39.	4.2	16
131	Differential expression of cytosolic and plastid pyruvate kinase isozymes in tobacco. Physiologia Plantarum, 1995, 95, 507-514.	5.2	15
132	Purification and characterization of an allosteric fructose-1,6-bisphosphate aldolase from germinating mung beans (Vigna radiata). Phytochemistry, 2005, 66, 968-974.	2.9	15
133	The bacterialâ€type phosphoenolpyruvate carboxylase isozyme from developing castor oil seeds is subject to in vivo regulatory phosphorylation at serineâ€451. FEBS Letters, 2012, 586, 1049-1054.	2.8	15
134	Avoiding Proteolysis during the Extraction and Purification of Active Plant Enzymes. Plant and Cell Physiology, 2019, 60, 715-724.	3.1	15
135	Lectin AtGAL1 interacts with highâ€mannose glycoform of the purple acid phosphatase AtPAP26 secreted by phosphateâ€starved Arabidopsis. Plant, Cell and Environment, 2019, 42, 1158-1166.	5.7	15
136	High-yield purification of potato tuber pyrophosphate: Fructose-6-phosphate 1-phosphotransferase. Protein Expression and Purification, 1991, 2, 29-33.	1.3	14
137	Potato Tuber Pyrophosphate-Dependent Phosphofructokinase: Effect of Thiols and Polyalcohols on Its Intrinsic Fluorescence, Oligomeric Structure, and Activity in Dilute Solutions. Archives of Biochemistry and Biophysics, 1994, 313, 50-57.	3.0	12
138	Purification and characterization of cytosolic pyruvate kinase from banana fruit. Biochemical Journal, 2000, 352, 875.	3.7	12
139	The Organization and Control of Plant Mitochondrial Metabolism. , 0, , 290-324.		12
140	Extraction and Characterization of Extracellular Proteins and Their Post-Translational Modifications from Arabidopsis thaliana Suspension Cell Cultures and Seedlings: A Critical Review. Proteomes, 2016, 4, 25.	3.5	12
141	Arabidopsis PAP17 is a dual-localized purple acid phosphatase up-regulated during phosphate deprivation, senescence, and oxidative stress. Journal of Experimental Botany, 2022, 73, 382-399.	4.8	12
142	Disruption of the phosphate-starvation response of oilseed rape suspension cells by the fungicide phosphonate. Planta, 1997, 203, 67-74.	3.2	12
143	Glycolysis. Methods in Plant Biochemistry, 1990, , 145-173.	0.2	12
144	Fluorescence study of ligand binding to potato tuber pyrophosphate-dependent phosphofructokinase: evidence for competitive binding between fructose-1,6-bisphosphate and fructose-2,6-bisphosphate. Archives of Biochemistry and Biophysics, 2003, 414, 101-107.	3.0	11

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145	In vitro Proteolysis of Phosphoenolpyruvate Carboxylase from Developing Castor Oil Seeds by an Endogenous Thiol Endopeptidase. Plant and Cell Physiology, 2005, 46, 1855-1862.	3.1	11
146	Light-dependent activation of phosphoenolpyruvate carboxylase by reversible phosphorylation in cluster roots of white lupin plants: diurnal control in response to photosynthate supply. Annals of Botany, 2016, 118, 637-643.	2.9	11
147	Phosphite disrupts the acclimation of Saccharomyces cerevisiae to phosphate starvation. Canadian Journal of Microbiology, 2001, 47, 969-978.	1.7	11
148	Association of Phosphoenolpyruvate Phosphatase Activity with the Cytosolic Pyruvate Kinase of Germinating Mung Beans. Plant Physiology, 1991, 97, 1329-1333.	4.8	10
149	Purification and properties of alanopine dehydrogenase isozymes from the channeled whelk, Busycotypus canaliculatum. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1983, 76, 321-326.	0.2	9
150	Evidence for an interaction between cytosolic aldolase and the ATP- and pyrophosphate-dependent phosphofructokinases in carrot storage roots. FEBS Letters, 1992, 313, 277-280.	2.8	9
151	Control of Sulfur Uptake, Assimilation and Metabolism. , 0, , 348-372.		8
152	Control of Carbon Fixation in Chloroplasts. , 0, , 187-218.		8
153	Mechanisms and Functions of Post-translational Enzyme Modifications in the Organization and Control of Plant Respiratory Metabolism. Advances in Photosynthesis and Respiration, 2017, , 261-284.	1.0	8
154	Transcript profiling indicates a widespread role for bacterial-type phosphoenolpyruvate carboxylase in malate-accumulating sink tissues. Journal of Experimental Botany, 2017, 68, 5857-5869.	4.8	7
155	Response of aromatic pathway enzymes of plant suspension cells to phosphate limitation. Bioorganic and Medicinal Chemistry Letters, 1993, 3, 1415-1420.	2.2	6
156	Coimmunoprecipitation of reversibly glycosylated polypeptide with sucrose synthase from developing castor oilseeds. FEBS Letters, 2017, 591, 3872-3880.	2.8	6
157	Control of Phosphoenolpyruvate Carboxylase in Plants. , 0, , 219-233.		4
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