

Oliver Ktting

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

19
papers

1,420
citations

17
h-index

19
g-index

19
ext. papers

1,616
ext. citations

7.8
avg, IF

3.9
L-index

#	Paper	IF	Citations
19	Identification of a novel enzyme required for starch metabolism in Arabidopsis leaves. The phosphoglucan, water dikinase. <i>Plant Physiology</i> , 2005 , 137, 242-52	6.6	209
18	STARCH-EXCESS4 is a laforin-like Phosphoglucan phosphatase required for starch degradation in Arabidopsis thaliana. <i>Plant Cell</i> , 2009 , 21, 334-46	11.6	180
17	Regulation of starch metabolism: the age of enlightenment?. <i>Current Opinion in Plant Biology</i> , 2010 , 13, 321-9	9.9	149
16	Phosphorylation of C6- and C3-positions of glucosyl residues in starch is catalysed by distinct dikinases. <i>FEBS Letters</i> , 2006 , 580, 4872-6	3.8	137
15	The phosphoglucan phosphatase like sex Four2 dephosphorylates starch at the C3-position in Arabidopsis. <i>Plant Cell</i> , 2011 , 23, 4096-111	11.6	95
14	A putative phosphatase, LSF1, is required for normal starch turnover in Arabidopsis leaves. <i>Plant Physiology</i> , 2010 , 152, 685-97	6.6	84
13	Mutagenesis of cysteine 81 prevents dimerization of the APS1 subunit of ADP-glucose pyrophosphorylase and alters diurnal starch turnover in Arabidopsis thaliana leaves. <i>Plant Journal</i> , 2012 , 70, 231-42	6.9	72
12	The Laforin-like dual-specificity phosphatase SEX4 from Arabidopsis hydrolyzes both C6- and C3-phosphate esters introduced by starch-related dikinases and thereby affects phase transition of alpha-glucans. <i>Plant Physiology</i> , 2010 , 152, 711-22	6.6	65
11	Starch breakdown: recent discoveries suggest distinct pathways and novel mechanisms. <i>Functional Plant Biology</i> , 2007 , 34, 465-473	2.7	63
10	Plastidial NAD-dependent malate dehydrogenase is critical for embryo development and heterotrophic metabolism in Arabidopsis. <i>Plant Physiology</i> , 2014 , 164, 1175-90	6.6	59
9	Comprehensive survey of redox sensitive starch metabolising enzymes in Arabidopsis thaliana. <i>Plant Physiology and Biochemistry</i> , 2012 , 58, 89-97	5.4	56
8	Phosphoglucan phosphatase function sheds light on starch degradation. <i>Trends in Plant Science</i> , 2014 , 19, 471-8	13.1	53
7	Phosphoglucan-bound structure of starch phosphatase Starch Excess4 reveals the mechanism for C6 specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7272-7	11.5	50
6	Analysis of starch metabolism in chloroplasts. <i>Methods in Molecular Biology</i> , 2011 , 775, 387-410	1.4	41
5	Structure of the Arabidopsis glucan phosphatase like sex four2 reveals a unique mechanism for starch dephosphorylation. <i>Plant Cell</i> , 2013 , 25, 2302-14	11.6	31
4	Plastidial NAD-Dependent Malate Dehydrogenase: A Moonlighting Protein Involved in Early Chloroplast Development through Its Interaction with an FtsH12-FtsHi Protease Complex. <i>Plant Cell</i> , 2018 , 30, 1745-1769	11.6	31
3	Mechanistic Insights into Glucan Phosphatase Activity against Polyglucan Substrates. <i>Journal of Biological Chemistry</i> , 2015 , 290, 23361-70	5.4	22

- 2 LIKE SEX4 1 Acts as a α -Amylase-Binding Scaffold on Starch Granules during Starch Degradation.
Plant Cell, **2019**, 31, 2169-2186 11.6 17
- 1 Starch Biosynthesis and Degradation in Plants 1-10 6