

William C Plaxton

List of Publications by Year in descending order

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31902

53
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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.	14.2	816
2	Opportunities for improving phosphorus use efficiency in crop plants. New Phytologist, 2012, 195, 306-320.	3.5	702
3	The role of acid phosphatases in plant phosphorus metabolism. Physiologia Plantarum, 1994, 90, 791-800.	2.6	554
4	Metabolic Adaptations of Phosphate-Starved Plants. Plant Physiology, 2011, 156, 1006-1015.	2.3	484
5	The Functional Organization and Control of Plant Respiration. Critical Reviews in Plant Sciences, 2006, 25, 159-198.	2.7	408
6	Metabolic Adaptations of Plant Respiration to Nutritional Phosphate Deprivation. Plant Physiology, 1993, 101, 339-344.	2.3	340
7	Phosphate Starvation Inducible 'Bypasses' of Adenylate and Phosphate Dependent Glycolytic Enzymes in <i>Brassica nigra</i> Suspension Cells. Plant Physiology, 1989, 90, 1275-1278.	2.3	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.	1.7	267
9	Feeding hungry plants: The role of purple acid phosphatases in phosphate nutrition. Plant Science, 2010, 179, 14-27.	1.7	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.	0.9	185
11	Purification and Properties of Nonproteolytic Degraded ADPglucose Pyrophosphorylase from Maize Endosperm. Plant Physiology, 1987, 83, 105-112.	2.3	180
12	Trehalose 6-phosphate coordinates organic and amino acid metabolism with carbon availability. Plant Journal, 2016, 85, 410-423.	2.8	176
13	Effects of Phosphorus Limitation on Respiratory Metabolism in the Green Alga <i>Selenastrum minutum</i> . Plant Physiology, 1991, 95, 1089-1095.	2.3	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.	2.3	136
15	The Dual-Targeted Purple Acid Phosphatase Isozyme AtPAP26 Is Essential for Efficient Acclimation of Arabidopsis to Nutritional Phosphate Deprivation. Plant Physiology, 2010, 153, 1112-1122.	2.3	135
16	The Fungicide Phosphonate Disrupts the Phosphate-Starvation Response in Brassica nigra Seedlings. Plant Physiology, 1996, 110, 105-110.	2.3	132
17	Purification and characterization of two secreted purple acid phosphatase isozymes from phosphate-starved tomato (<i>Lycopersicon esculentum</i>) cell cultures. FEBS Journal, 2002, 269, 6278-6286.	0.2	132
18	Response to Phosphate Deprivation in <i>Brassica nigra</i> Suspension Cells. Plant Physiology, 1990, 93, 504-511.	2.3	128

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19	Biochemical and molecular characterization of AtPAP12 and AtPAP26: the predominant purple acid phosphatase isozymes secreted by phosphate-starved <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2010, 33, 1789-1803.	2.8	123
20	Phosphorus nutrition in Proteaceae and beyond. <i>Nature Plants</i> , 2015, 1, 15109.	4.7	122
21	The secreted purple acid phosphatase isozymes AtPAP12 and AtPAP26 play a pivotal role in extracellular phosphate-scavenging by <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2012, 63, 6531-6542.	2.4	118
22	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, 9538-9542.	3.3	110
23	Molecular and immunological characterization of plastid and cytosolic pyruvate kinase isozymes from castor-oil-plant endosperm and leaf. <i>FEBS Journal</i> , 1989, 181, 443-451.	0.2	107
24	Disruption of the phosphate-starvation response of oilseed rape suspension cells by the fungicide phosphonate. <i>Planta</i> , 1997, 203, 67-74.	1.6	107
25	<i>In vivo</i> regulatory phosphorylation of the phosphoenolpyruvate carboxylase AtPPC1 in phosphate-starved <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2009, 420, 57-65.	1.7	103
26	Eliminating the purple acid phosphatase AtPAP26 in <i>Arabidopsis thaliana</i> delays leaf senescence and impairs phosphorus remobilization. <i>New Phytologist</i> , 2012, 196, 1024-1029.	3.5	103
27	Purification and Characterization of a Phosphoenolpyruvate Phosphatase from <i>Brassica nigra</i> Suspension Cells. <i>Plant Physiology</i> , 1989, 90, 734-741.	2.3	97
28	Relationship between NH_4 Assimilation Rate and <i>In Vivo</i> Phosphoenolpyruvate Carboxylase Activity. <i>Plant Physiology</i> , 1990, 94, 284-290.	2.3	94
29	Structural and kinetic properties of a novel purple acid phosphatase from phosphate-starved tomato (<i>Lycopersicon esculentum</i>) cell cultures. <i>Biochemical Journal</i> , 2004, 377, 419-428.	1.7	93
30	Molecular Mechanisms of Phosphorus Metabolism and Transport during Leaf Senescence. <i>Plants</i> , 2015, 4, 773-798.	1.6	88
31	Proteomic analysis of alterations in the secretome of <i>Arabidopsis thaliana</i> suspension cells subjected to nutritional phosphate deficiency. <i>Proteomics</i> , 2008, 8, 4317-4326.	1.3	86
32	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, 303-313.	2.8	79
33	Purification and properties of aerobic and anoxic forms of pyruvate kinase from red muscle tissue of the channelled whelk, <i>Busycotypus canaliculatum</i> . <i>FEBS Journal</i> , 1984, 143, 257-265.	0.2	75
34	Regulation of Phosphoenolpyruvate Carboxylase from the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 93, 1303-1311.	2.3	75
35	Pyruvate kinase isozymes from the green alga, <i>Selenastrum minutum</i> . <i>Archives of Biochemistry and Biophysics</i> , 1989, 269, 228-238.	1.4	74
36	Molecular mechanisms underpinning phosphorus-use efficiency in rice. <i>Plant, Cell and Environment</i> , 2018, 41, 1483-1496.	2.8	74

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37	Purification and Characterization of a Potato Tuber Acid Phosphatase Having Significant Phosphotyrosine Phosphatase Activity. <i>Plant Physiology</i> , 1994, 106, 223-232.	2.3	73
38	Purification and characterization of phosphoenolpyruvate carboxylase from <i>Brassica napus</i> (rapeseed) suspension cell cultures. <i>FEBS Journal</i> , 2000, 267, 4465-4476.	0.2	72
39	The role of acid phosphatases in plant phosphorus metabolism. <i>Physiologia Plantarum</i> , 1994, 90, 791-800.	2.6	71
40	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, 267-272.	0.2	69
41	Phosphoenolpyruvate Carboxylase Activity and Concentration in the Endosperm of Developing and Germinating Castor Oil Seeds. <i>Plant Physiology</i> , 1992, 99, 445-449.	2.3	69
42	Recent insights into the metabolic adaptations of phosphorus-deprived plants. <i>Journal of Experimental Botany</i> , 2021, 72, 199-223.	2.4	69
43	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, 758-763.	1.5	68
44	Bacterial and plant type phosphoenolpyruvate carboxylase polypeptides interact in the heterooligomeric Class II PEPC complex of developing castor oil seeds. <i>Plant Journal</i> , 2007, 52, 839-849.	2.8	68
45	Purification and characterization of cytosolic pyruvate kinase from <i>Brassica napus</i> (rapeseed) suspension cell cultures. <i>FEBS Journal</i> , 2000, 267, 4477-4485.	0.2	66
46	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, 6097-6106.	2.4	66
47	Purification and characterization of a novel phosphoenolpyruvate carboxylase from banana fruit. <i>Biochemical Journal</i> , 1995, 307, 807-816.	1.7	65
48	Regulatory Monoubiquitination of Phosphoenolpyruvate Carboxylase in Germinating Castor Oil Seeds. <i>Journal of Biological Chemistry</i> , 2008, 283, 29650-29657.	1.6	63
49	Kinetic and regulatory properties of cytosolic pyruvate kinase from germinating castor oil seeds. <i>Biochemical Journal</i> , 1991, 279, 495-501.	1.7	62
50	Normal Growth of Transgenic Tobacco Plants in the Absence of Cytosolic Pyruvate Kinase. <i>Plant Physiology</i> , 1992, 100, 820-825.	2.3	62
51	Pyruvate kinase isozymes from the green alga, <i>Selenastrum minutum</i> . <i>Archives of Biochemistry and Biophysics</i> , 1989, 269, 219-227.	1.4	58
52	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, 569-581.	2.8	58
53	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, 11867-11873.	1.6	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. <i>Planta</i> , 2005, 222, 1051-1062.	1.6	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. <i>Plant Physiology</i> , 2013, 161, 1634-1644.	2.3	54
56	Regulation of cytosolic carbon metabolism in germinating <i>Ricinus communis</i> cotyledons. <i>Planta</i> , 1994, 194, 374-380.	1.6	53
57	Regulation of cytosolic carbon metabolism in germinating <i>Ricinus communis</i> cotyledons. <i>Planta</i> , 1994, 194, 381-387.	1.6	53
58	Purification and characterization of high- and low-molecular-mass isoforms of phosphoenolpyruvate carboxylase from <i>Chlamydomonas reinhardtii</i> . <i>Biochemical Journal</i> , 1998, 331, 201-209.	1.7	53
59	Metabolite Regulation of Partially Purified Soybean Nodule Phosphoenolpyruvate Carboxylase. <i>Plant Physiology</i> , 1990, 94, 1429-1435.	2.3	52
60	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, 24797-24805.	1.6	51
61	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, 226-232.	1.4	50
62	Plant Response to Stress: Biochemical Adaptations to Phosphate Deficiency. , 2004, , 976-980.		50
63	Glycolytic enzyme binding and metabolic control in anaerobiosis. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1986, 156, 635-640.	0.7	48
64	Purification of Pyruvate Kinase from Germinating Castor Bean Endosperm. <i>Plant Physiology</i> , 1988, 86, 1064-1069.	2.3	48
65	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, 12588-12597.	1.6	46
66	In Vivo Regulatory Phosphorylation of Novel Phosphoenolpyruvate Carboxylase Isoforms in Endosperm of Developing Castor Oil Seeds. <i>Plant Physiology</i> , 2005, 139, 969-978.	2.3	46
67	Photosynthesis and Carbon Partitioning in Transgenic Tobacco Plants Deficient in Leaf Cytosolic Pyruvate Kinase1. <i>Plant Physiology</i> , 1999, 120, 887-896.	2.3	45
68	Altered Growth of Transgenic Tobacco Lacking Leaf Cytosolic Pyruvate Kinase1. <i>Plant Physiology</i> , 1998, 116, 45-51.	2.3	43
69	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, 5485-5495.	2.4	42
70	Multifaceted functions of post-translational enzyme modifications in the control of plant glycolysis. <i>Current Opinion in Plant Biology</i> , 2020, 55, 28-37.	3.5	42
71	Purification and Characterization of Pyrophosphate-Dependent Phosphofructokinase from Phosphate-Starved <i>Brassica nigra</i> Suspension Cells. <i>Plant Physiology</i> , 1996, 112, 343-351.	2.3	41
72	Phosphite accelerates programmed cell death in phosphate-starved oilseed rape (<i>Brassica napus</i>) suspension cell cultures. <i>Planta</i> , 2003, 218, 233-239.	1.6	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. <i>Plant Physiology</i> , 2008, 146, 1346-1357.	2.3	41
74	Bacterial and plant-type phosphoenolpyruvate carboxylase isozymes from developing castor oil seeds interact <i>in vivo</i> and associate with the surface of mitochondria. <i>Plant Journal</i> , 2012, 71, 251-262.	2.8	41
75	Tissue specific isozymes of pyruvate kinase in the channelled wheel <i>Buscotypus canaliculatum</i> : enzyme modification in response to environmental anoxia. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1985, 155, 291-296.	0.7	40
76	Structural and Regulatory Properties of Pyruvate Kinase from the Cyanobacterium <i>Synechococcus</i> PCC 6301. <i>Journal of Biological Chemistry</i> , 2001, 276, 20966-20972.	1.6	40
77	Microalgal cultivation with waste streams and metabolic constraints to triacylglycerides accumulation for biofuel production. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 325-343.	1.9	40
78	Regulatory Phosphorylation of Banana Fruit Phosphoenolpyruvate Carboxylase by a Copurifying Phosphoenolpyruvate Carboxylase-Kinase. <i>FEBS Journal</i> , 1997, 247, 642-651.	0.2	39
79	Upregulation of vacuolar H ⁺ -translocating pyrophosphatase by phosphate starvation of <i>Brassica napus</i> (rapeseed) suspension cell cultures. <i>FEBS Letters</i> , 2000, 486, 155-158.	1.3	38
80	Phosphite disrupts the acclimation of <i>Saccharomyces cerevisiae</i> to phosphate starvation. <i>Canadian Journal of Microbiology</i> , 2001, 47, 969-978.	0.8	38
81	Purification of Leucoplast Pyruvate Kinase from Developing Castor Bean Endosperm. <i>Plant Physiology</i> , 1990, 94, 1528-1534.	2.3	37
82	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.	1.4	37
83	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.	2.0	35
84	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.	1.4	34
85	Phosphate or phosphite addition promotes the proteolytic turnover of phosphate-starvation inducible tomato purple acid phosphatase isozymes. <i>FEBS Letters</i> , 2004, 573, 51-54.	1.3	34
86	Peptide mapping by CNBr fragmentation using a sodium dodecyl sulfate-polyacrylamide minigel system. <i>Analytical Biochemistry</i> , 1989, 178, 391-393.	1.1	32
87	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.	1.4	32
88	<i>In vivo</i> monoubiquitination of anaplerotic phosphoenolpyruvate carboxylase occurs at Lys624 in germinating sorghum seeds. <i>Journal of Experimental Botany</i> , 2014, 65, 443-451.	2.4	32
89	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, 3523-3536.	2.4	32
90	Plant cytosolic pyruvate kinase: a kinetic study. <i>BBA - Proteins and Proteomics</i> , 1992, 1160, 213-220.	2.1	31

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91	Purification and characterization of banana fruit acid phosphatase. <i>Planta</i> , 2001, 214, 243-249.	1.6	31
92	Purification and characterization of pyrophosphate- and ATP-dependent phosphofructokinases from banana fruit. <i>Planta</i> , 2003, 217, 113-121.	1.6	30
93	Phosphoenolpyruvate carboxylase protein kinase from developing castor oil seeds: partial purification, characterization, and reversible control by photosynthate supply. <i>Planta</i> , 2007, 226, 1299-1310.	1.6	30
94	Binding of Glycolytic Enzymes to a Particulate Fraction in Carrot and Sugar Beet Storage Roots. <i>Plant Physiology</i> , 1988, 86, 348-351.	2.3	29
95	Purification and characterization of cytosolic aldolase from carrot storage root. <i>Biochemical Journal</i> , 1990, 269, 133-139.	1.7	29
96	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.	1.4	28
97	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, 1283-1288.	2.3	28
98	Pyruvate-kinase isoenzymes from zygotic and microspore-derived embryos of <i>Brassica napus</i> . <i>Planta</i> , 1992, 187, 198-202.	1.6	27
99	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, 326-335.	1.4	27
100	Leucoplast Pyruvate Kinase from Developing Castor Oil Seeds. <i>Plant Physiology</i> , 1991, 97, 1334-1338.	2.3	26
101	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.	2.8	26
102	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.	1.3	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. <i>Plant Molecular Biology</i> , 1990, 15, 665-669.	2.0	25
104	Suborganellar Localization and Molecular Characterization of Nonproteolytic Degraded Leucoplast Pyruvate Kinase from Developing Castor Oil Seeds. <i>Plant Physiology</i> , 1995, 109, 1461-1469.	2.3	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. <i>Analytical Biochemistry</i> , 2002, 300, 94-99.	1.1	25
106	Tissue specific isozymes of alanopine dehydrogenase in the channeled whelk <i>Busycotypus canaliculatum</i> . <i>Canadian Journal of Zoology</i> , 1982, 60, 1568-1572.	0.4	24
107	Activation of Cytosolic Pyruvate Kinase by Polyethylene Glycol. <i>Plant Physiology</i> , 1993, 103, 285-288.	2.3	24
108	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, 33412-33424.	1.6	24

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109	Regulatory Phosphorylation of Bacterial-Type PEP Carboxylase by the Ca ²⁺ -Dependent Protein Kinase RcCDPK1 in Developing Castor Oil Seeds. <i>Plant Physiology</i> , 2017, 174, 1012-1027.	2.3	24
110	Phosphate and phosphite have a differential impact on the proteome and phosphoproteome of Arabidopsis suspension cell cultures. <i>Plant Journal</i> , 2021, 105, 924-941.	2.8	24
111	Gas-liquid chromatography and enzymatic determination of alanopine and strombine in tissues of marine invertebrates. <i>Analytical Biochemistry</i> , 1982, 125, 50-58.	1.1	23
112	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.	0.7	23
113	The role of inorganic phosphate in the regulation of C ₄ photosynthesis. <i>Photosynthesis Research</i> , 1993, 35, 205-211.	1.6	23
114	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.	2.6	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 <i>Arabidopsis</i>. <i>Plant, Cell and Environment</i> , 2019, 42, 1139-1157.	2.8	21
116	Purification of a novel pyruvate kinase from a green alga. <i>FEBS Letters</i> , 1989, 259, 130-132.	1.3	20
117	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.	2.6	20
118	Characterization of asparaginyl endopeptidase activity in endosperm of developing and germinating castor oil seeds. <i>Physiologia Plantarum</i> , 1994, 91, 599-604.	2.6	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 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, 109-118.	1.7	18
123	Purification and characterization of cytosolic pyruvate kinase from banana fruit. <i>Biochemical Journal</i> , 2000, 352, 875-882.	1.7	18
124	In Vitro Phosphorylation of Phosphoenolpyruvate Carboxylase from the Green Alga <i>Selenastrum minutum</i> . <i>Plant and Cell Physiology</i> , 2002, 43, 785-792.	1.5	17
125	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.	1.7	17
126	The calcium-dependent protein kinase RcCDPK2 phosphorylates sucrose synthase at Ser11 in developing castor oil seeds. <i>Biochemical Journal</i> , 2016, 473, 3667-3682.	1.7	17

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127	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.	2.4	17
128	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, 559-562.	1.3	16
129	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, 189-196.	1.4	16
130	Transcriptional and post-translational upregulation of phosphoenolpyruvate carboxylase in <i>Arabidopsis thaliana</i> (L. Heynh) under cadmium stress. <i>Environmental and Experimental Botany</i> , 2019, 164, 29-39.	2.0	16
131	Differential expression of cytosolic and plastid pyruvate kinase isozymes in tobacco. <i>Physiologia Plantarum</i> , 1995, 95, 507-514.	2.6	15
132	Purification and characterization of an allosteric fructose-1,6-bisphosphate aldolase from germinating mung beans (<i>Vigna radiata</i>). <i>Phytochemistry</i> , 2005, 66, 968-974.	1.4	15
133	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, 1049-1054.	1.3	15
134	Avoiding Proteolysis during the Extraction and Purification of Active Plant Enzymes. <i>Plant and Cell Physiology</i> , 2019, 60, 715-724.	1.5	15
135	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.	2.8	15
136	High-yield purification of potato tuber pyrophosphate: Fructose-6-phosphate 1-phosphotransferase. <i>Protein Expression and Purification</i> , 1991, 2, 29-33.	0.6	14
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