John M Dyer

List of Publications by Year in Descending Order

59 papers	3,850 citations	32 h-index	60 g-index
60 ext. papers	4,531 ext. citations	6.5 avg, IF	5.19 L-index

#	Paper	IF	Citations
59	EARLY RESPONSIVE TO DEHYDRATION 7 Localizes to Lipid Droplets via Its Senescence Domain. *Frontiers in Plant Science*, **2021**, 12, 658961	6.2	0
58	LDIP cooperates with SEIPIN and LDAP to facilitate lipid droplet biogenesis in Arabidopsis. *Plant Cell*, **2021**, 33, 3076-3103	11.6	8
57	Lipid droplets in plants and algae: Distribution, formation, turnover and function. *Seminars in Cell and Developmental Biology*, **2020**, 108, 82-93	7.5	23
56	The genome of jojoba (): A taxonomically isolated species that directs wax ester accumulation in its seeds. *Science Advances*, **2020**, 6, eaay3240	14.3	28
55	Genome-wide association study identifies acyl-lipid metabolism candidate genes involved in the genetic control of natural variation for seed fatty acid traits in Brassica napus L.. *Industrial Crops and Products*, **2020**, 145, 112080	5.9	4
54	SEIPIN Isoforms Interact with the Membrane-Tethering Protein VAP27-1 for Lipid Droplet Formation. *Plant Cell*, **2020**, 32, 2932-2950	11.6	20
53	Mouse Fat-Specific Protein 27 (FSP27) expressed in plant cells localizes to lipid droplets and promotes lipid droplet accumulation and fusion. *Biochimie*, **2020**, 169, 41-53	4.6	5
52	Lipid DropletPeroxisome Connections in Plants. *Contact (Thousand Oaks (Ventura County, Calif))*, **2020**, 3, 251525642090876	2.6	3
51	Genetic Diversity and Population Structure of a Spring Panel. *Frontiers in Plant Science*, **2019**, 10, 184	6.2	56
50	Mechanisms of lipid droplet biogenesis. *Biochemical Journal*, **2019**, 476, 1929-1942	3.8	39
49	Metabolic engineering for enhanced oil in biomass. *Progress in Lipid Research*, **2019**, 74, 103-129	14.3	48
48	An RK/ST C-Terminal Motif is Required for Targeting of OEP7.2 and a Subset of Other Arabidopsis Tail-Anchored Proteins to the Plastid Outer Envelope Membrane. *Plant and Cell Physiology*, **2019**, 60, 516-537	4.9	7
47	Response of high leaf-oil Arabidopsis thaliana plant lines to biotic or abiotic stress. *Plant Signaling and Behavior*, **2018**, 13, e1464361	2.5	10
46	Deploying a Proximal Sensing Cart to Identify Drought-Adaptive Traits in Upland Cotton for High-Throughput Phenotyping. *Frontiers in Plant Science*, **2018**, 9, 507	6.2	20
45	Distinct domains within the NITROGEN LIMITATION ADAPTATION protein mediate its subcellular localization and function in the nitrate-dependent phosphate homeostasis pathway. *Botany*, **2018**, 96, 79-96	1.3	1
44	Engineering the production of conjugated fatty acids in Arabidopsis thaliana leaves. *Plant Biotechnology Journal*, **2017**, 15, 1010-1023	11.6	21
43	Turning Over a New Leaf in Lipid Droplet Biology. *Trends in Plant Science*, **2017**, 22, 596-609	13.1	84

42	Mouse fat storage-inducing transmembrane protein 2 (FIT2) promotes lipid droplet accumulation in plants. *Plant Biotechnology Journal*, **2017**, 15, 824-836	11.6	21
41	Arabidopsis lipid droplet-associated protein (LDAP) - interacting protein (LDIP) influences lipid droplet size and neutral lipid homeostasis in both leaves and seeds. *Plant Journal*, **2017**, 92, 1182-1201	6.9	47
40	A century of guayule: Comprehensive genetic characterization of the US national guayule (Parthenium argentatum A. Gray) germplasm collection. *Industrial Crops and Products*, **2017**, 109, 300-309	5.9	20
39	Lipid Droplet-Associated Proteins (LDAPs) Are Required for the Dynamic Regulation of Neutral Lipid Compartmentation in Plant Cells. *Plant Physiology*, **2016**, 170, 2052-71	6.6	87
38	Arabidopsis GPAT9 contributes to synthesis of intracellular glycerolipids but not surface lipids. *Journal of Experimental Botany*, **2016**, 67, 4627-38	7	58
37	Dedicated Industrial Oilseed Crops as Metabolic Engineering Platforms for Sustainable Industrial Feedstock Production. *Scientific Reports*, **2016**, 6, 22181	4.9	42
36	Development and analysis of a highly flexible multi-gene expression system for metabolic engineering in Arabidopsis seeds and other plant tissues. *Plant Molecular Biology*, **2015**, 89, 113-26	4.6	19
35	Genomic diversity and phylogenetic relationships in the genus Parthenium (Asteraceae). *Industrial Crops and Products*, **2015**, 76, 920-929	5.9	14
34	Arabidopsis SEIPIN Proteins Modulate Triacylglycerol Accumulation and Influence Lipid Droplet Proliferation. *Plant Cell*, **2015**, 27, 2616-36	11.6	96
33	New insights into the targeting of a subset of tail-anchored proteins to the outer mitochondrial membrane. *Frontiers in Plant Science*, **2014**, 5, 426	6.2	23
32	CGI-58, a key regulator of lipid homeostasis and signaling in plants, also regulates polyamine metabolism. *Plant Signaling and Behavior*, **2014**, 9, e27723	2.5	9
31	Molecular properties of the class III subfamily of acyl-coenyzme A binding proteins from tung tree (Vernicia fordii). *Plant Science*, **2013**, 203-204, 79-88	5.3	17
30	Identification of a new class of lipid droplet-associated proteins in plants. *Plant Physiology*, **2013**, 162, 1926-36	6.6	134
29	Molecular characterization of the fatty alcohol oxidation pathway for wax-ester mobilization in germinated jojoba seeds. *Plant Physiology*, **2013**, 161, 72-80	6.6	22
28	Commentary: why don't plant leaves get fat?. *Plant Science*, **2013**, 207, 128-34	5.3	82
27	The [illegible]/[illegible]hydrolase CGI-58 and peroxisomal transport protein PXA1 coregulate lipid homeostasis and signaling in Arabidopsis. *Plant Cell*, **2013**, 25, 1726-39	11.6	60
26	Plant acyl-CoA:lysophosphatidylcholine acyltransferases (LPCATs) have different specificities in their forward and reverse reactions. *Journal of Biological Chemistry*, **2013**, 288, 36902-14	5.4	86
25	Lipid droplet-associated proteins (LDAPs) are involved in the compartmentalization of lipophilic compounds in plant cells. *Plant Signaling and Behavior*, **2013**, 8, e27141	2.5	41

24	Biogenesis and functions of lipid droplets in plants: Thematic Review Series: Lipid Droplet Synthesis and Metabolism: from Yeast to Man. *Journal of Lipid Research*, **2012**, 53, 215-26	6.3	250
23	Hydrophobic-domain-dependent protein-protein interactions mediate the localization of GPAT enzymes to ER subdomains. *Traffic*, **2011**, 12, 452-72	5.7	43
22	Expression of a lipid-inducible, self-regulating form of Yarrowia lipolytica lipase LIP2 in Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **2011**, 92, 1207-17	5.7	9
21	The N termini of Brassica and tung omega-3 fatty acid desaturases mediate proteasome-dependent protein degradation in plant cells. *Plant Signaling and Behavior*, **2011**, 6, 422-5	2.5	9
20	Temperature-sensitive post-translational regulation of plant omega-3 fatty-acid desaturases is mediated by the endoplasmic reticulum-associated degradation pathway. *Journal of Biological Chemistry*, **2010**, 285, 21781-96	5.4	58
19	Disruption of the Arabidopsis CGI-58 homologue produces Chanarin-Dorfman-like lipid droplet accumulation in plants. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 17833-8	11.5	103
18	Addition of an N-terminal epitope tag significantly increases the activity of plant fatty acid desaturases expressed in yeast cells. *Applied Microbiology and Biotechnology*, **2009**, 83, 117-25	5.7	11
17	Oil accumulation in leaves directed by modification of fatty acid breakdown and lipid synthesis pathways. *Plant Biotechnology Journal*, **2009**, 7, 694-703	11.6	146
16	Arabidopsis thaliana GPAT8 and GPAT9 are localized to the ER and possess distinct ER retrieval signals: functional divergence of the dilysine ER retrieval motif in plant cells. *Plant Physiology and Biochemistry*, **2009**, 47, 867-79	5.4	98
15	Metabolic engineering of hydroxy fatty acid production in plants: RcDGAT2 drives dramatic increases in ricinoleate levels in seed oil. *Plant Biotechnology Journal*, **2008**, 6, 819-31	11.6	249
14	High-value oils from plants. *Plant Journal*, **2008**, 54, 640-55	6.9	314
13	Engineering plant oils as high-value industrial feedstocks for biorefining: the need for underpinning cell biology research. *Physiologia Plantarum*, **2008**, 132, 11-22	4.6	42
12	Engineering oilseeds for sustainable production of industrial and nutritional feedstocks: solving bottlenecks in fatty acid flux. *Current Opinion in Plant Biology*, **2007**, 10, 236-44	9.9	166
11	The C-terminus of cytochrome b5 confers endoplasmic reticulum specificity by preventing spontaneous insertion into membranes. *Biochemical Journal*, **2007**, 401, 701-9	3.8	18
10	Conjugated fatty acids accumulate to high levels in phospholipids of metabolically engineered soybean and Arabidopsis seeds. *Phytochemistry*, **2006**, 67, 1166-76	4	118
9	Tung tree DGAT1 and DGAT2 have nonredundant functions in triacylglycerol biosynthesis and are localized to different subdomains of the endoplasmic reticulum. *Plant Cell*, **2006**, 18, 2294-313	11.6	393
8	Cloning, functional analysis, and subcellular localization of two isoforms of NADH:cytochrome b5 reductase from developing seeds of tung (Vernicia fordii). *Plant Science*, **2005**, 169, 375-385	5.3	19
7	Development and potential of genetically engineered oilseeds. *Seed Science Research*, **2005**, 15, 255-267	1.3	39

6	Novel targeting signals mediate the sorting of different isoforms of the tail-anchored membrane protein cytochrome b5 to either endoplasmic reticulum or mitochondria. *Plant Cell*, **2004**, 16, 3002-19	11.6	77
5	Membrane-bound fatty acid desaturases are inserted co-translationally into the ER and contain different ER retrieval motifs at their carboxy termini. *Plant Journal*, **2004**, 37, 156-73	6.9	158
4	Production of linolenic acid in yeast cells expressing an omega-3 desaturase from tung (Aleurites fordii). *JAOCS, Journal of the American Oil Chemistsr Society*, **2004**, 81, 647-651	1.8	19
3	Molecular analysis of a bifunctional fatty acid conjugase/desaturase from tung. Implications for the evolution of plant fatty acid diversity. *Plant Physiology*, **2002**, 130, 2027-38	6.6	138
2	Chilling-sensitive, post-transcriptional regulation of a plant fatty acid desaturase expressed in yeast. *Biochemical and Biophysical Research Communications*, **2001**, 282, 1019-25	3.4	44
1	Immunocytological localization of two plant fatty acid desaturases in the endoplasmic reticulum. *FEBS Letters*, **2001**, 494, 44-7	3.8	73