

Tony R Larson

List of Publications by Year in descending order

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docs citations

79
times ranked

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#	ARTICLE	IF	CITATIONS
1	Acyl-Lipid Metabolism. The Arabidopsis Book, 2013, 11, e0161.	0.5	974
2	CAMERA: An Integrated Strategy for Compound Spectra Extraction and Annotation of Liquid Chromatography/Mass Spectrometry Data Sets. Analytical Chemistry, 2012, 84, 283-289.	3.2	930
3	The Genetic Map of <i>Artemisia annua</i> L. Identifies Loci Affecting Yield of the Antimalarial Drug Artemisinin. Science, 2010, 327, 328-331.	6.0	325
4	A <i>Papaver somniferum</i> 10-Gene Cluster for Synthesis of the Anticancer Alkaloid Noscapine. Science, 2012, 336, 1704-1708.	6.0	301
5	Identification of the 2-Hydroxyglutarate and Isovaleryl-CoA Dehydrogenases as Alternative Electron Donors Linking Lysine Catabolism to the Electron Transport Chain of <i>Arabidopsis</i> Mitochondria. Plant Cell, 2010, 22, 1549-1563.	3.1	296
6	Metabolic engineering of hydroxy fatty acid production in plants: RcDGAT2 drives dramatic increases in ricinoleate levels in seed oil. Plant Biotechnology Journal, 2008, 6, 819-831.	4.1	292
7	Acyl-Lipid Metabolism. The Arabidopsis Book, 2010, 8, e0133.	0.5	287
8	Control of germination and lipid mobilization by COMATOSE, the Arabidopsis homologue of human ALDP. EMBO Journal, 2002, 21, 2912-2922.	3.5	280
9	Jasmonic Acid Levels Are Reduced in COMATOSE ATP-Binding Cassette Transporter Mutants. Implications for Transport of Jasmonate Precursors into Peroxisomes. Plant Physiology, 2005, 137, 835-840.	2.3	248
10	Reserve Mobilization in the Arabidopsis Endosperm Fuels Hypocotyl Elongation in the Dark, Is Independent of Abscisic Acid, and Requires PHOSPHOENOLPYRUVATE CARBOXYKINASE1. Plant Cell, 2004, 16, 2705-2718.	3.1	246
11	Long chain polyunsaturated fatty acid production and partitioning to triacylglycerols in four microalgae. Phytochemistry, 2002, 61, 15-24.	1.4	239
12	Requirement for 3-ketoacyl-CoA thiolase-2 in peroxisome development, fatty acid β -oxidation and breakdown of triacylglycerol in lipid bodies of Arabidopsis seedlings. Plant Journal, 2001, 28, 1-12.	2.8	233
13	The Critical Role of Arabidopsis Electron-Transfer Flavoprotein:Ubiquinone Oxidoreductase during Dark-Induced Starvation. Plant Cell, 2005, 17, 2587-2600.	3.1	211
14	12-Oxo-Phytodienoic Acid Accumulation during Seed Development Represses Seed Germination in <i>Arabidopsis</i> . Plant Cell, 2011, 23, 583-599.	3.1	207
15	A novel technique for the sensitive quantification of acyl CoA esters from plant tissues. Plant Journal, 2001, 25, 115-125.	2.8	192
16	Toxicity of unsaturated fatty acids to the biohydrogenating ruminal bacterium, <i>Butyrivibrio fibrisolvens</i> . BMC Microbiology, 2010, 10, 52.	1.3	189
17	Sucrose rescues seedling establishment but not germination of Arabidopsis mutants disrupted in peroxisomal fatty acid catabolism. Plant Journal, 2005, 43, 861-872.	2.8	157
18	Detoxification of the explosive 2,4,6-trinitrotoluene in Arabidopsis: discovery of bifunctional <i>O</i> - and <i>C</i> -glucosyltransferases. Plant Journal, 2008, 56, 963-974.	2.8	142

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19	Perturbed cholesterol and vesicular trafficking associated with dengue blocking in Wolbachia-infected <i>Aedes aegypti</i> cells. <i>Nature Communications</i> , 2017, 8, 526.	5.8	139
20	A Cytosolic Acyltransferase Contributes to Triacylglycerol Synthesis in Sucrose-Rescued Arabidopsis Seed Oil Catabolism Mutants. <i>Plant Physiology</i> , 2012, 160, 215-225.	2.3	136
21	Morphinan biosynthesis in opium poppy requires a P450-oxidoreductase fusion protein. <i>Science</i> , 2015, 349, 309-312.	6.0	130
22	The mitochondrial electron transfer flavoprotein complex is essential for survival of Arabidopsis in extended darkness. <i>Plant Journal</i> , 2006, 47, 751-760.	2.8	128
23	Tissue-Specific Whole Transcriptome Sequencing in Castor, Directed at Understanding Triacylglycerol Lipid Biosynthetic Pathways. <i>PLoS ONE</i> , 2012, 7, e30100.	1.1	117
24	The Breakdown of Stored Triacylglycerols Is Required during Light-Induced Stomatal Opening. <i>Current Biology</i> , 2016, 26, 707-712.	1.8	111
25	Plant lipid-associated fibrillin proteins condition jasmonate production under photosynthetic stress. <i>Plant Journal</i> , 2010, 61, 436-445.	2.8	105
26	Arabidopsis Mutants in Short- and Medium-chain Acyl-CoA Oxidase Activities Accumulate Acyl-CoAs and Reveal That Fatty Acid β^2 -Oxidation Is Essential for Embryo Development. <i>Journal of Biological Chemistry</i> , 2003, 278, 21370-21377.	1.6	98
27	Hydrophilic interaction chromatography/electrospray mass spectrometry analysis of carbohydrate-related metabolites from <i>Arabidopsis thaliana</i> leaf tissue. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 1399-1407.	0.7	95
28	Transcriptomic and Reverse Genetic Analyses of Branched-Chain Fatty Acid and Acyl Sugar Production in <i>Solanum pennellii</i> and <i>Nicotiana benthamiana</i> . <i>Plant Physiology</i> , 2008, 148, 1830-1846.	2.3	95
29	The Arabidopsis thaliana multifunctional protein gene (MFP2) of peroxisomal β^2 -oxidation is essential for seedling establishment. <i>Plant Journal</i> , 2006, 45, 930-941.	2.8	92
30	<i>Artemisia annua</i> mutant impaired in artemisinin synthesis demonstrates importance of nonenzymatic conversion in terpenoid metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 15150-15155.	3.3	92
31	Fatty acid desaturases from the microalga <i>Thalassiosira pseudonana</i> . <i>FEBS Journal</i> , 2005, 272, 3401-3412.	2.2	90
32	Potassium deficiency induces the biosynthesis of oxylipins and glucosinolates in Arabidopsis thaliana. <i>BMC Plant Biology</i> , 2010, 10, 172.	1.6	87
33	Rational metabolic engineering of transgenic plants for biosynthesis of omega-3 polyunsaturates. <i>Current Opinion in Biotechnology</i> , 2007, 18, 142-147.	3.3	86
34	Quantification of sugars and sugar phosphates in Arabidopsis thaliana tissues using porous graphitic carbon liquid chromatography-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1172, 170-178.	1.8	85
35	Production of Bioactive Diterpenoids in the Euphorbiaceae Depends on Evolutionarily Conserved Gene Clusters. <i>Plant Cell</i> , 2014, 26, 3286-3298.	3.1	84
36	Novel Insights into Seed Fatty Acid Synthesis and Modification Pathways from Genetic Diversity and Quantitative Trait Loci Analysis of the Brassica C Genome. <i>Plant Physiology</i> , 2007, 144, 1827-1842.	2.3	78

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37	<i>MOTHER-OF-FIT-AND-TFL1</i> represses seed germination under far-red light by modulating phytohormone responses in <i>Arabidopsis thaliana</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8442-8447.	3.3	74
38	Acyl CoA profiles of transgenic plants that accumulate medium-chain fatty acids indicate inefficient storage lipid synthesis in developing oilseeds. Plant Journal, 2002, 32, 519-527.	2.8	73
39	Identification of a very long chain polyunsaturated fatty acid Δ^4 -desaturase from the microalga <i>Pavlova lutheri</i> 1. FEBS Letters, 2003, 553, 440-444.	1.3	73
40	The synthesis and accumulation of stearidonic acid in transgenic plants: a novel source of ω -3 fatty acids. Plant Biotechnology Journal, 2009, 7, 704-716.	4.1	65
41	Reduced expression of FatA thioesterases in <i>Arabidopsis</i> affects the oil content and fatty acid composition of the seeds. Planta, 2012, 235, 629-639.	1.6	55
42	Low-oxygen response is triggered by an ATP-dependent shift in oleoyl-CoA in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12101-E12110.	3.3	55
43	Engineering a Catabolic Pathway in Plants for the Degradation of 1,2-Dichloroethane. Plant Physiology, 2008, 147, 1192-1198.	2.3	50
44	CHANGES IN CELL COMPOSITION AND LIPID METABOLISM MEDIATED BY SODIUM AND NITROGEN AVAILABILITY IN THE MARINE DIATOM PHAEODACTYLUM TRICORNUTUM (BACILLARIOPHYCEAE) 1. Journal of Phycology, 1996, 32, 388-393.	1.0	46
45	Identification of a fatty acid Δ^{11} -desaturase from the microalga <i>Thalassiosira pseudonana</i> 1. FEBS Letters, 2004, 563, 28-34.	1.3	39
46	Analysis of a Range of Catabolic Mutants Provides Evidence That Phytanoyl-Coenzyme A Does Not Act as a Substrate of the Electron-Transfer Flavoprotein/Electron-Transfer Flavoprotein:Ubiquinone Oxidoreductase Complex in <i>Arabidopsis</i> during Dark-Induced Senescence. Plant Physiology, 2011, 157, 55-69.	2.3	39
47	The Coenzyme A Biosynthetic Enzyme Phosphopantetheine Adenylyltransferase Plays a Crucial Role in Plant Growth, Salt/Osmotic Stress Resistance, and Seed Lipid Storage. Plant Physiology, 2008, 148, 546-556.	2.3	38
48	Yield assessment of integumental seed growth following targeted repair of <i>auxin response factor 2</i> . Plant Biotechnology Journal, 2008, 6, 758-769.	4.1	33
49	Detailed Phytochemical Analysis of High- and Low Artemisinin-Producing Chemotypes of <i>Artemisia annua</i> . Frontiers in Plant Science, 2018, 9, 641.	1.7	33
50	An <i>Arabidopsis</i> Mutant Impaired in Coenzyme A Biosynthesis Is Sugar Dependent for Seedling Establishment. Plant Physiology, 2006, 140, 830-843.	2.3	32
51	A survey of artemisinic and dihydroartemisinic acid contents in glasshouse and global field-grown populations of the artemisinin-producing plant <i>Artemisia annua</i> L.. Industrial Crops and Products, 2013, 45, 1-6.	2.5	30
52	No Induction of β -oxidation in leaves of <i>Arabidopsis</i> that over-produce lauric acid. Planta, 1999, 207, 385-392.	1.6	29
53	Targeted mutation of Δ^{12} and Δ^{15} desaturase genes in hemp produce major alterations in seed fatty acid composition including a high oleic hemp oil. Plant Biotechnology Journal, 2014, 12, 613-623.	4.1	29
54	A Cytochrome P450-Mediated Intramolecular Carbon-Carbon Ring Closure in the Biosynthesis of Multidrug-Resistant Reversing Lathyrane Diterpenoids. ChemBioChem, 2016, 17, 1593-1597.	1.3	28

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55	An inhibitor of oil body mobilization in Arabidopsis. <i>New Phytologist</i> , 2013, 200, 641-649.	3.5	25
56	Contrasting nutrient–disease relationships: Potassium gradients in barley leaves have opposite effects on two fungal pathogens with different sensitivities to jasmonic acid. <i>Plant, Cell and Environment</i> , 2018, 41, 2357-2372.	2.8	25
57	Flavonoid Versus Artemisinin Anti-malarial Activity in <i>Artemisia annua</i> Whole-Leaf Extracts. <i>Frontiers in Plant Science</i> , 2019, 10, 984.	1.7	25
58	Technical Advance: A novel technique for the sensitive quantification of acyl CoA esters from plant tissues. <i>Plant Journal</i> , 2001, 25, 115-125.	2.8	24
59	Enhancement of Plant Metabolite Fingerprinting by Machine Learning \hat{A} . <i>Plant Physiology</i> , 2010, 153, 1506-1520.	2.3	24
60	Silencing amorpha-4,11-diene synthase Genes in <i>Artemisia annua</i> Leads to FPP Accumulation. <i>Frontiers in Plant Science</i> , 2018, 9, 547.	1.7	19
61	Pelagic Sargassum events in Jamaica: Provenance, morphotype abundance, and influence of sample processing on biochemical composition of the biomass. <i>Science of the Total Environment</i> , 2022, 817, 152761.	3.9	19
62	Evidence that ACN1 (acetate non-utilizing 1) prevents carbon leakage from peroxisomes during lipid mobilization in <i>Arabidopsis</i> seedlings. <i>Biochemical Journal</i> , 2011, 437, 505-513.	1.7	17
63	Effect of a mutagenized acyl-ACP thioesterase FATA allele from sunflower with improved activity in tobacco leaves and <i>Arabidopsis</i> seeds. <i>Planta</i> , 2014, 239, 667-677.	1.6	16
64	A microbubble-sparged yeast propagation–fermentation process for bioethanol production. <i>Biotechnology for Biofuels</i> , 2020, 13, 104.	6.2	15
65	PRMT7 regulates RNA-binding capacity and protein stability in <i>Leishmania</i> parasites. <i>Nucleic Acids Research</i> , 2020, 48, 5511-5526.	6.5	14
66	Rosiglitazone increases fatty acid $\hat{9}$ -desaturation and decreases elongase activity index in human skeletal muscle in vivo. <i>Metabolism: Clinical and Experimental</i> , 2012, 61, 108-116.	1.5	12
67	cis-12-Oxo-phytodienoic acid represses <i>Arabidopsis</i> seed germination in shade conditions. <i>Journal of Experimental Botany</i> , 2019, 70, 5919-5927.	2.4	11
68	Systems Analyses Reveal the Resilience of <i>Escherichia coli</i> Physiology during Accumulation and Export of the Nonnative Organic Acid Citramalate. <i>MSystems</i> , 2019, 4, .	1.7	9
69	Gene discovery and virus-induced gene silencing reveal branched pathways to major classes of bioactive diterpenoids in <i>Euphorbia peplus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2203890119.	3.3	7
70	A functionally conserved STORR gene fusion in <i>Papaver</i> species that diverged 16.8 million years ago. <i>Nature Communications</i> , 2022, 13, .	5.8	7
71	Multi-omic based production strain improvement (MOBpsi) for bio-manufacturing of toxic chemicals. <i>Metabolic Engineering</i> , 2022, 72, 133-149.	3.6	6
72	Acyl-CoA elongase activity and gene from the marine microalga <i>Pavlova lutheri</i> (Haptophyceae). <i>Journal of Applied Phycology</i> , 2005, 17, 111-118.	1.5	3

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73	Techniques for the Measurement of Molecular Species of Acyl-CoA in Plants and Microalgae. <i>Methods in Molecular Biology</i> , 2021, 2295, 203-218.	0.4	2
74	Engineering Production of a Novel Diterpene Synthase Precursor in <i>Nicotiana benthamiana</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 757186.	1.7	2
75	Futile Cycling Through $\hat{1}^2$ -Oxidation as a Barrier to Increased Yields of Novel Oils. , 2002, , 445-463.		0