David Seung

List of Publications by Year
in descending order

25 papers	1,470 citations	516710 16 h-index	580821 25 g-index
27 all docs	27 docs citations	27 times ranked	1649 citing authors

#	Article	IF	Citations
1	Regulation of Leaf Starch Degradation by Abscisic Acid Is Important for Osmotic Stress Tolerance in Plants. Plant Cell, 2016, 28, 1860-1878.	6.6	254
2	PROTEIN TARGETING TO STARCH Is Required for Localising GRANULE-BOUND STARCH SYNTHASE to Starch Granules and for Normal Amylose Synthesis in Arabidopsis. PLoS Biology, 2015, 13, e1002080.	5.6	139
3	The Phosphoglucan Phosphatase Like Sex Four2 Dephosphorylates Starch at the C3-Position in <i>Arabidopsis</i> Â Â. Plant Cell, 2011, 23, 4096-4111.	6.6	119
4	Accelerated ex situ breeding of <i>GBSS</i> - and <i>PTST1</i> -edited cassava for modified starch. Science Advances, 2018, 4, eaat6086.	10.3	111
5	Homologs of PROTEIN TARGETING TO STARCH Control Starch Granule Initiation in Arabidopsis Leaves. Plant Cell, 2017, 29, 1657-1677.	6.6	109
6	Amylose in starch: towards an understanding of biosynthesis, structure and function. New Phytologist, 2020, 228, 1490-1504.	7.3	109
7	Arabidopsis thaliana AMY3 Is a Unique Redox-regulated Chloroplastic Î±-Amylase. Journal of Biological Chemistry, 2013, 288, 33620-33633.	3.4	79
8	Circadian clock-dependent gating in ABA signalling networks. Protoplasma, 2012, 249, 445-457.	2.1	67
9	The Starch Granule-Associated Protein EARLY STARVATION1 Is Required for the Control of Starch Degradation in <i>Arabidopsis thaliana</i> Leaves. Plant Cell, 2016, 28, 1472-1489.	6.6	64
10	Two Plastidial Coiled-Coil Proteins Are Essential for Normal Starch Granule Initiation in Arabidopsis. Plant Cell, 2018, 30, 1523-1542.	6.6	62
11	Starch granule initiation and morphogenesisâ€"progress in Arabidopsis and cereals. Journal of Experimental Botany, 2019, 70, 771-784.	4.8	56
12	STARCH SYNTHASE5, a Noncanonical Starch Synthase-Like Protein, Promotes Starch Granule Initiation in Arabidopsis. Plant Cell, 2020, 32, 2543-2565.	6.6	49
13	Degradation of Glucan Primers in the Absence of Starch Synthase 4 Disrupts Starch Granule Initiation in Arabidopsis. Journal of Biological Chemistry, 2016, 291, 20718-20728.	3.4	39
14	A carbohydrate-binding protein, B-GRANULE CONTENT 1, influences starch granule size distribution in a dose-dependent manner in polyploid wheat. Journal of Experimental Botany, 2020, 71, 105-115.	4.8	36
15	Genotypic variation in the accumulation of water soluble carbohydrates in wheat. Functional Plant Biology, 2012, 39, 560.	2.1	29
16	LIKE SEX4 1 Acts as a Î²-Amylase-Binding Scaffold on Starch Granules during Starch Degradation. Plant Cell, 2019, 31, 2169-2186.	6.6	26
17	STARCH SYNTHASE 4 is required for normal starch granule initiation in amyloplasts of wheat endosperm. New Phytologist, 2021, 230, 2371-2386.	7.3	25
18	Towards targeted starch modification in plants. Current Opinion in Plant Biology, 2021, 60, 102013.	7.1	24

#	Article	IF	Citations
19	The Thioredoxin-Regulated Î±-Amylase 3 of Arabidopsis thaliana Is a Target of S-Glutathionylation. Frontiers in Plant Science, 2019, 10, 993.	3.6	17
20	Effects of Soil Type and Tillage on Protein and Starch Quality in Three Related Wheat Genotypes. Cereal Chemistry, 2010, 87, 95-99.	2.2	15
21	Dissecting the mechanism of abscisic acid-induced dynamic microtubule reorientation using live cell imaging. Functional Plant Biology, 2013, 40, 224.	2.1	13
22	Natural Polymorphisms in Arabidopsis Result in Wide Variation or Loss of the Amylose Component of Starch. Plant Physiology, 2020, 182, 870-881.	4.8	11
23	Increasing the carbohydrate storage capacity of plants by engineering a glycogen-like polymer pool in the cytosol. Metabolic Engineering, 2017, 40, 23-32.	7.0	7
24	Sub-cellular damage by copper in the cnidarian Zoanthus robustus. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2010, 152, 256-262.	2.6	4
25	Loss of PROTEIN TARGETING TO STARCH 2 has variable effects on starch synthesis across organs and species. Journal of Experimental Botany, 2022, 73, 6367-6379.	4.8	4