Tom H Nielsen

List of Publications by Year
in descending order

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43 papers	2,424 citations	279798 23 h-index	254184 43 g-index
44 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. Plant Physiology, 2007, 143, 156-171.	4.8	298
2	Increased expression of the MYBâ€related transcription factor, PHR1, leads to enhanced phosphate uptake in Arabidopsis thaliana. Plant, Cell and Environment, 2007, 30, 1499-1512.	5.7	261
3	Starch phosphorylation: a new front line in starch research. Trends in Plant Science, 2002, 7, 445-450.	8.8	206
4	Protein phosphorylation as a mechanism for regulation of spinach leaf sucrose-phosphate synthase activity. Archives of Biochemistry and Biophysics, 1989, 270, 681-690.	3.0	168
5	Variation among Species in Light Activation of Sucrose-Phosphate Synthase. Plant and Cell Physiology, 1989, 30, 277-285.	3.1	122
6	Dissecting the plant transcriptome and the regulatory responses to phosphate deprivation. Physiologia Plantarum, 2010, 139, 129-143.	5.2	122
7	Phosphorylation and 14-3-3 binding of Arabidopsis 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. Plant Journal, 2004, 37, 654-667.	5.7	97
8	Carbohydrate metabolism during fruit development in sweet pepper (Capsicum annuum) plants. Physiologia Plantarum, 1991, 82, 311-319.	5.2	94
9	Fructose-2,6-bisphosphate: a traffic signal in plant metabolism. Trends in Plant Science, 2004, 9, 556-563.	8.8	91
10	Investigations of barley stripe mosaic virus as a gene silencing vector in barley roots and in Brachypodium distachyon and oat. Plant Methods, 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. Physiologia Plantarum, 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. Plant Physiology, 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. Journal of Biological Chemistry, 2002, 277, 20249-20255.	3.4	52
14	Osmotic stress changes carbohydrate partitioning and fructose-2,6-bisphosphate metabolism in barley leaves. Functional Plant Biology, 2005, 32, 1033.	2.1	51
15	Interaction between phosphate starvation signalling and hexokinase-independent sugar sensing in Arabidopsis leaves. Physiologia Plantarum, 2005, 124, 81-90.	5.2	48
16	The Arabidopsis transcription factor PHR1 is essential for adaptation to high light and retaining functional photosynthesis during phosphate starvation. Physiologia Plantarum, 2012, 144, 35-47.	5.2	46
17	Gene expression during recovery from phosphate starvation in roots and shoots of Arabidopsis thaliana. Physiologia Plantarum, 2004, 122, 233-243.	5.2	44
18	In Vitro Biosynthesis of Phosphorylated Starch in Intact Potato Amyloplasts1. Plant Physiology, 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. British Journal of Nutrition, 2009, 102, 1574.	2.3	40
20	Cytokinins and leaf development in sweet pepper (Capsicum annuum L.). Planta, 1992, 188, 70-77.	3.2	38
21	The interplay between P uptake pathways in mycorrhizal peas: a combined physiological and geneâ€silencing approach. Physiologia Plantarum, 2013, 149, 234-248.	5.2	30
22	Phosphorylated Î±(1â†'4)Glucans as Substrate for Potato Starch-Branching Enzyme I1. Plant Physiology, 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. Plant Molecular Biology, 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 Arabidopsis thaliana. Biochemical Journal, 2001, 359, 591-597.	3.7	25
25	Levanase from Bacillus subtilis hydrolyses Î²-2,6 fructosyl bonds in bacterial levans and in grass fructans. International Journal of Biological Macromolecules, 2016, 85, 514-521.	7.5	25
26	Regulation of Carbon Partitioning in Source and Sink Leaf Parts in Sweet Pepper (Capsicum annuum L.) Plants. Plant Physiology, 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 Arabidopsis thaliana. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2000, 1492, 406-413.	2.4	23
28	Distribution of dry matter in sweet pepper plants (Capsicum annuum L.) during the juvenile and generative growth phases. Scientia Horticulturae, 1988, 35, 179-187.	3.6	21
29	Pyrophosphate:fructose-6-phosphate 1-phosphotransferase from barley seedlings. Isolation, subunit composition and kinetic Characterization. Physiologia Plantarum, 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 Arabidopsis thaliana. Biochemical Journal, 2001, 359, 591.	3.7	21
31	The Circadian Clock Gene Circuit Controls Protein and Phosphoprotein Rhythms in Arabidopsis thaliana. Molecular and Cellular Proteomics, 2022, 21, 100172.	3.8	20
32	Carbohydrate metabolism during fruit development in sweet pepper (Capsicum annuum) plants. Physiologia Plantarum, 1991, 82, 311-319.	5.2	19
33	Cytokinins and leaf development in sweet pepper (Capsicum annuum L.). Planta, 1992, 188, 78-84.	3.2	16
34	Differences in fructose-2,6-bisphosphate metabolism between sections of developing barley leaves. Physiologia Plantarum, 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. Physiologia Plantarum, 2004, 121, 204-214.	5.2	16
36	Cytokinins and leaf development in sweet pepper (Capsicum annuum L.). Planta, 1992, 188, 70-7.	3.2	15

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