

John M Dyer

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Tung tree DGAT1 and DGAT2 have nonredundant functions in triacylglycerol biosynthesis and are localized to different subdomains of the endoplasmic reticulum. <i>Plant Cell</i> , 2006 , 18, 2294-313	11.6	393
58	High-value oils from plants. <i>Plant Journal</i> , 2008 , 54, 640-55	6.9	314
57	Biogenesis and functions of lipid droplets in plants: Thematic Review Series: Lipid Droplet Synthesis and Metabolism: from Yeast to Man. <i>Journal of Lipid Research</i> , 2012 , 53, 215-26	6.3	250
56	Metabolic engineering of hydroxy fatty acid production in plants: RcDGAT2 drives dramatic increases in ricinoleate levels in seed oil. <i>Plant Biotechnology Journal</i> , 2008 , 6, 819-31	11.6	249
55	Engineering oilseeds for sustainable production of industrial and nutritional feedstocks: solving bottlenecks in fatty acid flux. <i>Current Opinion in Plant Biology</i> , 2007 , 10, 236-44	9.9	166
54	Membrane-bound fatty acid desaturases are inserted co-translationally into the ER and contain different ER retrieval motifs at their carboxy termini. <i>Plant Journal</i> , 2004 , 37, 156-73	6.9	158
53	Oil accumulation in leaves directed by modification of fatty acid breakdown and lipid synthesis pathways. <i>Plant Biotechnology Journal</i> , 2009 , 7, 694-703	11.6	146
52	Molecular analysis of a bifunctional fatty acid conjugase/desaturase from tung. Implications for the evolution of plant fatty acid diversity. <i>Plant Physiology</i> , 2002 , 130, 2027-38	6.6	138
51	Identification of a new class of lipid droplet-associated proteins in plants. <i>Plant Physiology</i> , 2013 , 162, 1926-36	6.6	134
50	Conjugated fatty acids accumulate to high levels in phospholipids of metabolically engineered soybean and Arabidopsis seeds. <i>Phytochemistry</i> , 2006 , 67, 1166-76	4	118
49	Disruption of the Arabidopsis CGI-58 homologue produces Chananin-Dorfman-like lipid droplet accumulation in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17833-8	11.5	103
48	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. <i>Plant Physiology and Biochemistry</i> , 2009 , 47, 867-79	5.4	98
47	Arabidopsis SEIPIN Proteins Modulate Triacylglycerol Accumulation and Influence Lipid Droplet Proliferation. <i>Plant Cell</i> , 2015 , 27, 2616-36	11.6	96
46	Lipid Droplet-Associated Proteins (LDAPs) Are Required for the Dynamic Regulation of Neutral Lipid Compartmentation in Plant Cells. <i>Plant Physiology</i> , 2016 , 170, 2052-71	6.6	87
45	Plant acyl-CoA:lysophosphatidylcholine acyltransferases (LPCATs) have different specificities in their forward and reverse reactions. <i>Journal of Biological Chemistry</i> , 2013 , 288, 36902-14	5.4	86
44	Turning Over a New Leaf in Lipid Droplet Biology. <i>Trends in Plant Science</i> , 2017 , 22, 596-609	13.1	84
43	Commentary: why don't plant leaves get fat?. <i>Plant Science</i> , 2013 , 207, 128-34	5.3	82

42	Novel targeting signals mediate the sorting of different isoforms of the tail-anchored membrane protein cytochrome b5 to either endoplasmic reticulum or mitochondria. <i>Plant Cell</i> , 2004 , 16, 3002-19	11.6	77
41	Immunocytological localization of two plant fatty acid desaturases in the endoplasmic reticulum. <i>FEBS Letters</i> , 2001 , 494, 44-7	3.8	73
40	The th hydrolase CGI-58 and peroxisomal transport protein PXA1 coregulate lipid homeostasis and signaling in Arabidopsis. <i>Plant Cell</i> , 2013 , 25, 1726-39	11.6	60
39	Temperature-sensitive post-translational regulation of plant omega-3 fatty-acid desaturases is mediated by the endoplasmic reticulum-associated degradation pathway. <i>Journal of Biological Chemistry</i> , 2010 , 285, 21781-96	5.4	58
38	Arabidopsis GPAT9 contributes to synthesis of intracellular glycerolipids but not surface lipids. <i>Journal of Experimental Botany</i> , 2016 , 67, 4627-38	7	58
37	Genetic Diversity and Population Structure of a Spring Panel. <i>Frontiers in Plant Science</i> , 2019 , 10, 184	6.2	56
36	Metabolic engineering for enhanced oil in biomass. <i>Progress in Lipid Research</i> , 2019 , 74, 103-129	14.3	48
35	Arabidopsis lipid droplet-associated protein (LDAP) - interacting protein (LDIP) influences lipid droplet size and neutral lipid homeostasis in both leaves and seeds. <i>Plant Journal</i> , 2017 , 92, 1182-1201	6.9	47
34	Chilling-sensitive, post-transcriptional regulation of a plant fatty acid desaturase expressed in yeast. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 282, 1019-25	3.4	44
33	Hydrophobic-domain-dependent protein-protein interactions mediate the localization of GPAT enzymes to ER subdomains. <i>Traffic</i> , 2011 , 12, 452-72	5.7	43
32	Engineering plant oils as high-value industrial feedstocks for biorefining: the need for underpinning cell biology research. <i>Physiologia Plantarum</i> , 2008 , 132, 11-22	4.6	42
31	Dedicated Industrial Oilseed Crops as Metabolic Engineering Platforms for Sustainable Industrial Feedstock Production. <i>Scientific Reports</i> , 2016 , 6, 22181	4.9	42
30	Lipid droplet-associated proteins (LDAPs) are involved in the compartmentalization of lipophilic compounds in plant cells. <i>Plant Signaling and Behavior</i> , 2013 , 8, e27141	2.5	41
29	Mechanisms of lipid droplet biogenesis. <i>Biochemical Journal</i> , 2019 , 476, 1929-1942	3.8	39
28	Development and potential of genetically engineered oilseeds. <i>Seed Science Research</i> , 2005 , 15, 255-267	1.3	39
27	The genome of jojoba (<i>Simmondsia chinensis</i>): A taxonomically isolated species that directs wax ester accumulation in its seeds. <i>Science Advances</i> , 2020 , 6, eaay3240	14.3	28
26	Lipid droplets in plants and algae: Distribution, formation, turnover and function. <i>Seminars in Cell and Developmental Biology</i> , 2020 , 108, 82-93	7.5	23
25	New insights into the targeting of a subset of tail-anchored proteins to the outer mitochondrial membrane. <i>Frontiers in Plant Science</i> , 2014 , 5, 426	6.2	23

24	Molecular characterization of the fatty alcohol oxidation pathway for wax-ester mobilization in germinated jojoba seeds. <i>Plant Physiology</i> , 2013 , 161, 72-80	6.6	22
23	Engineering the production of conjugated fatty acids in <i>Arabidopsis thaliana</i> leaves. <i>Plant Biotechnology Journal</i> , 2017 , 15, 1010-1023	11.6	21
22	Mouse fat storage-inducing transmembrane protein 2 (FIT2) promotes lipid droplet accumulation in plants. <i>Plant Biotechnology Journal</i> , 2017 , 15, 824-836	11.6	21
21	A century of guayule: Comprehensive genetic characterization of the US national guayule (<i>Parthenium argentatum</i> A. Gray) germplasm collection. <i>Industrial Crops and Products</i> , 2017 , 109, 300-305	5.9	20
20	Deploying a Proximal Sensing Cart to Identify Drought-Adaptive Traits in Upland Cotton for High-Throughput Phenotyping. <i>Frontiers in Plant Science</i> , 2018 , 9, 507	6.2	20
19	SEIPIN Isoforms Interact with the Membrane-Tethering Protein VAP27-1 for Lipid Droplet Formation. <i>Plant Cell</i> , 2020 , 32, 2932-2950	11.6	20
18	Development and analysis of a highly flexible multi-gene expression system for metabolic engineering in <i>Arabidopsis</i> seeds and other plant tissues. <i>Plant Molecular Biology</i> , 2015 , 89, 113-26	4.6	19
17	Cloning, functional analysis, and subcellular localization of two isoforms of NADH:cytochrome b5 reductase from developing seeds of tung (<i>Vernicia fordii</i>). <i>Plant Science</i> , 2005 , 169, 375-385	5.3	19
16	Production of linolenic acid in yeast cells expressing an omega-3 desaturase from tung (<i>Aleurites fordii</i>). <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2004 , 81, 647-651	1.8	19
15	The C-terminus of cytochrome b5 confers endoplasmic reticulum specificity by preventing spontaneous insertion into membranes. <i>Biochemical Journal</i> , 2007 , 401, 701-9	3.8	18
14	Molecular properties of the class III subfamily of acyl-coenzyme A binding proteins from tung tree (<i>Vernicia fordii</i>). <i>Plant Science</i> , 2013 , 203-204, 79-88	5.3	17
13	Genomic diversity and phylogenetic relationships in the genus <i>Parthenium</i> (Asteraceae). <i>Industrial Crops and Products</i> , 2015 , 76, 920-929	5.9	14
12	Addition of an N-terminal epitope tag significantly increases the activity of plant fatty acid desaturases expressed in yeast cells. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 117-25	5.7	11
11	Response of high leaf-oil <i>Arabidopsis thaliana</i> plant lines to biotic or abiotic stress. <i>Plant Signaling and Behavior</i> , 2018 , 13, e1464361	2.5	10
10	CGI-58, a key regulator of lipid homeostasis and signaling in plants, also regulates polyamine metabolism. <i>Plant Signaling and Behavior</i> , 2014 , 9, e27723	2.5	9
9	Expression of a lipid-inducible, self-regulating form of <i>Yarrowia lipolytica</i> lipase LIP2 in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2011 , 92, 1207-17	5.7	9
8	The N termini of Brassica and tung omega-3 fatty acid desaturases mediate proteasome-dependent protein degradation in plant cells. <i>Plant Signaling and Behavior</i> , 2011 , 6, 422-5	2.5	9
7	LDIP cooperates with SEIPIN and LDAP to facilitate lipid droplet biogenesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2021 , 33, 3076-3103	11.6	8

6	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. <i>Plant and Cell Physiology</i> , 2019 , 60, 516-537	4.9	7
5	Mouse Fat-Specific Protein 27 (FSP27) expressed in plant cells localizes to lipid droplets and promotes lipid droplet accumulation and fusion. <i>Biochimie</i> , 2020 , 169, 41-53	4.6	5
4	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.. <i>Industrial Crops and Products</i> , 2020 , 145, 112080	5.9	4
3	Lipid DropletPeroxisome Connections in Plants. <i>Contact (Thousand Oaks (Ventura County, Calif))</i> , 2020 , 3, 251525642090876	2.6	3
2	Distinct domains within the NITROGEN LIMITATION ADAPTATION protein mediate its subcellular localization and function in the nitrate-dependent phosphate homeostasis pathway. <i>Botany</i> , 2018 , 96, 79-96	1.3	1
1	EARLY RESPONSIVE TO DEHYDRATION 7 Localizes to Lipid Droplets via Its Senescence Domain. <i>Frontiers in Plant Science</i> , 2021 , 12, 658961	6.2	0