

Fabrice Wattebled

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,686
citations

394286

19
h-index

610775

24
g-index

26
all docs

26
docs citations

26
times ranked

1345
citing authors

#	ARTICLE	IF	CITATIONS
1	The phenotype of soluble starch synthase IV defective mutants of <i>Arabidopsis thaliana</i> suggests a novel function of elongation enzymes in the control of starch granule formation. <i>Plant Journal</i> , 2007, 49, 492-504.	2.8	255
2	Mutants of <i>Arabidopsis</i> Lacking a Chloroplastic Isoamylase Accumulate Phytoglycogen and an Abnormal Form of Amylopectin. <i>Plant Physiology</i> , 2005, 138, 184-195.	2.3	169
3	Soluble starch synthase I: a major determinant for the synthesis of amylopectin in <i>Arabidopsis thaliana</i> leaves. <i>Plant Journal</i> , 2005, 43, 398-412.	2.8	163
4	Circadian Clock Regulation of Starch Metabolism Establishes GBSSI as a Major Contributor to Amylopectin Synthesis in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2006, 142, 305-317.	2.3	133
5	Plastidial phosphorylase is required for normal starch synthesis in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2006, 48, 274-285.	2.8	105
6	Mutants of <i>Arabidopsis</i> Lacking Starch Branching Enzyme II Substitute Plastidial Starch Synthesis by Cytoplasmic Maltose Accumulation. <i>Plant Cell</i> , 2006, 18, 2694-2709.	3.1	100
7	Biochemical Characterization of the <i>Chlamydomonas reinhardtii</i> α -1,4 Glucanotransferase Supports a Direct Function in Amylopectin Biosynthesis. <i>Plant Physiology</i> , 1999, 120, 1005-1014.	2.3	80
8	Starch Division and Partitioning. A Mechanism for Granule Propagation and Maintenance in the Picophytoplanktonic Green Alga <i>Ostreococcus tauri</i> . <i>Plant Physiology</i> , 2004, 136, 3333-3340.	2.3	80
9	Further Evidence for the Mandatory Nature of Polysaccharide Debranching for the Aggregation of Semicrystalline Starch and for Overlapping Functions of Debranching Enzymes in <i>Arabidopsis</i> Leaves. <i>Plant Physiology</i> , 2008, 148, 1309-1323.	2.3	80
10	Integrated functions among multiple starch synthases determine both amylopectin chain length and branch linkage location in <i>Arabidopsis</i> leaf starch. <i>Journal of Experimental Botany</i> , 2011, 62, 4547-4559.	2.4	76
11	Biochemical Characterization of Wild-Type and Mutant Isoamylases of <i>Chlamydomonas reinhardtii</i> Supports a Function of the Multimeric Enzyme Organization in Amylopectin Maturation. <i>Plant Physiology</i> , 2001, 125, 1723-1731.	2.3	54
12	Identification of a novel α -L-arabinofuranosidase gene associated with mealiness in apple. <i>Journal of Experimental Botany</i> , 2011, 62, 4309-4321.	2.4	52
13	Granule-bound starch synthase. <i>FEBS Journal</i> , 2002, 269, 3810-3820.	0.2	50
14	STA11, a <i>Chlamydomonas reinhardtii</i> Locus Required for Normal Starch Granule Biogenesis, Encodes Disproportionating Enzyme. Further Evidence for a Function of α -1,4 Glucanotransferases during Starch Granule Biosynthesis in Green Algae. <i>Plant Physiology</i> , 2003, 132, 137-145.	2.3	47
15	Facilitating gene editing in potato: a Single-Nucleotide Polymorphism (SNP) map of the <i>Solanum tuberosum</i> L. cv. Desiree genome. <i>Scientific Reports</i> , 2020, 10, 2045.	1.6	46
16	Functions of maize genes encoding pyruvate phosphate dikinase in developing endosperm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E24-E33.	3.3	35
17	Distinct Functional Properties of Isoamylase-Type Starch Debranching Enzymes in Monocot and Dicot Leaves. <i>Plant Physiology</i> , 2013, 163, 1363-1375.	2.3	32
18	Function of isoamylase-type starch debranching enzymes <i>ISA</i> 1 and <i>ISA</i> 2 in the <i>Zea mays</i> leaf. <i>New Phytologist</i> , 2013, 200, 1009-1021.	3.5	31

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19	PII1: a protein involved in starch initiation that determines granule number and size in Arabidopsis chloroplast. <i>New Phytologist</i> , 2019, 221, 356-370.	3.5	31
20	The <i>Chlamydomonas mex1</i> mutant shows impaired starch mobilization without maltose accumulation. <i>Journal of Experimental Botany</i> , 2017, 68, 5177-5189.	2.4	16
21	Deletion of BSG1 in <i>Chlamydomonas reinhardtii</i> leads to abnormal starch granule size and morphology. <i>Scientific Reports</i> , 2019, 9, 1990.	1.6	16
22	Expression of <i>Escherichia coli</i> glycogen branching enzyme in an <i>Arabidopsis</i> mutant devoid of endogenous starch branching enzymes induces the synthesis of starch-like polyglucans. <i>Plant, Cell and Environment</i> , 2016, 39, 1432-1447.	2.8	15
23	From dusk till dawn: the <i>Arabidopsis thaliana</i> sugar starving responsive network. <i>Frontiers in Plant Science</i> , 2014, 5, 482.	1.7	10
24	Starch Biosynthesis in Leaves and Its Regulation. , 2015, , 211-237.		5
25	NegFluo, a Fast and Efficient Method to Determine Starch Granule Size and Morphology In Situ in Plant Chloroplasts. <i>Frontiers in Plant Science</i> , 2019, 10, 1075.	1.7	5