

Joerg Fettke

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.

52
papers

1,370
citations

22
h-index

36
g-index

56
ext. papers

1,636
ext. citations

5.4
avg, IF

4.54
L-index

#	Paper	IF	Citations
52	Feedback inhibition of starch degradation in Arabidopsis leaves mediated by trehalose 6-phosphate. <i>Plant Physiology</i> , 2013 , 163, 1142-63	6.6	124
51	Glucan, water dikinase phosphorylates crystalline maltodextrins and thereby initiates solubilization. <i>Plant Journal</i> , 2008 , 55, 323-34	6.9	83
50	Eukaryotic starch degradation: integration of plastidial and cytosolic pathways. <i>Journal of Experimental Botany</i> , 2009 , 60, 2907-22	7	81
49	Identification, subcellular localization and biochemical characterization of water-soluble heteroglycans (SHG) in leaves of Arabidopsis thaliana L.: distinct SHG reside in the cytosol and in the apoplast. <i>Plant Journal</i> , 2005 , 43, 568-85	6.9	73
48	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
47	A transglucosidase necessary for starch degradation and maltose metabolism in leaves at night acts on cytosolic heteroglycans (SHG). <i>Plant Journal</i> , 2006 , 46, 668-84	6.9	60
46	Glucose-1-phosphate transport into protoplasts and chloroplasts from leaves of Arabidopsis. <i>Plant Physiology</i> , 2011 , 155, 1723-34	6.6	56
45	Glucose 1-phosphate is efficiently taken up by potato (<i>Solanum tuberosum</i>) tuber parenchyma cells and converted to reserve starch granules. <i>New Phytologist</i> , 2010 , 185, 663-75	9.8	55
44	The two plastidial starch-related dikinases sequentially phosphorylate glucosyl residues at the surface of both the A- and B-type allomorphs of crystallized maltodextrins but the mode of action differs. <i>Plant Physiology</i> , 2009 , 150, 962-76	6.6	51
43	Double knockout mutants of Arabidopsis grown under normal conditions reveal that the plastidial phosphorylase isozyme participates in transitory starch metabolism. <i>Plant Physiology</i> , 2014 , 164, 907-21	6.6	50
42	Phosphorylation of transitory starch by Eglucan, water dikinase during starch turnover affects the surface properties and morphology of starch granules. <i>New Phytologist</i> , 2014 , 203, 495-507	9.8	45
41	The glycan substrate of the cytosolic (Pho 2) phosphorylase isozyme from <i>Pisum sativum</i> L.: identification, linkage analysis and subcellular localization. <i>Plant Journal</i> , 2004 , 39, 933-46	6.9	45
40	Analysis of cytosolic heteroglycans from leaves of transgenic potato (<i>Solanum tuberosum</i> L.) plants that under- or overexpress the Pho 2 phosphorylase isozyme. <i>Plant and Cell Physiology</i> , 2005 , 46, 1987-2004	4.04	41
39	Starch phosphorylation: insights and perspectives. <i>Cellular and Molecular Life Sciences</i> , 2016 , 73, 2753-64	10.3	37
38	Reduction of the cytosolic phosphoglucomutase in Arabidopsis reveals impact on plant growth, seed and root development, and carbohydrate partitioning. <i>PLoS ONE</i> , 2014 , 9, e112468	3.7	33
37	Analysis of the functional interaction of Arabidopsis starch synthase and branching enzyme isoforms reveals that the cooperative action of SSI and BEs results in glucans with polymodal chain length distribution similar to amylopectin. <i>PLoS ONE</i> , 2014 , 9, e102364	3.7	30
36	Two carbon fluxes to reserve starch in potato (<i>Solanum tuberosum</i> L.) tuber cells are closely interconnected but differently modulated by temperature. <i>Journal of Experimental Botany</i> , 2012 , 63, 3011-29	7	29

35	Loss of cytosolic phosphoglucose isomerase affects carbohydrate metabolism in leaves and is essential for fertility of Arabidopsis. <i>Plant Physiology</i> , 2014 , 166, 753-65	6.6	28
34	Starch Synthase 4 and Plastidal Phosphorylase Differentially Affect Starch Granule Number and Morphology. <i>Plant Physiology</i> , 2017 , 174, 73-85	6.6	26
33	Starch Synthesizing Reactions and Paths: in vitro and in vivo Studies. <i>Journal of Applied Glycoscience (1999)</i> , 2013 , 60, 3-20	1	26
32	Alterations in cytosolic glucose-phosphate metabolism affect structural features and biochemical properties of starch-related heteroglycans. <i>Plant Physiology</i> , 2008 , 148, 1614-29	6.6	25
31	Intracellular and cell-to-apoplast compartmentation of carbohydrate metabolism. <i>Trends in Plant Science</i> , 2015 , 20, 490-7	13.1	23
30	Expression of human c-reactive protein in different systems and its purification from Leishmania tarentolae. <i>Protein Expression and Purification</i> , 2011 , 78, 55-60	2	20
29	Cytosolic heteroglycans in photoautotrophic and in heterotrophic plant cells. <i>Phytochemistry</i> , 2009 , 70, 696-702	4	20
28	Parameters of Starch Granule Genesis in Chloroplasts of. <i>Frontiers in Plant Science</i> , 2018 , 9, 761	6.2	19
27	Heterologous expression of AtPAP2 in transgenic potato influences carbon metabolism and tuber development. <i>FEBS Letters</i> , 2014 , 588, 3726-31	3.8	19
26	The glucan phosphorylation mediated by Eglucan, water dikinase (GWD) is also essential in the light phase for a functional transitory starch turn-over. <i>Plant Signaling and Behavior</i> , 2014 , 9, e28892	2.5	19
25	Proteomic analysis of S-nitrosylated and S-glutathionylated proteins in wheat seedlings with different dehydration tolerances. <i>Plant Physiology and Biochemistry</i> , 2016 , 108, 507-518	5.4	18
24	Reduction of the plastidal phosphorylase in potato (<i>Solanum tuberosum</i> L.) reveals impact on storage starch structure during growth at low temperature. <i>Plant Physiology and Biochemistry</i> , 2016 , 100, 141-149	5.4	17
23	Modification of the endogenous NO level influences apple embryos dormancy by alterations of nitrated and biotinylated protein patterns. <i>Planta</i> , 2016 , 244, 877-91	4.7	15
22	Identification of a novel heteroglycan-interacting protein, HIP 1.3, from Arabidopsis thaliana. <i>Journal of Plant Physiology</i> , 2011 , 168, 1415-25	3.6	15
21	Starch-related cytosolic heteroglycans in roots from Arabidopsis thaliana. <i>Journal of Plant Physiology</i> , 2011 , 168, 1406-14	3.6	12
20	Reduced starch granule number per chloroplast in the dpe2/phs1 mutant is dependent on initiation of starch degradation. <i>PLoS ONE</i> , 2017 , 12, e0187985	3.7	11
19	The plastidal glucan, water dikinase (GWD) catalyses multiple phosphotransfer reactions. <i>FEBS Journal</i> , 2012 , 279, 1953-66	5.7	11
18	Starch and Glycogen Analyses: Methods and Techniques. <i>Biomolecules</i> , 2020 , 10,	5.9	11

17	Secretory leukocyte protease inhibitor (SLPI) might contaminate murine monoclonal antibodies after purification on protein G. <i>Journal of Biotechnology</i> , 2012 , 158, 34-5	3.7	9
16	Carbon transitions from either Calvin cycle or transitory starch to heteroglycans as revealed by (14) C-labeling experiments using protoplasts from Arabidopsis. <i>Physiologia Plantarum</i> , 2013 , 149, 25-44	4.6	8
15	Do carbohydrate metabolism and partitioning contribute to the higher salt tolerance of <i>Hordeum marinum</i> compared to <i>Hordeum vulgare</i> ?. <i>Acta Physiologiae Plantarum</i> , 2019 , 41, 1	2.6	8
14	EARLY STARVATION1 specifically affects the phosphorylation action of starch-related dikinases. <i>Plant Journal</i> , 2018 , 95, 126-137	6.9	7
13	Starch granule initiation in <i>Arabidopsis thaliana</i> chloroplasts. <i>Plant Journal</i> , 2021 , 107, 688-697	6.9	7
12	Starch-A complex and undeciphered biopolymer. <i>Journal of Plant Physiology</i> , 2021 , 258-259, 153389	3.6	6
11	Canavanine-Induced Decrease in Nitric Oxide Synthesis Alters Activity of Antioxidant System but Does Not Impact S-Nitrosoglutathione Catabolism in Tomato Roots. <i>Frontiers in Plant Science</i> , 2019 , 10, 1077	6.2	6
10	A review of starch, a unique biopolymer - Structure, metabolism and in planta modifications.. <i>Plant Science</i> , 2022 , 318, 111223	5.3	6
9	Protein carbonylation linked to wheat seedling tolerance to water deficiency. <i>Environmental and Experimental Botany</i> , 2017 , 137, 84-95	5.9	5
8	Effect of Short-Term Cold Treatment on Carbohydrate Metabolism in Potato Leaves. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
7	Changes of proteins during dormancy and bud development of sweet cherry (<i>Prunus avium</i> L.). <i>Scientia Horticulturae</i> , 2018 , 239, 41-49	4.1	3
6	Starch-related carbon fluxes in roots and leaves of <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2011 , 6, 1060-2	2.5	2
5	Glucan, water dikinase phosphorylates crystalline maltodextrins and thereby initiates solubilization. <i>Plant Journal</i> , 2008 , 080414150319983	6.9	2
4	Identification of Two <i>Arabidopsis thaliana</i> Plasma Membrane Transporters Able to Transport Glucose 1-Phosphate. <i>Plant and Cell Physiology</i> , 2020 , 61, 381-392	4.9	2
3	Starch Granules in Mesophyll and Guard Cells Show Similar Morphology but Differences in Size and Number. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
2	Carbon pathways during transitory starch degradation in <i>Arabidopsis</i> differentially affect the starch granule number and morphology in the <i>dpe2/phs1</i> mutant background.. <i>Plant Physiology and Biochemistry</i> , 2022 , 180, 35-41	5.4	0
1	Indication that starch and sucrose are biomarkers for oil yield in oil palm (<i>Elaeis guineensis</i> Jacq.). <i>Food Chemistry</i> , 2022 , 393, 133361	8.5	0