John Browse

List of Publications by Year in descending order

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106 papers	14,785 citations	23500 58 h-index	27345 106 g-index
125 all docs	125 docs citations	125 times ranked	11975 citing authors

#	Article	IF	Citations
1	Overexpression mutants reveal a role for a chloroplast MPD protein in regulation of reactive oxygen species during chilling in Arabidopsis. Journal of Experimental Botany, 2022, 73, 2666-2681.	2.4	3
2	A multigene approach secures hydroxy fatty acid production in Arabidopsis. Journal of Experimental Botany, 2022, 73, 2875-2888.	2.4	9
3	Expression of Physaria longchain acyl-CoA synthetases and hydroxy fatty acid accumulation in transgenic Arabidopsis. Journal of Plant Physiology, 2022, 274, 153717.	1.6	0
4	Molecular Approaches Reduce Saturates and Eliminate trans Fats in Food Oils. Frontiers in Plant Science, 2022, 13, .	1.7	4
5	Lipid Isolation from Plants. Methods in Molecular Biology, 2021, 2295, 3-13.	0.4	1
6	Phosphatidylglycerol Composition Is Central to Chilling Damage in the Arabidopsis <i>fab1</i> Mutant. Plant Physiology, 2020, 184, 1717-1730.	2.3	7
7	Castor LPCAT and PDAT1A Act in Concert to Promote Transacylation of Hydroxy-Fatty Acid onto Triacylglycerol. Plant Physiology, 2020, 184, 709-719.	2.3	11
8	The biochemistry of headgroup exchange during triacylglycerol synthesis in canola. Plant Journal, 2020, 103, 83-94.	2.8	18
9	Arabidopsis Flowers Unlocked the Mechanism of Jasmonate Signaling. Plants, 2019, 8, 285.	1.6	26
10	Identification, characterization and field testing of Brassica napus mutants producing highâ€•oleic oils. Plant Journal, 2019, 98, 33-41.	2.8	30
11	Tri-Hydroxy-Triacylglycerol Is Efficiently Produced by Position-Specific Castor Acyltransferases. Plant Physiology, 2019, 179, 1050-1063.	2.3	39
12	Development Defects of Hydroxy-Fatty Acid-Accumulating Seeds Are Reduced by Castor Acyltransferases. Plant Physiology, 2018, 177, 553-564.	2.3	17
13	Overexpression of Seipin1 Increases Oil in Hydroxy Fatty Acid-Accumulating Seeds. Plant and Cell Physiology, 2018, 59, 205-214.	1.5	18
14	Trimethylguanosine Synthase1 (TGS1) Is Essential for Chilling Tolerance. Plant Physiology, 2017, 174, 1713-1727.	2.3	25
15	Expression of Castor LPAT2 Enhances Ricinoleic Acid Content at the sn-2 Position of Triacylglycerols in Lesquerella Seed. International Journal of Molecular Sciences, 2016, 17, 507.	1.8	32
16	Control of Carbon Assimilation and Partitioning by Jasmonate: An Accounting of Growthâ€"Defense Tradeoffs. Plants, 2016, 5, 7.	1.6	96
17	50Âyears of Arabidopsis research: highlights and future directions. New Phytologist, 2016, 209, 921-944.	3.5	186
18	<i>WRINKLED1</i> Rescues Feedback Inhibition of Fatty Acid Synthesis in Hydroxylase-Expressing Seeds. Plant Physiology, 2016, 171, 179-191.	2.3	60

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19	Epidermal jasmonate perception is sufficient for all aspects of jasmonateâ€mediated male fertility in Arabidopsis. Plant Journal, 2016, 85, 634-647.	2.8	44
20	Directed evolution increases desaturation of a cyanobacterial fatty acid desaturase in eukaryotic expression systems. Biotechnology and Bioengineering, 2016, 113, 1522-1530.	1.7	10
21	Identification of Arabidopsis <i>GPAT9</i> (At5g60620) as an Essential Gene Involved in Triacylglycerol Biosynthesis. Plant Physiology, 2016, 170, 163-179.	2.3	150
22	A Caenorhabditis elegans model for ether lipid biosynthesis and function. Journal of Lipid Research, 2016, 57, 265-275.	2.0	49
23	Type 1 diacylglycerol acyltransferases of<i>Brassica napus</i>preferentially incorporate oleic acid into triacylglycerol. Journal of Experimental Botany, 2015, 66, 6497-6506.	2.4	33
24	Male sterility in <scp>A</scp>rabidopsis induced by overexpression of a <scp>MYC</scp>5â€<scp>SRDX</scp> chimeric repressor. Plant Journal, 2015, 81, 849-860.	2.8	84
25	A Small Phospholipase A2-Î± from Castor Catalyzes the Removal of Hydroxy Fatty Acids from Phosphatidylcholine in Transgenic Arabidopsis Seeds Â. Plant Physiology, 2015, 167, 1259-1270.	2.3	50
26	Mutations in the Prokaryotic Pathway Rescue the <i>fatty acid biosynthesis1</i> Mutant in the Cold Â. Plant Physiology, 2015, 169, 442-452.	2.3	22
27	Reducing Isozyme Competition Increases Target Fatty Acid Accumulation in Seed Triacylglycerols of Transgenic Arabidopsis Â. Plant Physiology, 2015, 168, 36-46.	2.3	51
28	Fatty acid synthesis is inhibited by inefficient utilization of unusual fatty acids for glycerolipid assembly. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1204-1209.	3.3	118
29	Reducing saturated fatty acids in <scp>A</scp>rabidopsis seeds by expression of a <i><scp>C</scp>aenorhabditis elegans</i> 16:0â€"specific desaturase. Plant Biotechnology Journal, 2013, 11, 480-489.	4.1	12
30	Rapid separation of developing Arabidopsis seeds from siliques for RNA or metabolite analysis. Plant Methods, 2013, 9, 9.	1.9	15
31	Characterizing Jasmonate Regulation of Male Fertility in Arabidopsis. Methods in Molecular Biology, 2013, 1011, 13-23.	0.4	9
32	Cytochrome b5 Reductase Encoded by<i>CBR1</i>Is Essential for a Functional Male Gametophyte in<i>Arabidopsis</i>Â Â. Plant Cell, 2013, 25, 3052-3066.	3.1	50
33	Homologous electron transport components fail to increase fatty acid hydroxylation in transgenic Arabidopsis thaliana. F1000Research, 2013, 2, 203.	0.8	7
34	Homologous electron transport components fail to increase fatty acid hydroxylation in transgenic Arabidopsis thaliana. F1000Research, 2013, 2, 203.	0.8	6
35	JAZ8 Lacks a Canonical Degron and Has an EAR Motif That Mediates Transcriptional Repression of Jasmonate Responses in <i>Arabidopsis</i>. Plant Cell, 2012, 24, 536-550.	3.1	214
36	Arabidopsis mutants reveal that short- and long-term thermotolerance have different requirements for trienoic fatty acids. Journal of Experimental Botany, 2012, 63, 1435-1443.	2.4	51

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37	Acyl Editing and Headgroup Exchange Are the Major Mechanisms That Direct Polyunsaturated Fatty Acid Flux into Triacylglycerols Â Â. Plant Physiology, 2012, 160, 1530-1539.	2.3	182
38	The Arabidopsis JAZ2 Promoter Contains a G-Box and Thymidine-Rich Module that are Necessary and Sufficient for Jasmonate-Dependent Activation by MYC Transcription Factors and Repression by JAZ Proteins. Plant and Cell Physiology, 2012, 53, 330-343.	1.5	75
39	The Significance of Different Diacylgycerol Synthesis Pathways on Plant Oil Composition and Bioengineering. Frontiers in Plant Science, 2012, 3, 147.	1.7	238
40	Social Network: JAZ Protein Interactions Expand Our Knowledge of Jasmonate Signaling. Frontiers in Plant Science, 2012, 3, 41.	1.7	120
41	The pathway of triacylglycerol synthesis through phosphatidylcholine in Arabidopsis produces a bottleneck for the accumulation of unusual fatty acids in transgenic seeds. Plant Journal, 2011, 68, 387-399.	2.8	180
42	Genomeâ€level and biochemical diversity of the acylâ€activating enzyme superfamily in plants. Plant Journal, 2011, 66, 143-160.	2.8	75
43	Characterization of JAZ-interacting bHLH transcription factors that regulate jasmonate responses in Arabidopsis. Journal of Experimental Botany, 2011, 62, 2143-2154.	2.4	291
44	Castor Phospholipid:Diacylglycerol Acyltransferase Facilitates Efficient Metabolism of Hydroxy Fatty Acids in Transgenic Arabidopsis Â Â. Plant Physiology, 2011, 155, 683-693.	2.3	157
45	Construction of a Full-Length cDNA Library from Castor Endosperm for High-Throughput Functional Screening. Methods in Molecular Biology, 2011, 729, 37-52.	0.4	1
46	Organ fusion and defective cuticle function in a lacs1 lacs2 double mutant of Arabidopsis. Planta, 2010, 231, 1089-1100.	1.6	126
47	Lipid biochemists salute the genome. Plant Journal, 2010, 61, 1092-1106.	2.8	67
48	Jasmonate perception by inositol-phosphate-potentiated COI1â€“JAZ co-receptor. Nature, 2010, 468, 400-405.	13.7	1,192
49	A Mutation in the <i>LPAT1</i> Gene Suppresses the Sensitivity of <i>fab1</i> Plants to Low Temperature. Plant Physiology, 2010, 153, 1135-1143.	2.3	13
50	Saving the Bilayer. Science, 2010, 330, 185-186.	6.0	12
51	MYB108 Acts Together with MYB24 to Regulate Jasmonate-Mediated Stamen Maturation in Arabidopsis. Plant Physiology, 2009, 149, 851-862.	2.3	222
52	An enzyme regulating triacylglycerol composition is encoded by the <i>ROD1</i> gene of <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18837-18842.	3.3	275
53	The power of mutants for investigating jasmonate biosynthesis and signaling. Phytochemistry, 2009, 70, 1539-1546.	1.4	122
54	Top hits in contemporary JAZ: An update on jasmonate signaling. Phytochemistry, 2009, 70, 1547-1559.	1.4	158

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55	Jasmonate Passes Muster: A Receptor and Targets for the Defense Hormone. Annual Review of Plant Biology, 2009, 60, 183-205.	8.6	796
56	Jasmonate: Preventing the Maize Tassel from Getting in Touch with His Feminine Side. Science Signaling, 2009, 2, pe9.	1.6	28
57	A critical role of two positively charged amino acids in the Jas motif of Arabidopsis JAZ proteins in mediating coronatineâ€•and jasmonoyl isoleucineâ€dependent interactions with the COI1 Fâ€box protein. Plant Journal, 2008, 55, 979-988.	2.8	334
58	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
59	The <i>AAE14</i> gene encodes the Arabidopsis <i>o</i>â€succinylbenzoylâ€CoA ligase that is essential for phylloquinone synthesis and photosystemâ€I function. Plant Journal, 2008, 54, 272-283.	2.8	61
60	New Weapons and a Rapid Response against Insect Attack. Plant Physiology, 2008, 146, 832-838.	2.3	210
61	Fatty Acid Desaturation and the Regulation of Adiposity in Caenorhabditis elegans. Genetics, 2007, 176, 865-875.	1.2	184
62	Arabidopsis ESK1 encodes a novel regulator of freezing tolerance. Plant Journal, 2007, 49, 786-799.	2.8	142
63	JAZ repressor proteins are targets of the SCFCOI1 complex during jasmonate signalling. Nature, 2007, 448, 661-665.	13.7	2,055
64	An analysis of expressed sequence tags of developing castor endosperm using a full-length cDNA library. BMC Plant Biology, 2007, 7, 42.	1.6	51
65	A high-throughput screen for genes from castor that boost hydroxy fatty acid accumulation in seed oils of transgenic Arabidopsis. Plant Journal, 2006, 45, 847-856.	2.8	130
66	Transcriptional regulators of stamen development in Arabidopsis identified by transcriptional profiling. Plant Journal, 2006, 46, 984-1008.	2.8	299
67	A mutation in Arabidopsis cytochrome b5 reductase identified by high-throughput screening differentially affects hydroxylation and desaturation. Plant Journal, 2006, 48, 920-932.	2.8	70
68	Altered rates of protein transport in Arabidopsis mutants deficient in chloroplast membrane unsaturation. Phytochemistry, 2006, 67, 1629-1636.	1.4	19
69	A Suppressor of fab1 Challenges Hypotheses on the Role of Thylakoid Unsaturation in Photosynthetic Function. Plant Physiology, 2006, 141, 1012-1020.	2.3	28
70	The role of C. elegans stearoylâ€CoA desaturases in fat storage and energy homeostasis. FASEB Journal, 2006, 20, A523.	0.2	0
71	Identification of a plastid acyl-acyl carrier protein synthetase in Arabidopsis and its role in the activation and elongation of exogenous fatty acids. Plant Journal, 2005, 44, 620-632.	2.8	60
72	Jasmonate: An Oxylipin Signal with Many Roles in Plants. Vitamins and Hormones, 2005, 72, 431-456.	0.7	147

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73	The Acyl-CoA Synthetase Encoded by LACS2 Is Essential for Normal Cuticle Development in Arabidopsis. Plant Cell, 2004, 16, 629-642.	3.1	310
74	Identification of the Arabidopsis Palmitoyl-Monogalactosyldiacylglycerol Î”7-Desaturase Gene FAD5, and Effects of Plastidial Retargeting of Arabidopsis Desaturases on the fad5 Mutant Phenotype. Plant Physiology, 2004, 136, 4237-4245.	2.3	85
75	Counting the cost of a cold-blooded life: Metabolomics of cold acclimation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14996-14997.	3.3	29
76	Peroxisomal Acyl-CoA Synthetase Activity Is Essential for Seedling Development in Arabidopsis thaliana. Plant Cell, 2004, 16, 394-405.	3.1	231
77	Microarray and differential display identify genes involved in jasmonate-dependent anther development. Plant Molecular Biology, 2003, 52, 775-786.	2.0	65
78	Arabidopsis Contains a Large Superfamily of Acyl-Activating Enzymes. Phylogenetic and Biochemical Analysis Reveals a New Class of Acyl-Coenzyme A Synthetases. Plant Physiology, 2003, 132, 1065-1076.	2.3	168
79	Photoinhibition in Mutants of Arabidopsis Deficient in Thylakoid Unsaturation. Plant Physiology, 2002, 129, 876-885.	2.3	73
80	Mutants of Arabidopsis reveal many roles for membrane lipids. Progress in Lipid Research, 2002, 41, 254-278.	5.3	279
81	Polyunsaturated fatty acid synthesis: what will they think of next?. Trends in Biochemical Sciences, 2002, 27, 467-473.	3.7	308
82	A KAS2 cDNA complements the phenotypes of the Arabidopsis fab1 mutant that differs in a single residue bordering the substrate binding pocket. Plant Journal, 2002, 29, 761-770.	2.8	65
83	Production of Polyunsaturated Fatty Acids by Polyketide Synthases in Both Prokaryotes and Eukaryotes. Science, 2001, 293, 290-293.	6.0	647
84	Temperature sensing and cold acclimation. Current Opinion in Plant Biology, 2001, 4, 241-246.	3.5	212
85	Trienoic Fatty Acids Are Required to Maintain Chloroplast Function at Low Temperatures. Plant Physiology, 2000, 124, 1697-1705.	2.3	209
86	Characterization of an acyl-CoA synthetase from Arabidopsis thaliana. Biochemical Society Transactions, 2000, 28, 957-958.	1.6	3
87	Antifungal compounds from idioblast cells isolated from avocado fruits. Phytochemistry, 2000, 54, 183-189.	1.4	70
88	Identification and Characterization of an Animal Î”12 Fatty Acid Desaturase Gene by Heterologous Expression in Saccharomyces cerevisiae. Archives of Biochemistry and Biophysics, 2000, 376, 399-408.	1.4	91
89	A Palmitoyl-CoA-Specific Î”9 Fatty Acid Desaturase from Caenorhabditis elegans. Biochemical and Biophysical Research Communications, 2000, 272, 263-269.	1.0	128
90	Genetic Engineering of Plant Chilling Tolerance. , 1999, 21, 79-93.		14

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91	Polyunsaturated membranes are required for photosynthetic competence in a mutant ofArabidopsis. Plant Journal, 1998, 15, 521-530.	2.8	71
92	A Determinant of Substrate Specificity Predicted from the Acyl-Acyl Carrier Protein Desaturase of Developing Cat's Claw Seed1. Plant Physiology, 1998, 117, 593-598.	2.3	103
93	A New Class of Arabidopsis Mutants with Reduced Hexadecatrienoic Acid Fatty Acid Levels1. Plant Physiology, 1998, 117, 923-930.	2.3	59
94	Novel mutations affecting leaf stearate content and plant size in Arabidopsis. Theoretical and Applied Genetics, 1997, 94, 975-981.	1.8	12
95	Dissecting desaturation: plants prove advantageous. Trends in Cell Biology, 1996, 6, 148-153.	3.6	122
96	The Critical Requirement for Linolenic Acid Is Pollen Development, Not Photosynthesis, in an Arabidopsis Mutant. Plant Cell, 1996, 8, 403.	3.1	167
97	An Octadecanoid Pathway Mutant (JL5) of Tomato Is Compromised in Signaling for Defense against Insect Attack. Plant Cell, 1996, 8, 2067.	3.1	81
98	Elevated Levels of High-Melting-Point Phosphatidylglycerols Do Not Induce Chilling Sensitivity in an Arabidopsis Mutant. Plant Cell, 1995, 7, 17.	3.1	12
99	Lipid Biosynthesis. Plant Cell, 1995, 7, 957.	3.1	407
100	Altered body morphology is caused by increased stearate levels in a mutant of Arabidopsis. Plant Journal, 1994, 6, 401-412.	2.8	60
101	Enhanced Thermal Tolerance in a Mutant of <i>Arabidopsis</i> Deficient in Palmitic Acid Unsaturation. Plant Physiology, 1989, 91, 401-408.	2.3	105
102	A Mutant of <i>Arabidopsis</i> Deficient in Desaturation of Palmitic Acid in Leaf Lipids. Plant Physiology, 1989, 90, 943-947.	2.3	131
103	Altered Chloroplast Structure and Function in a Mutant of <i>Arabidopsis</i> Deficient in Plastid Glycerol-3-Phosphate Acyltransferase Activity. Plant Physiology, 1989, 90, 846-853.	2.3	49
104	Enhanced Thermal Tolerance of Photosynthesis and Altered Chloroplast Ultrastructure in a Mutant of <i>Arabidopsis</i> Deficient in Lipid Desaturation. Plant Physiology, 1989, 90, 1134-1142.	2.3	144
105	A Mutant of <i>Arabidopsis</i> Deficient in the Chloroplast 16:1/18:1 Desaturase. Plant Physiology, 1989, 90, 522-529.	2.3	136
106	A Mutant of <i>Arabidopsis</i> Deficient in C_{18:3} and C_{16:3} Leaf Lipids. Plant Physiology, 1986, 81, 859-864.	2.3	163