

# Joerg Fettke

## List of Publications by Year in Descending Order

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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	A review of starch, a unique biopolymer - Structure, metabolism and in planta modifications.. <i>Plant Science</i> , <b>2022</b> , 318, 111223	5.3	6
51	Carbon pathways during transitory starch degradation in Arabidopsis differentially affect the starch granule number and morphology in the dpe2/phs1 mutant background.. <i>Plant Physiology and Biochemistry</i> , <b>2022</b> , 180, 35-41	5.4	0
50	Indication that starch and sucrose are biomarkers for oil yield in oil palm ( <i>Elaeis guineensis</i> Jacq.). <i>Food Chemistry</i> , <b>2022</b> , 393, 133361	8.5	0
49	Starch-A complex and undeciphered biopolymer. <i>Journal of Plant Physiology</i> , <b>2021</b> , 258-259, 153389	3.6	6
48	Starch Granules in Mesophyll and Guard Cells Show Similar Morphology but Differences in Size and Number. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
47	Starch granule initiation in Arabidopsis thaliana chloroplasts. <i>Plant Journal</i> , <b>2021</b> , 107, 688-697	6.9	7
46	Effect of Short-Term Cold Treatment on Carbohydrate Metabolism in Potato Leaves. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	5
45	Identification of Two Arabidopsis thaliana Plasma Membrane Transporters Able to Transport Glucose 1-Phosphate. <i>Plant and Cell Physiology</i> , <b>2020</b> , 61, 381-392	4.9	2
44	Starch and Glycogen Analyses: Methods and Techniques. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	11
43	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> , <b>2019</b> , 41, 1	2.6	8
42	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> , <b>2019</b> , 10, 1077	6.2	6
41	EARLY STARVATION1 specifically affects the phosphorylation action of starch-related dikinases. <i>Plant Journal</i> , <b>2018</b> , 95, 126-137	6.9	7
40	Parameters of Starch Granule Genesis in Chloroplasts of. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 761	6.2	19
39	Changes of proteins during dormancy and bud development of sweet cherry ( <i>Prunus avium</i> L.). <i>Scientia Horticulturae</i> , <b>2018</b> , 239, 41-49	4.1	3
38	Starch Synthase 4 and Plastidal Phosphorylase Differentially Affect Starch Granule Number and Morphology. <i>Plant Physiology</i> , <b>2017</b> , 174, 73-85	6.6	26
37	Protein carbonylation linked to wheat seedling tolerance to water deficiency. <i>Environmental and Experimental Botany</i> , <b>2017</b> , 137, 84-95	5.9	5
36	Reduced starch granule number per chloroplast in the dpe2/phs1 mutant is dependent on initiation of starch degradation. <i>PLoS ONE</i> , <b>2017</b> , 12, e0187985	3.7	11

35	Proteomic analysis of S-nitrosylated and S-glutathionylated proteins in wheat seedlings with different dehydration tolerances. <i>Plant Physiology and Biochemistry</i> , <b>2016</b> , 108, 507-518	5.4	18
34	Modification of the endogenous NO level influences apple embryos dormancy by alterations of nitrated and biotinylated protein patterns. <i>Planta</i> , <b>2016</b> , 244, 877-91	4.7	15
33	Reduction of the plastidial 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> , <b>2016</b> , 100, 141-149	5.4	17
32	Starch phosphorylation: insights and perspectives. <i>Cellular and Molecular Life Sciences</i> , <b>2016</b> , 73, 2753-64	10.3	37
31	Intracellular and cell-to-apoplast compartmentation of carbohydrate metabolism. <i>Trends in Plant Science</i> , <b>2015</b> , 20, 490-7	13.1	23
30	Loss of cytosolic phosphoglucose isomerase affects carbohydrate metabolism in leaves and is essential for fertility of <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2014</b> , 166, 753-65	6.6	28
29	Heterologous expression of AtPAP2 in transgenic potato influences carbon metabolism and tuber development. <i>FEBS Letters</i> , <b>2014</b> , 588, 3726-31	3.8	19
28	Analysis of the functional interaction of <i>Arabidopsis</i> 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> , <b>2014</b> , 9, e102364	3.7	30
27	Reduction of the cytosolic phosphoglucomutase in <i>Arabidopsis</i> reveals impact on plant growth, seed and root development, and carbohydrate partitioning. <i>PLoS ONE</i> , <b>2014</b> , 9, e112468	3.7	33
26	The glucan phosphorylation mediated by $\beta$ glucan, water dikinase (GWD) is also essential in the light phase for a functional transitory starch turn-over. <i>Plant Signaling and Behavior</i> , <b>2014</b> , 9, e28892	2.5	19
25	Phosphorylation of transitory starch by $\beta$ glucan, water dikinase during starch turnover affects the surface properties and morphology of starch granules. <i>New Phytologist</i> , <b>2014</b> , 203, 495-507	9.8	45
24	Double knockout mutants of <i>Arabidopsis</i> grown under normal conditions reveal that the plastidial phosphorylase isozyme participates in transitory starch metabolism. <i>Plant Physiology</i> , <b>2014</b> , 164, 907-21	6.6	50
23	Carbon transitions from either Calvin cycle or transitory starch to heteroglycans as revealed by (14) C-labeling experiments using protoplasts from <i>Arabidopsis</i> . <i>Physiologia Plantarum</i> , <b>2013</b> , 149, 25-44	4.6	8
22	Feedback inhibition of starch degradation in <i>Arabidopsis</i> leaves mediated by trehalose 6-phosphate. <i>Plant Physiology</i> , <b>2013</b> , 163, 1142-63	6.6	124
21	Starch Synthesizing Reactions and Paths: in vitro and in vivo Studies. <i>Journal of Applied Glycoscience</i> (1999), <b>2013</b> , 60, 3-20	1	26
20	The plastidial glucan, water dikinase (GWD) catalyses multiple phosphotransfer reactions. <i>FEBS Journal</i> , <b>2012</b> , 279, 1953-66	5.7	11
19	Secretory leukocyte protease inhibitor (SLPI) might contaminate murine monoclonal antibodies after purification on protein G. <i>Journal of Biotechnology</i> , <b>2012</b> , 158, 34-5	3.7	9
18	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> , <b>2012</b> , 63, 3011-29	7	29

17	Identification of a novel heteroglycan-interacting protein, HIP 1.3, from <i>Arabidopsis thaliana</i> . <i>Journal of Plant Physiology</i> , <b>2011</b> , 168, 1415-25	3.6	15
16	Starch-related cytosolic heteroglycans in roots from <i>Arabidopsis thaliana</i> . <i>Journal of Plant Physiology</i> , <b>2011</b> , 168, 1406-14	3.6	12
15	Expression of human c-reactive protein in different systems and its purification from <i>Leishmania tarentolae</i> . <i>Protein Expression and Purification</i> , <b>2011</b> , 78, 55-60	2	20
14	Glucose-1-phosphate transport into protoplasts and chloroplasts from leaves of <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2011</b> , 155, 1723-34	6.6	56
13	Starch-related carbon fluxes in roots and leaves of <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , <b>2011</b> , 6, 1060-2	2.5	2
12	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> , <b>2010</b> , 185, 663-75	9.8	55
11	The Laforin-like dual-specificity phosphatase SEX4 from <i>Arabidopsis</i> hydrolyzes both C6- and C3-phosphate esters introduced by starch-related dikinases and thereby affects phase transition of alpha-glucans. <i>Plant Physiology</i> , <b>2010</b> , 152, 711-22	6.6	65
10	Eukaryotic starch degradation: integration of plastidial and cytosolic pathways. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 2907-22	7	81
9	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> , <b>2009</b> , 150, 962-76	6.6	51
8	Cytosolic heteroglycans in photoautotrophic and in heterotrophic plant cells. <i>Phytochemistry</i> , <b>2009</b> , 70, 696-702	4	20
7	Glucan, water dikinase phosphorylates crystalline maltodextrins and thereby initiates solubilization. <i>Plant Journal</i> , <b>2008</b> , 55, 323-34	6.9	83
6	Alterations in cytosolic glucose-phosphate metabolism affect structural features and biochemical properties of starch-related heteroglycans. <i>Plant Physiology</i> , <b>2008</b> , 148, 1614-29	6.6	25
5	Glucan, water dikinase phosphorylates crystalline maltodextrins and thereby initiates solubilization. <i>Plant Journal</i> , <b>2008</b> , 080414150319983	6.9	2
4	A transglucosidase necessary for starch degradation and maltose metabolism in leaves at night acts on cytosolic heteroglycans (SHG). <i>Plant Journal</i> , <b>2006</b> , 46, 668-84	6.9	60
3	Identification, subcellular localization and biochemical characterization of water-soluble heteroglycans (SHG) in leaves of <i>Arabidopsis thaliana</i> L.: distinct SHG reside in the cytosol and in the apoplast. <i>Plant Journal</i> , <b>2005</b> , 43, 568-85	6.9	73
2	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> , <b>2005</b> , 46, 1987-2004	4.0	41
1	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> , <b>2004</b> , 39, 933-46	6.9	45