

# John Browse

## List of Publications by Year in descending order

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106  
papers

14,785  
citations

23567

58  
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125  
docs citations

125  
times ranked

11975  
citing authors

#	ARTICLE	IF	CITATIONS
1	JAZ repressor proteins are targets of the SCFCO11 complex during jasmonate signalling. <i>Nature</i> , 2007, 448, 661-665.	27.8	2,055
2	Jasmonate perception by inositol-phosphate-potentiated COI1â€“JAZ co-receptor. <i>Nature</i> , 2010, 468, 400-405.	27.8	1,192
3	Jasmonate Passes Muster: A Receptor and Targets for the Defense Hormone. <i>Annual Review of Plant Biology</i> , 2009, 60, 183-205.	18.7	796
4	Production of Polyunsaturated Fatty Acids by Polyketide Synthases in Both Prokaryotes and Eukaryotes. <i>Science</i> , 2001, 293, 290-293.	12.6	647
5	Lipid Biosynthesis. <i>Plant Cell</i> , 1995, 7, 957.	6.6	407
6	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. <i>Plant Journal</i> , 2008, 55, 979-988.	5.7	334
7	The Acyl-CoA Synthetase Encoded by LACS2 Is Essential for Normal Cuticle Development in Arabidopsis. <i>Plant Cell</i> , 2004, 16, 629-642.	6.6	310
8	Polyunsaturated fatty acid synthesis: what will they think of next?. <i>Trends in Biochemical Sciences</i> , 2002, 27, 467-473.	7.5	308
9	Transcriptional regulators of stamen development in Arabidopsis identified by transcriptional profiling. <i>Plant Journal</i> , 2006, 46, 984-1008.	5.7	299
10	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, 819-831.	8.3	292
11	Characterization of JAZ-interacting bHLH transcription factors that regulate jasmonate responses in Arabidopsis. <i>Journal of Experimental Botany</i> , 2011, 62, 2143-2154.	4.8	291
12	Mutants of Arabidopsis reveal many roles for membrane lipids. <i>Progress in Lipid Research</i> , 2002, 41, 254-278.	11.6	279
13	An enzyme regulating triacylglycerol composition is encoded by the <i>ROD1</i> gene of <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18837-18842.	7.1	275
14	The Significance of Different Diacylglycerol Synthesis Pathways on Plant Oil Composition and Bioengineering. <i>Frontiers in Plant Science</i> , 2012, 3, 147.	3.6	238
15	Peroxisomal Acyl-CoA Synthetase Activity Is Essential for Seedling Development in Arabidopsis thaliana. <i>Plant Cell</i> , 2004, 16, 394-405.	6.6	231
16	MYB108 Acts Together with MYB24 to Regulate Jasmonate-Mediated Stamen Maturation in Arabidopsis. <i>Plant Physiology</i> , 2009, 149, 851-862.	4.8	222
17	JAZ8 Lacks a Canonical Degron and Has an EAR Motif That Mediates Transcriptional Repression of Jasmonate Responses in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 536-550.	6.6	214
18	Temperature sensing and cold acclimation. <i>Current Opinion in Plant Biology</i> , 2001, 4, 241-246.	7.1	212

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19	New Weapons and a Rapid Response against Insect Attack. <i>Plant Physiology</i> , 2008, 146, 832-838.	4.8	210
20	Trienoic Fatty Acids Are Required to Maintain Chloroplast Function at Low Temperatures. <i>Plant Physiology</i> , 2000, 124, 1697-1705.	4.8	209
21	50 Years of Arabidopsis research: highlights and future directions. <i>New Phytologist</i> , 2016, 209, 921-944.	7.3	186
22	Fatty Acid Desaturation and the Regulation of Adiposity in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2007, 176, 865-875.	2.9	184
23	Acyl Editing and Headgroup Exchange Are the Major Mechanisms That Direct Polyunsaturated Fatty Acid Flux into Triacylglycerols. <i>Plant Physiology</i> , 2012, 160, 1530-1539.	4.8	182
24	The pathway of triacylglycerol synthesis through phosphatidylcholine in <i>Arabidopsis</i> produces a bottleneck for the accumulation of unusual fatty acids in transgenic seeds. <i>Plant Journal</i> , 2011, 68, 387-399.	5.7	180
25	<i>Arabidopsis</i> Contains a Large Superfamily of Acyl-Activating Enzymes. Phylogenetic and Biochemical Analysis Reveals a New Class of Acyl-Coenzyme A Synthetases. <i>Plant Physiology</i> , 2003, 132, 1065-1076.	4.8	168
26	The Critical Requirement for Linolenic Acid Is Pollen Development, Not Photosynthesis, in an <i>Arabidopsis</i> Mutant. <i>Plant Cell</i> , 1996, 8, 403.	6.6	167
27	A Mutant of <i>Arabidopsis</i> Deficient in C <sub>18:3</sub> and C <sub>16:3</sub> Leaf Lipids. <i>Plant Physiology</i> , 1986, 81, 859-864.	4.8	163
28	Top hits in contemporary JAZ: An update on jasmonate signaling. <i>Phytochemistry</i> , 2009, 70, 1547-1559.	2.9	158
29	Castor Phospholipid:Diacylglycerol Acyltransferase Facilitates Efficient Metabolism of Hydroxy Fatty Acids in Transgenic <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 155, 683-693.	4.8	157
30	Identification of <i>Arabidopsis</i> GPAT9 (At5g60620) as an Essential Gene Involved in Triacylglycerol Biosynthesis. <i>Plant Physiology</i> , 2016, 170, 163-179.	4.8	150
31	Jasmonate: An Oxylinin Signal with Many Roles in Plants. <i>Vitamins and Hormones</i> , 2005, 72, 431-456.	1.7	147
32	Enhanced Thermal Tolerance of Photosynthesis and Altered Chloroplast Ultrastructure in a Mutant of <i>Arabidopsis</i> Deficient in Lipid Desaturation. <i>Plant Physiology</i> , 1989, 90, 1134-1142.	4.8	144
33	<i>Arabidopsis</i> ESK1 encodes a novel regulator of freezing tolerance. <i>Plant Journal</i> , 2007, 49, 786-799.	5.7	142
34	A Mutant of <i>Arabidopsis</i> Deficient in the Chloroplast 16:1/18:1 Desaturase. <i>Plant Physiology</i> , 1989, 90, 522-529.	4.8	136
35	A Mutant of <i>Arabidopsis</i> Deficient in Desaturation of Palmitic Acid in Leaf Lipids. <i>Plant Physiology</i> , 1989, 90, 943-947.	4.8	131
36	A high-throughput screen for genes from castor that boost hydroxy fatty acid accumulation in seed oils of transgenic <i>Arabidopsis</i> . <i>Plant Journal</i> , 2006, 45, 847-856.	5.7	130

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37	A Palmitoyl-CoA-Specific $\Delta^9$ Fatty Acid Desaturase from <i>Caenorhabditis elegans</i> . <i>Biochemical and Biophysical Research Communications</i> , 2000, 272, 263-269.	2.1	128
38	Organ fusion and defective cuticle function in a <i>lacs1 lacs2</i> double mutant of <i>Arabidopsis</i> . <i>Planta</i> , 2010, 231, 1089-1100.	3.2	126
39	Dissecting desaturation: plants prove advantageous. <i>Trends in Cell Biology</i> , 1996, 6, 148-153.	7.9	122
40	The power of mutants for investigating jasmonate biosynthesis and signaling. <i>Phytochemistry</i> , 2009, 70, 1539-1546.	2.9	122
41	Social Network: JAZ Protein Interactions Expand Our Knowledge of Jasmonate Signaling. <i>Frontiers in Plant Science</i> , 2012, 3, 41.	3.6	120
42	Fatty acid synthesis is inhibited by inefficient utilization of unusual fatty acids for glycerolipid assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1204-1209.	7.1	118
43	Enhanced Thermal Tolerance in a Mutant of <i>Arabidopsis</i> Deficient in Palmitic Acid Unsaturation. <i>Plant Physiology</i> , 1989, 91, 401-408.	4.8	105
44	A Determinant of Substrate Specificity Predicted from the Acyl-Acyl Carrier Protein Desaturase of Developing Cat's Claw Seed1. <i>Plant Physiology</i> , 1998, 117, 593-598.	4.8	103
45	Control of Carbon Assimilation and Partitioning by Jasmonate: An Accounting of Growthâ€Defense Tradeoffs. <i>Plants</i> , 2016, 5, 7.	3.5	96
46	Identification and Characterization of an Animal $\Delta^{12}$ Fatty Acid Desaturase Gene by Heterologous Expression in <i>Saccharomyces cerevisiae</i> . <i>Archives of Biochemistry and Biophysics</i> , 2000, 376, 399-408.	3.0	91
47	Identification of the <i>Arabidopsis</i> Palmitoyl-Monogalactosyldiacylglycerol $\Delta^7$ -Desaturase Gene FAD5, and Effects of Plastidial Retargeting of <i>Arabidopsis</i> Desaturases on the <i>fad5</i> Mutant Phenotype. <i>Plant Physiology</i> , 2004, 136, 4237-4245.	4.8	85
48	Male sterility in <i>Arabidopsis</i> induced by overexpression of a <i>MYC5</i> - <i>SRDX</i> chimeric repressor. <i>Plant Journal</i> , 2015, 81, 849-860.	5.7	84
49	An Octadecanoid Pathway Mutant (JL5) of Tomato Is Compromised in Signaling for Defense against Insect Attack. <i>Plant Cell</i> , 1996, 8, 2067.	6.6	81
50	Genomeâ€level and biochemical diversity of the acylâ€activating enzyme superfamily in plants. <i>Plant Journal</i> , 2011, 66, 143-160.	5.7	75
51	The <i>Arabidopsis</i> 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. <i>Plant and Cell Physiology</i> , 2012, 53, 330-343.	3.1	75
52	Photoinhibition in Mutants of <i>Arabidopsis</i> Deficient in Thylakoid Unsaturation. <i>Plant Physiology</i> , 2002, 129, 876-885.	4.8	73
53	Polyunsaturated membranes are required for photosynthetic competence in a mutant of <i>Arabidopsis</i> . <i>Plant Journal</i> , 1998, 15, 521-530.	5.7	71
54	Antifungal compounds from idioblast cells isolated from avocado fruits. <i>Phytochemistry</i> , 2000, 54, 183-189.	2.9	70

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55	A mutation in Arabidopsis cytochrome b5 reductase identified by high-throughput screening differentially affects hydroxylation and desaturation. <i>Plant Journal</i> , 2006, 48, 920-932.	5.7	70
56	Lipid biochemists salute the genome. <i>Plant Journal</i> , 2010, 61, 1092-1106.	5.7	67
57	A KAS2 cDNA complements the phenotypes of the Arabidopsis <i>fab1</i> mutant that differs in a single residue bordering the substrate binding pocket. <i>Plant Journal</i> , 2002, 29, 761-770.	5.7	65
58	Microarray and differential display identify genes involved in jasmonate-dependent anther development. <i>Plant Molecular Biology</i> , 2003, 52, 775-786.	3.9	65
59	The <i>AAE14</i> gene encodes the Arabidopsis $\epsilon$ -succinylbenzoyl-CoA ligase that is essential for phylloquinone synthesis and photosystem function. <i>Plant Journal</i> , 2008, 54, 272-283.	5.7	61
60	Altered body morphology is caused by increased stearate levels in a mutant of Arabidopsis. <i>Plant Journal</i> , 1994, 6, 401-412.	5.7	60
61	Identification of a plastid acyl-acyl carrier protein synthetase in Arabidopsis and its role in the activation and elongation of exogenous fatty acids. <i>Plant Journal</i> , 2005, 44, 620-632.	5.7	60
62	<i>WRINKLED1</i> Rescues Feedback Inhibition of Fatty Acid Synthesis in Hydroxylase-Expressing Seeds. <i>Plant Physiology</i> , 2016, 171, 179-191.	4.8	60
63	A New Class of Arabidopsis Mutants with Reduced Hexadecatrienoic Acid Fatty Acid Levels1. <i>Plant Physiology</i> , 1998, 117, 923-930.	4.8	59
64	An analysis of expressed sequence tags of developing castor endosperm using a full-length cDNA library. <i>BMC Plant Biology</i> , 2007, 7, 42.	3.6	51
65	Arabidopsis mutants reveal that short- and long-term thermotolerance have different requirements for trienoic fatty acids. <i>Journal of Experimental Botany</i> , 2012, 63, 1435-1443.	4.8	51
66	Reducing Isozyme Competition Increases Target Fatty Acid Accumulation in Seed Triacylglycerols of Transgenic Arabidopsis. <i>Plant Physiology</i> , 2015, 168, 36-46.	4.8	51
67	Cytochrome b5 Reductase Encoded by <i>CBR1</i> Is Essential for a Functional Male Gametophyte in Arabidopsis. <i>Plant Cell</i> , 2013, 25, 3052-3066.	6.6	50
68	A Small Phospholipase A2- $\hat{1}$ from Castor Catalyzes the Removal of Hydroxy Fatty Acids from Phosphatidylcholine in Transgenic Arabidopsis Seeds. <i>Plant Physiology</i> , 2015, 167, 1259-1270.	4.8	50
69	Altered Chloroplast Structure and Function in a Mutant of Arabidopsis Deficient in Plastid Glycerol-3-Phosphate Acyltransferase Activity. <i>Plant Physiology</i> , 1989, 90, 846-853.	4.8	49
70	A <i>Caenorhabditis elegans</i> model for ether lipid biosynthesis and function. <i>Journal of Lipid Research</i> , 2016, 57, 265-275.	4.2	49
71	Epidermal jasmonate perception is sufficient for all aspects of jasmonate-mediated male fertility in Arabidopsis. <i>Plant Journal</i> , 2016, 85, 634-647.	5.7	44
72	Tri-Hydroxy-Triacylglycerol Is Efficiently Produced by Position-Specific Castor Acyltransferases. <i>Plant Physiology</i> , 2019, 179, 1050-1063.	4.8	39

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73	Type 1 diacylglycerol acyltransferases of <i>Brassica napus</i> preferentially incorporate oleic acid into triacylglycerol. <i>Journal of Experimental Botany</i> , 2015, 66, 6497-6506.	4.8	33
74	Expression of Castor LPAT2 Enhances Ricinoleic Acid Content at the sn-2 Position of Triacylglycerols in <i>Lesquerella</i> Seed. <i>International Journal of Molecular Sciences</i> , 2016, 17, 507.	4.1	32
75	Identification, characterization and field testing of <i>Brassica napus</i> mutants producing high oleic oils. <i>Plant Journal</i> , 2019, 98, 33-41.	5.7	30
76	Counting the cost of a cold-blooded life: Metabolomics of cold acclimation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14996-14997.	7.1	29
77	A Suppressor of <i>fab1</i> Challenges Hypotheses on the Role of Thylakoid Unsaturation in Photosynthetic Function. <i>Plant Physiology</i> , 2006, 141, 1012-1020.	4.8	28
78	Jasmonate: Preventing the Maize Tassel from Getting in Touch with His Feminine Side. <i>Science Signaling</i> , 2009, 2, pe9.	3.6	28
79	<i>Arabidopsis</i> Flowers Unlocked the Mechanism of Jasmonate Signaling. <i>Plants</i> , 2019, 8, 285.	3.5	26
80	Trimethylguanosine Synthase1 (TGS1) Is Essential for Chilling Tolerance. <i>Plant Physiology</i> , 2017, 174, 1713-1727.	4.8	25
81	Mutations in the Prokaryotic Pathway Rescue the <i>fab1</i> Mutant in the Cold <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2015, 169, 442-452.	4.8	22
82	Altered rates of protein transport in <i>Arabidopsis</i> mutants deficient in chloroplast membrane unsaturation. <i>Phytochemistry</i> , 2006, 67, 1629-1636.	2.9	19
83	Overexpression of <i>Seipin1</i> Increases Oil in Hydroxy Fatty Acid-Accumulating Seeds. <i>Plant and Cell Physiology</i> , 2018, 59, 205-214.	3.1	18
84	The biochemistry of headgroup exchange during triacylglycerol synthesis in canola. <i>Plant Journal</i> , 2020, 103, 83-94.	5.7	18
85	Development Defects of Hydroxy-Fatty Acid-Accumulating Seeds Are Reduced by Castor Acyltransferases. <i>Plant Physiology</i> , 2018, 177, 553-564.	4.8	17
86	Rapid separation of developing <i>Arabidopsis</i> seeds from siliques for RNA or metabolite analysis. <i>Plant Methods</i> , 2013, 9, 9.	4.3	15
87	Genetic Engineering of Plant Chilling Tolerance. <i>Plant Physiology</i> , 1999, 21, 79-93.		14
88	A Mutation in the <i>LPAT1</i> Gene Suppresses the Sensitivity of <i>fab1</i> Plants to Low Temperature. <i>Plant Physiology</i> , 2010, 153, 1135-1143.	4.8	13
89	Elevated Levels of High-Melting-Point Phosphatidylglycerols Do Not Induce Chilling Sensitivity in an <i>Arabidopsis</i> Mutant. <i>Plant Cell</i> , 1995, 7, 17.	6.6	12
90	Novel mutations affecting leaf stearate content and plant size in <i>Arabidopsis</i> . <i>Theoretical and Applied Genetics</i> , 1997, 94, 975-981.	3.6	12

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91	Saving the Bilayer. <i>Science</i> , 2010, 330, 185-186.	12.6	12
92	Reducing saturated fatty acids in <i>Arabidopsis</i> seeds by expression of a <i>C. elegans</i> 16:0-specific desaturase. <i>Plant Biotechnology Journal</i> , 2013, 11, 480-489.	8.3	12
93	Castor LPCAT and PDAT1A Act in Concert to Promote Transacylation of Hydroxy-Fatty Acid onto Triacylglycerol. <i>Plant Physiology</i> , 2020, 184, 709-719.	4.8	11
94	Directed evolution increases desaturation of a cyanobacterial fatty acid desaturase in eukaryotic expression systems. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1522-1530.	3.3	10
95	Characterizing Jasmonate Regulation of Male Fertility in <i>Arabidopsis</i> . <i>Methods in Molecular Biology</i> , 2013, 1011, 13-23.	0.9	9
96	A multigene approach secures hydroxy fatty acid production in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 2875-2888.	4.8	9
97	Phosphatidylglycerol Composition Is Central to Chilling Damage in the <i>Arabidopsis fab1</i> Mutant. <i>Plant Physiology</i> , 2020, 184, 1717-1730.	4.8	7
98	Homologous electron transport components fail to increase fatty acid hydroxylation in transgenic <i>Arabidopsis thaliana</i> . <i>F1000Research</i> , 2013, 2, 203.	1.6	7
99	Homologous electron transport components fail to increase fatty acid hydroxylation in transgenic <i>Arabidopsis thaliana</i> . <i>F1000Research</i> , 2013, 2, 203.	1.6	6
100	Molecular Approaches Reduce Saturates and Eliminate trans Fats in Food Oils. <i>Frontiers in Plant Science</i> , 2022, 13, .	3.6	4
101	Characterization of an acyl-CoA synthetase from <i>Arabidopsis thaliana</i> . <i>Biochemical Society Transactions</i> , 2000, 28, 957-958.	3.4	3
102	Overexpression mutants reveal a role for a chloroplast MPD protein in regulation of reactive oxygen species during chilling in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 2666-2681.	4.8	3
103	Lipid Isolation from Plants. <i>Methods in Molecular Biology</i> , 2021, 2295, 3-13.	0.9	1
104	Construction of a Full-Length cDNA Library from Castor Endosperm for High-Throughput Functional Screening. <i>Methods in Molecular Biology</i> , 2011, 729, 37-52.	0.9	1
105	The role of <i>C. elegans</i> stearoyl-CoA desaturases in fat storage and energy homeostasis. <i>FASEB Journal</i> , 2006, 20, A523.	0.5	0
106	Expression of Physaria longchain acyl-CoA synthetases and hydroxy fatty acid accumulation in transgenic <i>Arabidopsis</i> . <i>Journal of Plant Physiology</i> , 2022, 274, 153717.	3.5	0