

Tom H Nielsen

List of Publications by Year in descending order

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43
papers

2,424
citations

279778

23
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254170

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all docs

44
docs citations

44
times ranked

2620
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-Wide Analysis of the Arabidopsis Leaf Transcriptome Reveals Interaction of Phosphate and Sugar Metabolism. <i>Plant Physiology</i> , 2007, 143, 156-171.	4.8	298
2	Increased expression of the MYB-related transcription factor, <i>PHR1</i> , leads to enhanced phosphate uptake in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2007, 30, 1499-1512.	5.7	261
3	Starch phosphorylation: a new front line in starch research. <i>Trends in Plant Science</i> , 2002, 7, 445-450.	8.8	206
4	Protein phosphorylation as a mechanism for regulation of spinach leaf sucrose-phosphate synthase activity. <i>Archives of Biochemistry and Biophysics</i> , 1989, 270, 681-690.	3.0	168
5	Variation among Species in Light Activation of Sucrose-Phosphate Synthase. <i>Plant and Cell Physiology</i> , 1989, 30, 277-285.	3.1	122
6	Dissecting the plant transcriptome and the regulatory responses to phosphate deprivation. <i>Physiologia Plantarum</i> , 2010, 139, 129-143.	5.2	122
7	Phosphorylation and 14-3-3 binding of Arabidopsis 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. <i>Plant Journal</i> , 2004, 37, 654-667.	5.7	97
8	Carbohydrate metabolism during fruit development in sweet pepper (<i>Capsicum annuum</i>) plants. <i>Physiologia Plantarum</i> , 1991, 82, 311-319.	5.2	94
9	Fructose-2,6-bisphosphate: a traffic signal in plant metabolism. <i>Trends in Plant Science</i> , 2004, 9, 556-563.	8.8	91
10	Investigations of barley stripe mosaic virus as a gene silencing vector in barley roots and in <i>Brachypodium distachyon</i> and oat. <i>Plant Methods</i> , 2010, 6, 26.	4.3	84
11	Global analysis of microRNA in Arabidopsis in response to phosphate starvation as studied by locked nucleic acid-based microarrays. <i>Physiologia Plantarum</i> , 2010, 140, 57-68.	5.2	61
12	Transgenic Arabidopsis Plants with Decreased Activity of Fructose-6-Phosphate,2-Kinase/Fructose-2,6-Bisphosphatase Have Altered Carbon Partitioning. <i>Plant Physiology</i> , 2001, 126, 750-758.	4.8	55
13	Intermediary Glucan Structures Formed during Starch Granule Biosynthesis Are Enriched in Short Side Chains, a Dynamic Pulse Labeling Approach. <i>Journal of Biological Chemistry</i> , 2002, 277, 20249-20255.	3.4	52
14	Osmotic stress changes carbohydrate partitioning and fructose-2,6-bisphosphate metabolism in barley leaves. <i>Functional Plant Biology</i> , 2005, 32, 1033.	2.1	51
15	Interaction between phosphate starvation signalling and hexokinase-independent sugar sensing in Arabidopsis leaves. <i>Physiologia Plantarum</i> , 2005, 124, 81-90.	5.2	48
16	The <i>Arabidopsis</i> transcription factor <i>PHR1</i> is essential for adaptation to high light and retaining functional photosynthesis during phosphate starvation. <i>Physiologia Plantarum</i> , 2012, 144, 35-47.	5.2	46
17	Gene expression during recovery from phosphate starvation in roots and shoots of <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 2004, 122, 233-243.	5.2	44
18	In Vitro Biosynthesis of Phosphorylated Starch in Intact Potato Amyloplasts ¹ . <i>Plant Physiology</i> , 1999, 119, 455-462.	4.8	42

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19	Effects of an onion by-product on bioactivity and safety markers in healthy rats. <i>British Journal of Nutrition</i> , 2009, 102, 1574.	2.3	40
20	Cytokinins and leaf development in sweet pepper (<i>Capsicum annuum</i> L.). <i>Planta</i> , 1992, 188, 70-77.	3.2	38
21	The interplay between P uptake pathways in mycorrhizal peas: a combined physiological and gene-silencing approach. <i>Physiologia Plantarum</i> , 2013, 149, 234-248.	5.2	30
22	Phosphorylated α (1 \rightarrow 4)Glucans as Substrate for Potato Starch-Branching Enzyme I1. <i>Plant Physiology</i> , 1998, 117, 869-875.	4.8	27
23	Cloning, characterization and expression of a bifunctional fructose-6-phosphate, 2-kinase/fructose-2,6-bisphosphatase from potato. <i>Plant Molecular Biology</i> , 1999, 39, 709-720.	3.9	25
24	N-terminal truncation affects the kinetics and structure of fructose-6-phosphate 2-kinase/fructose-2,6-bisphosphatase from <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2001, 359, 591-597.	3.7	25
25	Levanase from <i>Bacillus subtilis</i> hydrolyses α -2,6 fructosyl bonds in bacterial levans and in grass fructans. <i>International Journal of Biological Macromolecules</i> , 2016, 85, 514-521.	7.5	25
26	Regulation of Carbon Partitioning in Source and Sink Leaf Parts in Sweet Pepper (<i>Capsicum annuum</i> L.) Plants. <i>Plant Physiology</i> , 1990, 93, 637-641.	4.8	24
27	Structure and heterologous expression of a gene encoding fructose-6-phosphate,2-kinase/fructose-2,6-bisphosphatase from <i>Arabidopsis thaliana</i> . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2000, 1492, 406-413.	2.4	23
28	Distribution of dry matter in sweet pepper plants (<i>Capsicum annuum</i> L.) during the juvenile and generative growth phases. <i>Scientia Horticulturae</i> , 1988, 35, 179-187.	3.6	21
29	Pyrophosphate:fructose-6-phosphate 1-phosphotransferase from barley seedlings. Isolation, subunit composition and kinetic Characterization. <i>Physiologia Plantarum</i> , 1994, 92, 311-321.	5.2	21
30	N-terminal truncation affects the kinetics and structure of fructose-6-phosphate 2-kinase/fructose-2,6-bisphosphatase from <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2001, 359, 591.	3.7	21
31	The Circadian Clock Gene Circuit Controls Protein and Phosphoprotein Rhythms in <i>Arabidopsis thaliana</i> . <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100172.	3.8	20
32	Carbohydrate metabolism during fruit development in sweet pepper (<i>Capsicum annuum</i>) plants. <i>Physiologia Plantarum</i> , 1991, 82, 311-319.	5.2	19
33	Cytokinins and leaf development in sweet pepper (<i>Capsicum annuum</i> L.). <i>Planta</i> , 1992, 188, 78-84.	3.2	16
34	Differences in fructose-2,6-bisphosphate metabolism between sections of developing barley leaves. <i>Physiologia Plantarum</i> , 1992, 84, 577-583.	5.2	16
35	Carbon partitioning in leaves and tubers of transgenic potato plants with reduced activity of fructose-6-phosphate,2-kinase/fructose-2,6-bisphosphatase. <i>Physiologia Plantarum</i> , 2004, 121, 204-214.	5.2	16
36	Cytokinins and leaf development in sweet pepper (<i>Capsicum annuum</i> L.). <i>Planta</i> , 1992, 188, 70-7.	3.2	15

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37	Cytokinins and leaf development in sweet pepper (<i>Capsicum annuum</i> L.). <i>Planta</i> , 1992, 188, 78-84.	3.2	14
38	Starch biosynthesis from triose-phosphate in transgenic potato tubers expressing plastidic fructose-1,6-bisphosphatase. <i>Planta</i> , 2002, 214, 616-624.	3.2	11
39	Overexpression of the MYB-related transcription factor GCC7 in <i>Arabidopsis thaliana</i> leads to increased levels of Pi and changed P-dependent gene regulation. <i>Functional Plant Biology</i> , 2011, 38, 151.	2.1	8
40	Rapid and efficient method for the isolation and characterization of plant aromatic choline esterases. <i>Journal of Chromatography A</i> , 1988, 450, 121-131.	3.7	7
41	Differences in fructose-2,6-bisphosphate metabolism between sections of developing barley leaves. <i>Physiologia Plantarum</i> , 1992, 84, 577-583.	5.2	5
42	A convenient method for enzymatic synthesis of radiolabelled glucose-1,6-bisphosphate. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1995, 36, 679-684.	1.0	4
43	Cytosolic phosphofructokinases are important for sugar homeostasis in leaves of <i>Arabidopsis thaliana</i> . <i>Annals of Botany</i> , 2022, 129, 37-52.	2.9	3