

Simona Eicke

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,762
citations

430874

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677142

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1980
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#	ARTICLE	IF	CITATIONS
1	β -AMYLASE4, a Noncatalytic Protein Required for Starch Breakdown, Acts Upstream of Three Active β -Amylases in <i>Arabidopsis</i> Chloroplasts. <i>Plant Cell</i> , 2008, 20, 1040-1058.	6.6	285
2	STARCH-EXCESS4 Is a Laforin-Like Phosphoglucan Phosphatase Required for Starch Degradation in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2009, 21, 334-346.	6.6	208
3	PROTEIN TARGETING TO STARCH Is Required for Localising GRANULE-BOUND STARCH SYNTHASE to Starch Granules and for Normal Amylose Synthesis in <i>Arabidopsis</i> . <i>PLoS Biology</i> , 2015, 13, e1002080.	5.6	139
4	Evidence for Distinct Mechanisms of Starch Granule Breakdown in Plants. <i>Journal of Biological Chemistry</i> , 2006, 281, 12050-12059.	3.4	131
5	Starch Granule Biosynthesis in <i>Arabidopsis</i> Is Abolished by Removal of All Debranching Enzymes but Restored by the Subsequent Removal of an Endoamylase. <i>Plant Cell</i> , 2009, 20, 3448-3466.	6.6	129
6	Blocking the Metabolism of Starch Breakdown Products in <i>Arabidopsis</i> Leaves Triggers Chloroplast Degradation. <i>Molecular Plant</i> , 2009, 2, 1233-1246.	8.3	127
7	Starch synthase 4 is essential for coordination of starch granule formation with chloroplast division during <i>Arabidopsis</i> leaf expansion. <i>New Phytologist</i> , 2013, 200, 1064-1075.	7.3	93
8	Plastid thylakoid architecture optimizes photosynthesis in diatoms. <i>Nature Communications</i> , 2017, 8, 15885.	12.8	93
9	Plastidial NAD-Dependent Malate Dehydrogenase Is Critical for Embryo Development and Heterotrophic Metabolism in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 164, 1175-1190.	4.8	78
10	The Starch Granule-Associated Protein EARLY STARVATION1 Is Required for the Control of Starch Degradation in <i>Arabidopsis thaliana</i> Leaves. <i>Plant Cell</i> , 2016, 28, 1472-1489.	6.6	64
11	Two Plastidial Coiled-Coil Proteins Are Essential for Normal Starch Granule Initiation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2018, 30, 1523-1542.	6.6	62
12	The Simultaneous Abolition of Three Starch Hydrolases Blocks Transient Starch Breakdown in <i>Arabidopsis</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 41745-41756.	3.4	56
13	Distinct Functions of STARCH SYNTHASE 4 Domains in Starch Granule Formation. <i>Plant Physiology</i> , 2018, 176, 566-581.	4.8	50
14	STARCH SYNTHASE5, a Noncanonical Starch Synthase-Like Protein, Promotes Starch Granule Initiation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020, 32, 2543-2565.	6.6	49
15	Genetic Evidence That Chain Length and Branch Point Distributions Are Linked Determinants of Starch Granule Formation in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 165, 1457-1474.	4.8	46
16	A multifaceted analysis reveals two distinct phases of chloroplast biogenesis during de-etiolation in <i>Arabidopsis</i> . <i>ELife</i> , 2021, 10, .	6.0	41
17	Diurnal Leaf Starch Content: An Orphan Trait in Forage Legumes. <i>Agronomy</i> , 2017, 7, 16.	3.0	32
18	LIKE SEX4 1 Acts as a β -Amylase-Binding Scaffold on Starch Granules during Starch Degradation. <i>Plant Cell</i> , 2019, 31, 2169-2186.	6.6	26

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19	Coalescence and directed anisotropic growth of starch granule initials in subdomains of <i>Arabidopsis thaliana</i> chloroplasts. <i>Nature Communications</i> , 2021, 12, 6944.	12.8	21
20	Distinct plastid fructose bisphosphate aldolases function in photosynthetic and non-photosynthetic metabolism in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 3739-3755.	4.8	19
21	Increasing the carbohydrate storage capacity of plants by engineering a glycogen-like polymer pool in the cytosol. <i>Metabolic Engineering</i> , 2017, 40, 23-32.	7.0	7
22	Ectopic maltase alleviates dwarf phenotype and improves plant frost tolerance of maltose transporter mutants. <i>Plant Physiology</i> , 2021, 186, 315-329.	4.8	5