

David DauvillÃ©

List of Publications by Year in descending order

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37
papers

2,720
citations

168829

31
h-index

371746

37
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38
all docs

38
docs citations

38
times ranked

2900
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Hyper-accumulation of starch and oil in a <i>Chlamydomonas</i> mutant affected in a plant-specific DYRK kinase. <i>Biotechnology for Biofuels</i> , 2016, 9, 55.	6.2	50
5	Evaluation of novel starch-deficient mutants of <i>Chlorella sorokiniana</i> for hyper-accumulation of lipids. <i>Algal Research</i> , 2015, 12, 109-118.	2.4	34
6	Crystal Structure of the <i>Chlamydomonas</i> Starch Debranching Enzyme Isoamylase ISA1 Reveals Insights into the Mechanism of Branch Trimming and Complex Assembly. <i>Journal of Biological Chemistry</i> , 2014, 289, 22991-23003.	1.6	51
7	Metabolic Effectors Secreted by Bacterial Pathogens: Essential Facilitators of Plastid Endosymbiosis? <i>Plant Cell</i> , 2013, 25, 7-21.	3.1	112
8	A Forward Genetic Approach in <i>Chlamydomonas reinhardtii</i> as a Strategy for Exploring Starch Catabolism. <i>PLoS ONE</i> , 2013, 8, e74763.	1.1	28
9	Microarray data can predict diurnal changes of starch content in the picoalga <i>Ostreococcus</i> . <i>BMC Systems Biology</i> , 2011, 5, 36.	3.0	37
10	Relationships between PSII-independent hydrogen bioproduction and starch metabolism as evidenced from isolation of starch catabolism mutants in the green alga <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10731-10740.	3.8	37
11	<i>Chlamydomonas</i> starchless mutant defective in ADP-glucose pyrophosphorylase hyper-accumulates triacylglycerol. <i>Metabolic Engineering</i> , 2010, 12, 387-391.	3.6	338
12	Engineering the Chloroplast Targeted Malarial Vaccine Antigens in <i>Chlamydomonas</i> Starch Granules. <i>PLoS ONE</i> , 2010, 5, e15424.	1.1	72
13	Genetic dissection of floridean starch synthesis in the cytosol of the model dinoflagellate <i>Cryptocodinium cohnii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21126-21130.	3.3	40
14	Hydrogen Production in <i>Chlamydomonas</i> : Photosystem II-Dependent and -Independent Pathways Differ in Their Requirement for Starch Metabolism. <i>Plant Physiology</i> , 2009, 151, 631-640.	2.3	154
15	Early Gene Duplication Within Chloroplastida and Its Correspondence With Relocation of Starch Metabolism to Chloroplasts. <i>Genetics</i> , 2008, 178, 2373-2387.	1.2	84
16	Pathway of Cytosolic Starch Synthesis in the Model Glaucophyte <i>Cyanophora paradoxa</i> . <i>Eukaryotic Cell</i> , 2008, 7, 247-257.	3.4	49
17	Metabolic Symbiosis and the Birth of the Plant Kingdom. <i>Molecular Biology and Evolution</i> , 2008, 25, 536-548.	3.5	153
18	The Heterotrophic Dinoflagellate <i>Cryptocodinium cohnii</i> Defines a Model Genetic System To Investigate Cytoplasmic Starch Synthesis. <i>Eukaryotic Cell</i> , 2008, 7, 872-880.	3.4	35

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19	Plastidial phosphorylase is required for normal starch synthesis in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2006, 48, 274-285.	2.8	105
20	Nature of the Periplastidial Pathway of Starch Synthesis in the Cryptophyte <i>Guillardia theta</i> . <i>Eukaryotic Cell</i> , 2006, 5, 954-963.	3.4	56
21	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
22	Glycogen Phosphorylase, the Product of the <i>glgP</i> Gene, Catalyzes Glycogen Breakdown by Removing Glucose Units from the Nonreducing Ends in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2006, 188, 5266-5272.	1.0	103
23	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
24	Role of the <i>Escherichia coli glgX</i> Gene in Glycogen Metabolism. <i>Journal of Bacteriology</i> , 2005, 187, 1465-1473.	1.0	120
25	Evolution of Plant-Like Crystalline Storage Polysaccharide in the Protozoan Parasite <i>Toxoplasma gondii</i> Argues for a Red Alga Ancestry. <i>Journal of Molecular Evolution</i> , 2005, 60, 257-267.	0.8	120
26	Minimal Extent of Sequence Homology Required for Homologous Recombination at the <i>psbA</i> Locus in <i>Chlamydomonas reinhardtii</i> Chloroplasts using PCR-generated DNA Fragments. <i>Photosynthesis Research</i> , 2004, 79, 219-224.	1.6	31
27	Post-transcriptional steps involved in the assembly of photosystem I in <i>Chlamydomonas</i> . <i>Biochemical Society Transactions</i> , 2004, 32, 567-570.	1.6	21
28	Tab2 is a novel conserved RNA binding protein required for translation of the chloroplast <i>psaB</i> mRNA. <i>EMBO Journal</i> , 2003, 22, 6378-6388.	3.5	75
29	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
30	Granule-bound starch synthase. <i>FEBS Journal</i> , 2002, 269, 3810-3820.	0.2	50
31	When Simpler Is Better. Unicellular Green Algae for Discovering New Genes and Functions in Carbohydrate Metabolism: Fig. 1.. <i>Plant Physiology</i> , 2001, 127, 1334-1338.	2.3	46
32	Two Loci Control Phytyglycogen Production in the Monocellular Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2001, 125, 1710-1722.	2.3	45
33	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
34	The debranching enzyme complex missing in glycogen accumulating mutants of <i>Chlamydomonas reinhardtii</i> displays an isoamylase-type specificity. <i>Plant Science</i> , 2000, 157, 145-156.	1.7	27
35	Genetic and Biochemical Evidence for the Involvement of α -1,4 Glucanotransferases in Amylopectin Synthesis. <i>Plant Physiology</i> , 1999, 120, 993-1004.	2.3	97
36	Novel, Starch-Like Polysaccharides Are Synthesized by an Unbound Form of Granule-Bound Starch Synthase in Glycogen-Accumulating Mutants of <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1999, 119, 321-330.	2.3	73

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37	Biochemical Characterization of the <i>Chlamydomonas reinhardtii</i> Î±-1,4 Glucanotransferase Supports a Direct Function in Amylopectin Biosynthesis1. <i>Plant Physiology</i> , 1999, 120, 1005-1014.	2.3	80