Changcheng Xu

List of Publications by Year
in descending order

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47	5,158	159585	223800
papers	citations	30 h-index	46 g-index

48	48	48	5067
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Acyl-Lipid Metabolism. The Arabidopsis Book, 2013, 11, e0161.	0.5	974
2	Arabidopsis disrupted in SQD2 encoding sulfolipid synthase is impaired in phosphate-limited growth. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5732-5737.	7.1	306
3	A chloroplast pathway for the de novo biosynthesis of triacylglycerol inChlamydomonas reinhardtii. FEBS Letters, 2011, 585, 1985-1991.	2.8	291
4	The Tomato Suppressor of prosystemin-mediated responses2 Gene Encodes a Fatty Acid Desaturase Required for the Biosynthesis of Jasmonic Acid and the Production of a Systemic Wound Signal for Defense Gene Expression. Plant Cell, 2003, 15, 1646-1661.	6.6	245
5	Fatty Acid and Lipid Transport in Plant Cells. Trends in Plant Science, 2016, 21, 145-158.	8.8	227
6	Triacylglycerol Metabolism, Function, and Accumulation in Plant Vegetative Tissues. Annual Review of Plant Biology, 2016, 67, 179-206.	18.7	220
7	Oil accumulation is controlled by carbon precursor supply for fatty acid synthesis in Chlamydomonas reinhardtii. Plant and Cell Physiology, 2012, 53, 1380-1390.	3.1	210
8	A permease-like protein involved in ER to thylakoid lipid transfer in Arabidopsis. EMBO Journal, 2003, 22, 2370-2379.	7.8	206
9	A phosphatidic acid-binding protein of the chloroplast inner envelope membrane involved in lipid trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10817-10822.	7.1	206
10	Mutation of the TGD1 Chloroplast Envelope Protein Affects Phosphatidate Metabolism in Arabidopsis Â. Plant Cell, 2005, 17, 3094-3110.	6.6	179
11	Arabidopsis Lipins, PDAT1 Acyltransferase, and SDP1 Triacylglycerol Lipase Synergistically Direct Fatty Acids toward Î²-Oxidation, Thereby Maintaining Membrane Lipid Homeostasis. Plant Cell, 2014, 26, 4119-4134.	6.6	148
12	Dual Role for Phospholipid:Diacylglycerol Acyltransferase: Enhancing Fatty Acid Synthesis and Diverting Fatty Acids from Membrane Lipids to Triacylglycerol in Arabidopsis Leaves. Plant Cell, 2013, 25, 3506-3518.	6.6	145
13	The pgp1 Mutant Locus of Arabidopsis Encodes a Phosphatidylglycerolphosphate Synthase with Impaired Activity. Plant Physiology, 2002, 129, 594-604.	4.8	131
14	A Small ATPase Protein of Arabidopsis, TGD3, Involved in Chloroplast Lipid Import. Journal of Biological Chemistry, 2007, 282, 35945-35953.	3.4	127
15	Lipid Trafficking between the Endoplasmic Reticulum and the Plastid in Arabidopsis Requires the Extraplastidic TGD4 Protein. Plant Cell, 2008, 20, 2190-2204.	6.6	125
16	Characterization of the Arabidopsis thermosensitive mutant atts02 reveals an important role for galactolipids in thermotolerance. Plant, Cell and Environment, 2006, 29, 1437-1448.	5.7	115
17	Phospholipid:diacylglycerol acyltransferaseâ€mediated triacylglycerol biosynthesis is crucial for protection against fatty acidâ€induced cell death in growing tissues of <scp>A</scp>rabidopsis. Plant Journal, 2013, 76, 930-942.	5.7	108
18	A Central Role for Triacylglycerol in Membrane Lipid Breakdown, Fatty Acid Î²-Oxidation, and Plant Survival under Extended Darkness. Plant Physiology, 2017, 174, 1517-1530.	4.8	108

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19	Phosphatidylglycerol biosynthesis in chloroplasts of Arabidopsis mutants deficient in acyl-ACP glycerol-3- phosphate acyltransferase. Plant Journal, 2006, 47, 296-309.	5.7	95
20	TGD4 involved in endoplasmic reticulumâ€toâ€chloroplast lipid trafficking is a phosphatidic acid binding protein. Plant Journal, 2012, 70, 614-623.	5.7	94
21	FATTY ACID DESATURASE4 of Arabidopsis encodes a protein distinct from characterized fatty acid desaturases. Plant Journal, 2009, 60, 832-839.	5.7	84
22	Dual Role for Autophagy in Lipid Metabolism in Arabidopsis. Plant Cell, 2019, 31, 1598-1613.	6.6	82
23	Arabidopsis TRIGALACTOSYLDIACYLGLYCEROL5 Interacts with TGD1, TGD2, and TGD4 to Facilitate Lipid Transfer from the Endoplasmic Reticulum to Plastids. Plant Cell, 2015, 27, tpc.15.00394.	6.6	79
24	Mechanisms and functions of membrane lipid remodeling in plants. Plant Journal, 2021, 107, 37-53.	5.7	78
25	Non-vesicular and vesicular lipid trafficking involving plastids. Current Opinion in Plant Biology, 2006, 9, 241-247.	7.1	77
26	Theglossyhead1Allele ofACC1Reveals a Principal Role for Multidomain Acetyl-Coenzyme A Carboxylase in the Biosynthesis of Cuticular Waxes by Arabidopsis Â Â. Plant Physiology, 2011, 157, 1079-1092.	4.8	62
27	Lipid Transport Mediated by Arabidopsis TGD Proteins is Unidirectional from the Endoplasmic Reticulum to the Plastid. Plant and Cell Physiology, 2010, 51, 1019-1028.	3.1	58
28	Arabidopsis chloroplast lipid transport protein TGD2 disrupts membranes and is part of a large complex. Plant Journal, 2011, 66, 759-769.	5.7	51
29	Starch Deficiency Enhances Lipid Biosynthesis and Turnover in Leaves. Plant Physiology, 2018, 178, 118-129.	4.8	44
30	Sugar Potentiation of Fatty Acid and Triacylglycerol Accumulation. Plant Physiology, 2017, 175, 696-707.	4.8	38
31	Metabolic and functional connections between cytoplasmic and chloroplast triacylglycerol storage. Progress in Lipid Research, 2020, 80, 101069.	11.6	32
32	Mutation of a mitochondrial outer membrane protein affects chloroplast lipid biosynthesis. Plant Journal, 2008, 54, 163-175.	5.7	30
33	Cytokinin Signaling in Mycobacterium tuberculosis. MBio, 2018, 9, .	4.1	28
34	Peroxisomal fatty acid Î²-oxidation negatively impacts plant survival under salt stress. Plant Signaling and Behavior, 2019, 14, 1561121.	2.4	22
35	Sterols are required for the coordinated assembly of lipid droplets in developing seeds. Nature Communications, 2021, 12, 5598.	12.8	21
36	Chloroplast lipid biosynthesis is fine-tuned to thylakoid membrane remodeling during light acclimation. Plant Physiology, 2021, 185, 94-107.	4.8	20

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37	Links between autophagy and lipid droplet dynamics. Journal of Experimental Botany, 2022, 73, 2848-2858.	4.8	18
38	The Role of Sugar Signaling in Regulating Plant Fatty Acid Synthesis. Frontiers in Plant Science, 2021, 12, 643843.	3.6	15
39	Cellular Organization of Triacylglycerol Biosynthesis in Microalgae. Sub-Cellular Biochemistry, 2016, 86, 207-221.	2.4	14
40	Diversion of Carbon Flux from Sugars to Lipids Improves the Growth of an Arabidopsis Starchless Mutant. Plants, 2019, 8, 229.	3.5	14
41	Analysis of Oil Droplets in Microalgae. Methods in Cell Biology, 2013, 116, 71-82.	1.1	13
42	Genetic analysis of Arabidopsis mutants impaired in plastid lipid import reveals a role of membrane lipids in chloroplast division. Plant Signaling and Behavior, 2011, 6, 458-460.	2.4	11
43	Corrigendum to â€œA chloroplast pathway for the de novo biosynthesis of triacylglycerol inChlamydomonas reinhardtiiâ€•[FEBS Lett. 585 (2011) 1985-1991]. FEBS Letters, 2011, 585, 4029-4029.	2.8	2
44	TGD3, an ATPase Protein of Arabidopsis, Functions in ERâ€toâ€Plastid Lipid Trafficking. FASEB Journal, 2007, 21, A236.	0.5	2
45	Lipid trafficking between the endoplasmic reticulum and the chloroplast in the model plant Arabidopsis. FASEB Journal, 2007, 21, A37.	0.5	2
46	Using 14C-acetate Pulse-chase Labeling to Study Fatty Acid and Glycerolipid Metabolism in Plant Leaves. Bio-protocol, 2021, 11, e3900.	0.4	1
47	DGS1, a membraneâ€tethered transcriptional regulator of chloroplast lipid biosynthesis in Arabidopsis. FASEB Journal, 2006, 20, A87.	0.5	0