

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

22
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docs citations

24
times ranked

1980
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Distinct plastid fructose biphosphate 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
4	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
5	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
6	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
7	Distinct Functions of STARCH SYNTHASE 4 Domains in Starch Granule Formation. <i>Plant Physiology</i> , 2018, 176, 566-581.	4.8	50
8	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
9	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
10	Plastid thylakoid architecture optimizes photosynthesis in diatoms. <i>Nature Communications</i> , 2017, 8, 15885.	12.8	93
11	Diurnal Leaf Starch Content: An Orphan Trait in Forage Legumes. <i>Agronomy</i> , 2017, 7, 16.	3.0	32
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	Î²-AMYLASE4, a Noncatalytic Protein Required for Starch Breakdown, Acts Upstream of Three Active Î²-Amylases in <i>Arabidopsis</i> Chloroplasts. <i>Plant Cell</i> , 2008, 20, 1040-1058.	6.6	285
22	Evidence for Distinct Mechanisms of Starch Granule Breakdown in Plants. <i>Journal of Biological Chemistry</i> , 2006, 281, 12050-12059.	3.4	131