

Christopher R Somerville

List of Publications by Year in Descending Order

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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.

219
papers

43,345
citations

113
h-index

208
g-index

258
ext. papers

47,213
ext. citations

11.7
avg, IF

7.72
L-index

#	Paper	IF	Citations
219	TRANVIA (TVA) facilitates cellulose synthase trafficking and delivery to the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
218	Implementing industrial-academic partnerships to advance bioenergy research: the Energy Biosciences Institute. <i>Current Opinion in Biotechnology</i> , 2017 , 45, 184-190	11.4	4
217	The transcription factor PDR-1 is a multi-functional regulator and key component of pectin deconstruction and catabolism in. <i>Biotechnology for Biofuels</i> , 2017 , 10, 149	7.8	15
216	BRASSINOSTEROID INSENSITIVE2 negatively regulates cellulose synthesis in by phosphorylating cellulose synthase 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3533-3538	11.5	57
215	O-Glycan analysis of cellobiohydrolase I from <i>Neurospora crassa</i> . <i>Glycobiology</i> , 2016 , 26, 670-7	5.8	3
214	A Genetic Screen for Mutations Affecting Cell Division in the <i>Arabidopsis thaliana</i> Embryo Identifies Seven Loci Required for Cytokinesis. <i>PLoS ONE</i> , 2016 , 11, e0146492	3.7	14
213	Anisotropic Cell Expansion Is Affected through the Bidirectional Mobility of Cellulose Synthase Complexes and Phosphorylation at Two Critical Residues on CESA3. <i>Plant Physiology</i> , 2016 , 171, 242-50	6.6	37
212	Cellulose Deficiency Is Enhanced on Hyper Accumulation of Sucrose by a H ⁺ -Coupled Sucrose Symporter. <i>Plant Physiology</i> , 2016 , 171, 110-24	6.6	29
211	50 years of <i>Arabidopsis</i> research: highlights and future directions. <i>New Phytologist</i> , 2016 , 209, 921-44	9.8	128
210	A dual mechanism of cellulose deficiency in <i>shv3svl1</i> . <i>Plant Signaling and Behavior</i> , 2016 , 11, e1218108	2.5	2
209	Next generation biofuels 2015 ,		4
208	Identification of MEDIATOR16 as the <i>Arabidopsis</i> COBRA suppressor MONGOOSE1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 16048-53	11.5	21
207	Identification and characterization of a galacturonic acid transporter from <i>Neurospora crassa</i> and its application for <i>Saccharomyces cerevisiae</i> fermentation processes. <i>Biotechnology for Biofuels</i> , 2014 , 7, 20	7.8	44
206	POLYGALACTURONASE INVOLVED IN EXPANSION1 functions in cell elongation and flower development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014 , 26, 1018-35	11.6	105
205	Plant science. Best practices for biofuels. <i>Science</i> , 2014 , 344, 1095-6	33.3	37
204	A Blueprint for Cellulose Biosynthesis, Deposition, and Regulation in Plants 2014 , 65-95		0
203	A comparative systems analysis of polysaccharide-elicited responses in <i>Neurospora crassa</i> reveals carbon source-specific cellular adaptations. <i>Molecular Microbiology</i> , 2014 , 91, 275-99	4.1	70

202	How big is the bioenergy piece of the energy pie? Who cares--it's pie!. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 1717-8	4.9	5
201	The Arabidopsis COBRA protein facilitates cellulose crystallization at the plasma membrane. <i>Journal of Biological Chemistry</i> , 2014 , 289, 34911-20	5.4	24
200	The Implications of Lignocellulosic Biomass Chemical Composition for the Production of Advanced Biofuels. <i>BioScience</i> , 2014 , 64, 192-201	5.7	87
199	Chitinase-like1/pom-pom1 and its homolog CTL2 are glucan-interacting proteins important for cellulose biosynthesis in Arabidopsis. <i>Plant Cell</i> , 2012 , 24, 589-607	11.6	118
198	Deciphering the Parts List for the Mechanical Plant. <i>Daedalus</i> , 2012 , 141, 89-97	2	
197	Cellulose microfibril crystallinity is reduced by mutating C-terminal transmembrane region residues CESA1A903V and CESA3T942I of cellulose synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4098-103	11.5	130
196	Cellulose synthase interactive protein 1 (CSI1) links microtubules and cellulose synthase complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 185-90	11.5	212
195	Complexes with mixed primary and secondary cellulose synthases are functional in Arabidopsis plants. <i>Plant Physiology</i> , 2012 , 160, 726-37	6.6	74
194	Metabolic click-labeling with a fucose analog reveals pectin delivery, architecture, and dynamics in Arabidopsis cell walls. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 1329-34	11.5	116
193	Development of feedstocks for cellulosic biofuels. <i>F1000 Biology Reports</i> , 2012 , 4, 10		35
192	O-glycosylated cell wall proteins are essential in root hair growth. <i>Science</i> , 2011 , 332, 1401-3	33.3	220
191	Identification of a cellulose synthase-associated protein required for cellulose biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12866-71	11.5	178
190	Mutations of cellulose synthase (CESA1) phosphorylation sites modulate anisotropic cell expansion and bidirectional mobility of cellulose synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17188-93	11.5	117
189	Cellulose synthase interacting protein: a new factor in cellulose synthesis. <i>Plant Signaling and Behavior</i> , 2010 , 5, 1571-4	2.5	32
188	Real-time imaging of cellulose reorientation during cell wall expansion in Arabidopsis roots. <i>Plant Physiology</i> , 2010 , 152, 787-96	6.6	297
187	Shootward and rootward: peak terminology for plant polarity. <i>Trends in Plant Science</i> , 2010 , 15, 593-4	13.1	35
186	Feedstocks for lignocellulosic biofuels. <i>Science</i> , 2010 , 329, 790-2	33.3	929
185	Mutations in UDP-Glucose:sterol glucosyltransferase in Arabidopsis cause transparent testa phenotype and suberization defect in seeds. <i>Plant Physiology</i> , 2009 , 151, 78-87	6.6	113

184	Response--Biofuels. <i>Science</i> , 2009 , 326, 1346-1346	33.3	2
183	Discovery of lignin in seaweed reveals convergent evolution of cell-wall architecture. <i>Current Biology</i> , 2009 , 19, 169-75	6.3	288
182	Cellulosic biofuels. <i>Annual Review of Plant Biology</i> , 2009 , 60, 165-82	30.7	601
181	Energy. Beneficial biofuels--the food, energy, and environment trilemma. <i>Science</i> , 2009 , 325, 270-1	33.3	1166
180	The GRV2/RME-8 protein of Arabidopsis functions in the late endocytic pathway and is required for vacuolar membrane flow. <i>Plant Journal</i> , 2008 , 53, 29-41	6.9	65
179	Prefoldin 6 is required for normal microtubule dynamics and organization in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18064-9	11.5	46
178	Genetic evidence that cellulose synthase activity influences microtubule cortical array organization. <i>Plant Physiology</i> , 2008 , 147, 1723-34	6.6	128
177	Biofuels. <i>Current Biology</i> , 2007 , 17, R115-9	6.3	140
176	The Arabidopsis irregular xylem8 mutant is deficient in glucuronoxylan and homogalacturonan, which are essential for secondary cell wall integrity. <i>Plant Cell</i> , 2007 , 19, 237-55	11.6	219
175	The Cellulose Synthase Superfamily 2007 , 35-48		1
174	A conserved role for kinesin-5 in plant mitosis. <i>Journal of Cell Science</i> , 2007 , 120, 2819-27	5.3	73
173	Genetic evidence for three unique components in primary cell-wall cellulose synthase complexes in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15566-71	11.5	403
172	Nonmotile cellulose synthase subunits repeatedly accumulate within localized regions at the plasma membrane in Arabidopsis hypocotyl cells following 2,6-dichlorobenzonitrile treatment. <i>Plant Physiology</i> , 2007 , 145, 334-8	6.6	89
171	Plant neurobiology: no brain, no gain?. <i>Trends in Plant Science</i> , 2007 , 12, 135-6	13.1	118
170	Transcriptional coordination of the metabolic network in Arabidopsis. <i>Plant Physiology</i> , 2006 , 142, 762-766	6.6	163
169	Characterization of synthetic hydroxyproline-rich proteoglycans with arabinogalactan protein and extensin motifs in Arabidopsis. <i>Plant Physiology</i> , 2006 , 142, 458-70	6.6	78
168	Cellulose synthesis in higher plants. <i>Annual Review of Cell and Developmental Biology</i> , 2006 , 22, 53-78	12.6	734
167	Development and application of a suite of polysaccharide-degrading enzymes for analyzing plant cell walls. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11417-22	11.5	259

166	Visualization of cellulose synthase demonstrates functional association with microtubules. <i>Science</i> , 2006 , 312, 1491-5	33.3	966
165	FLAsH-based live-cell fluorescent imaging of synthetic peptides expressed in Arabidopsis and tobacco. <i>BioTechniques</i> , 2006 , 41, 569-70, 572-4	2.5	21
164	Cloning, expression, and characterization of an oligoxyloglucan reducing end-specific xyloglucanobiohydrolase from <i>Aspergillus nidulans</i> . <i>Carbohydrate Research</i> , 2005 , 340, 2590-7	2.9	55
163	Imaging plant cell death: GFP-Nit1 aggregation marks an early step of wound and herbicide induced cell death. <i>BMC Plant Biology</i> , 2005 , 5, 4	5.3	33
162	Glycosylphosphatidylinositol-anchored proteins are required for cell wall synthesis and morphogenesis in Arabidopsis. <i>Plant Cell</i> , 2005 , 17, 1128-40	11.6	115
161	Identification of genes required for cellulose synthesis by regression analysis of public microarray data sets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8633-8	11.5	479
160	The Arabidopsis sku6/spiral1 gene encodes a plus end-localized microtubule-interacting protein involved in directional cell expansion. <i>Plant Cell</i> , 2004 , 16, 1506-20	11.6	141
159	The gravitropism defective 2 mutants of Arabidopsis are deficient in a protein implicated in endocytosis in <i>Caenorhabditis elegans</i> . <i>Plant Physiology</i> , 2004 , 136, 3095-103; discussion 3002	6.6	67
158	The PEN1 syntaxin defines a novel cellular compartment upon fungal attack and is required for the timely assembly of papillae. <i>Molecular Biology of the Cell</i> , 2004 , 15, 5118-29	3.5	303
157	Mutations in PMR5 result in powdery mildew resistance and altered cell wall composition. <i>Plant Journal</i> , 2004 , 40, 968-78	6.9	207
156	Regulation of membrane fatty acid composition by temperature in mutants of Arabidopsis with alterations in membrane lipid composition. <i>BMC Plant Biology</i> , 2004 , 4, 17	5.3	193
155	Global expression analysis of CESA and CSL genes in Arabidopsis. <i>Cellulose</i> , 2004 , 11, 279-286	5.5	63
154	Stomatal development and pattern controlled by a MAPKK kinase. <i>Science</i> , 2004 , 304, 1494-7	33.3	417
153	The role of plant cell wall polysaccharide composition in disease resistance. <i>Trends in Plant Science</i> , 2004 , 9, 203-9	13.1	369
152	Toward a systems approach to understanding plant cell walls. <i>Science</i> , 2004 , 306, 2206-11	33.3	931
151	A MAPKK kinase gene regulates extra-embryonic cell fate in Arabidopsis. <i>Cell</i> , 2004 , 116, 109-19	56.2	315
150	Microspore separation in the quartet 3 mutants of Arabidopsis is impaired by a defect in a developmentally regulated polygalacturonase required for pollen mother cell wall degradation. <i>Plant Physiology</i> , 2003 , 133, 1170-80	6.6	165
149	An Arabidopsis mutant resistant to thaxtomin A, a cellulose synthesis inhibitor from <i>Streptomyces</i> species. <i>Plant Cell</i> , 2003 , 15, 1781-94	11.6	151

148	A fortunate choice: the history of Arabidopsis as a model plant. <i>Nature Reviews Genetics</i> , 2002 , 3, 883-9	30.1	171
147	Cellularisation in the endosperm of Arabidopsis thaliana is coupled to mitosis and shares multiple components with cytokinesis. <i>Development (Cambridge)</i> , 2002 , 129, 5567-76	6.6	90
146	Alpha-glucosidase I is required for cellulose biosynthesis and morphogenesis in Arabidopsis. <i>Journal of Cell Biology</i> , 2002 , 156, 1003-13	7.3	155
145	Cytokinesis-defective mutants of Arabidopsis. <i>Plant Physiology</i> , 2002 , 129, 678-90	6.6	68
144	The Arabidopsis SKU5 gene encodes an extracellular glycosyl phosphatidylinositol-anchored glycoprotein involved in directional root growth. <i>Plant Cell</i> , 2002 , 14, 1635-48	11.6	159
143	Identification and characterization of the Arabidopsis PHO1 gene involved in phosphate loading to the xylem. <i>Plant Cell</i> , 2002 , 14, 889-902	11.6	386
142	Integrative approaches to determining Csl function 2001 , 47, 131-143		93
141	Progress in plant metabolic engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 8925-7	11.5	39
140	An early Arabidopsis demonstration. Resolving a few issues concerning photorespiration. <i>Plant Physiology</i> , 2001 , 125, 20-4	6.6	126
139	Modifications of cellulose synthase confer resistance to isoxaben and thiazolidinone herbicides in Arabidopsis lxr1 mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 10079-84	11.5	332
138	Plants as factories for technical materials. <i>Plant Physiology</i> , 2001 , 125, 168-71	6.6	48
137	The Arabidopsis Information Resource (TAIR): a comprehensive database and web-based information retrieval, analysis, and visualization system for a model plant. <i>Nucleic Acids Research</i> , 2001 , 29, 102-5	20.1	382
136	VACUOLELESS1 is an essential gene required for vacuole formation and morphogenesis in Arabidopsis. <i>Developmental Cell</i> , 2001 , 1, 303-10	10.2	158
135	Arabidopsis Genetics and Functional Genomics in the Post-genome Era 2001 , 563-592		1
134	Integrative approaches to determining Csl function 2001 , 131-143		15
133	Analysis of the genome sequence of the flowering plant Arabidopsis thaliana. <i>Nature</i> , 2000 , 408, 796-815	30.4	7262
132	The cellulose synthase superfamily. <i>Plant Physiology</i> , 2000 , 124, 495-8	6.6	445
131	The genetically modified organism conflict. <i>Plant Physiology</i> , 2000 , 123, 1201-2	6.6	9

130	Random GFP::cDNA fusions enable visualization of subcellular structures in cells of Arabidopsis at a high frequency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 3718-23	11.5	785
129	The twentieth century trajectory of plant biology. <i>Cell</i> , 2000 , 100, 13-25	56.2	26
128	Genomics. Plant biology in 2010. <i>Science</i> , 2000 , 290, 2077-8	33.3	96
127	The irregular xylem3 Locus of Arabidopsis Encodes a Cellulose Synthase Required for Secondary Cell Wall Synthesis. <i>Plant Cell</i> , 1999 , 11, 769	11.6	12
126	PICKLE is a CHD3 chromatin-remodeling factor that regulates the transition from embryonic to vegetative development in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 13839-44	11.5	431
125	The irregular xylem3 locus of Arabidopsis encodes a cellulose synthase required for secondary cell wall synthesis. <i>Plant Cell</i> , 1999 , 11, 769-80	11.6	425
124	Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana. <i>Nature</i> , 1999 , 402, 761-8	50.4	619
123	Genetic engineering of plant lipids. <i>Annual Review of Nutrition</i> , 1999 , 19, 197-216	9.9	116
122	A bifunctional oleate 12-hydroxylase: desaturase from <i>Lesquerella fendleri</i> . <i>Plant Journal</i> , 1998 , 13, 201-10	14.0	148
121	Tetrad pollen formation in quartet mutants of Arabidopsis thaliana is associated with persistence of pectic polysaccharides of the pollen mother cell wall. <i>Plant Journal</i> , 1998 , 15, 79-88	6.9	152
120	Catalytic plasticity of fatty acid modification enzymes underlying chemical diversity of plant lipids. <i>Science</i> , 1998 , 282, 1315-7	33.3	202
119	Collapsed Xylem Phenotype of Arabidopsis Identifies Mutants Deficient in Cellulose Deposition in the Secondary Cell Wall. <i>Plant Cell</i> , 1997 , 9, 689	11.6	70
118	Isolation of mutants of <i>Acinetobacter calcoaceticus</i> deficient in wax ester synthesis and complementation of one mutation with a gene encoding a fatty acyl coenzyme A reductase. <i>Journal of Bacteriology</i> , 1997 , 179, 2969-75	3.5	160
117	Accumulation of ricinoleic, lesquerolic, and densipolic acids in seeds of transgenic Arabidopsis plants that express a fatty acyl hydroxylase cDNA from castor bean. <i>Plant Physiology</i> , 1997 , 113, 933-42	6.6	193
116	Cellular differentiation regulated by gibberellin in the Arabidopsis thaliana pickle mutant. <i>Science</i> , 1997 , 277, 91-4	33.3	295
115	Suspensor-derived polyembryony caused by altered expression of valyl-tRNA synthetase in the twn2 mutant of Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 7349-55	11.5	96
114	Plant biology in the post-Gutenberg era. Everything you wanted to know and more on the World Wide Web. <i>Plant Physiology</i> , 1997 , 113, 1015-22	6.6	4
113	Cloning in silico. <i>Current Biology</i> , 1997 , 7, R108-11	6.3	56

112	Mutants of <i>Arabidopsis thaliana</i> with altered cell wall polysaccharide composition. <i>Plant Journal</i> , 1997 , 12, 335-45	6.9	232
111	<i>Arabidopsis</i> at 7: Still Growing like a Weed. <i>Plant Cell</i> , 1996 , 8, 1917	11.6	1
110	The physical map of an <i>Arabidopsis</i> chromosome. <i>Trends in Plant Science</i> , 1996 , 1, 2	13.1	4
109	Ferulate-5-hydroxylase from <i>Arabidopsis thaliana</i> defines a new family of cytochrome P450-dependent monooxygenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 6869-74	11.5	171
108	Dissecting desaturation: plants prove advantageous. <i>Trends in Cell Biology</i> , 1996 , 6, 148-53	18.3	109
107	The construction of <i>Arabidopsis</i> expressed sequence tag assemblies. A new resource to facilitate gene identification. <i>Plant Physiology</i> , 1996 , 112, 1177-83	6.6	79
106	Plant polymers for biodegradable plastics: Cellulose, starch and polyhydroxyalkanoates. <i>Molecular Breeding</i> , 1995 , 1, 105-122	3.4	53
105	A chilling-sensitive mutant of <i>Arabidopsis</i> is deficient in chloroplast protein accumulation at low temperature*. <i>Plant, Cell and Environment</i> , 1995 , 18, 23-32	8.4	20
104	Production of polyhydroxyalkanoates, a family of biodegradable plastics and elastomers, in bacteria and plants. <i>Nature Biotechnology</i> , 1995 , 13, 142-50	44.5	266
103	Chilling-sensitive mutants of <i>Arabidopsis</i> . <i>Plant Molecular Biology Reporter</i> , 1995 , 13, 11-17	1.7	23
102	Flat-Surface grafting in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology Reporter</i> , 1995 , 13, 118-123	1.7	25
101	Expressed Sequence Tags from Developing Castor Seeds. <i>Plant Physiology</i> , 1995 , 108, 1141-1150	6.6	46
100	Synthesis of high-molecular-weight poly([R]-(-)-3-hydroxybutyrate) in transgenic <i>Arabidopsis thaliana</i> plant cells. <i>International Journal of Biological Macromolecules</i> , 1995 , 17, 7-12	7.9	52
99	An oleate 12-hydroxylase from <i>Ricinus communis</i> L. is a fatty acyl desaturase homolog. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 6743-7	11.5	313
98	Phenotypic Suppression of the Gibberellin-Insensitive Mutant (<i>gai</i>) of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 1995 , 108, 495-502	6.6	115
97	Direct tests of the role of membrane lipid composition in low-temperature-induced photoinhibition and chilling sensitivity in plants and cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 6215-8	11.5	116
96	Plasmid omega-3 fatty acid desaturase cDNA from <i>Ricinus communis</i> . <i>Plant Physiology</i> , 1994 , 105, 443-4	6.6	22
95	A Mutation at the <i>fad8</i> Locus of <i>Arabidopsis</i> Identifies a Second Chloroplast [omega]-3 Desaturase. <i>Plant Physiology</i> , 1994 , 106, 1609-1614	6.6	137

94	Identification of a gene that complements an Arabidopsis mutant deficient in chloroplast omega 6 desaturase activity. <i>Plant Physiology</i> , 1994 , 106, 1453-9	6.6	84
93	Genes galore: a summary of methods for accessing results from large-scale partial sequencing of anonymous Arabidopsis cDNA clones. <i>Plant Physiology</i> , 1994 , 106, 1241-55	6.6	606
92	Tissue-specific expression of a gene encoding a cell wall-localized lipid transfer protein from Arabidopsis. <i>Plant Physiology</i> , 1994 , 105, 35-45	6.6	237
91	Use of transgenic plants and mutants to study the regulation and function of lipid composition. <i>Plant, Cell and Environment</i> , 1994 , 17, 627-637	8.4	40
90	Cloning of a temperature-regulated gene encoding a chloroplast omega-3 desaturase from Arabidopsis thaliana. <i>Plant Physiology</i> , 1994 , 106, 1615-21	6.6	247
89	Targeting of the polyhydroxybutyrate biosynthetic pathway to the plastids of Arabidopsis thaliana results in high levels of polymer accumulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 12760-4	11.5	276
88	Altered growth and cell walls in a fucose-deficient mutant of Arabidopsis. <i>Science</i> , 1993 , 261, 1032-5	33.3	256
87	Stearoyl-acyl carrier protein delta 9 desaturase from Ricinus communis is a diiron-oxo protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 2486-90	11.5	226
86	The sulfolipid sulfoquinovosyldiacylglycerol is not required for photosynthetic electron transport in Rhodospirillum rubrum but enhances growth under phosphate limitation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 1561-5	11.5	154
85	Progress toward biologically produced Biodegradable Thermoplastics. <i>Advanced Materials</i> , 1993 , 5, 30-37	3.4	23
84	Genetic engineering of commercially useful biosynthetic pathways in transgenic plants. <i>Current Opinion in Biotechnology</i> , 1993 , 4, 152-8	11.4	30
83	A non-specific lipid transfer protein from Arabidopsis is a cell wall protein. <i>Plant Journal</i> , 1993 , 3, 427-366	9	161
82	Isolating plant genes. <i>Trends in Biotechnology</i> , 1993 , 11, 306-13	15.1	35
81	Mutations at the Arabidopsis CHM Locus Promote Rearrangements of the Mitochondrial Genome. <i>Plant Cell</i> , 1992 , 4, 889	11.6	1
80	Primary Structure of Cytochrome b(5) from Cauliflower (Brassica oleracea L.) Deduced from Peptide and cDNA Sequences. <i>Plant Physiology</i> , 1992 , 99, 1254-7	6.6	20
79	Mutations at the Arabidopsis CHM locus promote rearrangements of the mitochondrial genome. <i>Plant Cell</i> , 1992 , 4, 889-99	11.6	128
78	Gibberellin Is Required for Flowering in Arabidopsis thaliana under Short Days. <i>Plant Physiology</i> , 1992 , 100, 403-8	6.6	489
77	An Arabidopsis mutant defective in the general phenylpropanoid pathway. <i>Plant Cell</i> , 1992 , 4, 1413-24	11.6	380

76	Map-based cloning of a gene controlling omega-3 fatty acid desaturation in Arabidopsis. <i>Science</i> , 1992 , 258, 1353-5	33.3	400
75	Nucleotide sequence of acyl-acyl carrier protein: glycerol-3-phosphate acyltransferase from cucumber. <i>Plant Physiology</i> , 1992 , 99, 771-2	6.6	19
74	Isolation and genetic complementation of a sulfolipid-deficient mutant of <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 1992 , 174, 2352-60	3.5	102
73	Polyhydroxybutyrate, a biodegradable thermoplastic, produced in transgenic plants. <i>Science</i> , 1992 , 256, 520-3	33.3	343
72	Preliminary crystallographic data for stearoyl-acyl carrier protein desaturase from castor seed. <i>Journal of Molecular Biology</i> , 1992 , 225, 561-4	6.5	21
71	Identification of an operon involved in sulfolipid biosynthesis in <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 1992 , 174, 6479-87	3.5	64
70	Perspectives on the production of polyhydroxyalkanoates in plants. <i>FEMS Microbiology Letters</i> , 1992 , 103, 237-246	2.9	45
69	A role for membrane lipid polyunsaturation in chloroplast biogenesis at low temperature. <i>Plant Physiology</i> , 1992 , 99, 197-202	6.6	128
68	Chromosome Walking in the Region of Arabidopsis fadD Locus Using Yeast Artificial Chromosomes 1992 , 55-58		
67	Sequence of a Complementary DNA from <i>Cucumis sativus</i> L. Encoding the Stearoyl-Acyl-Carrier Protein Desaturase. <i>Plant Physiology</i> , 1991 , 97, 467-8	6.6	18
66	Linkage Relationships of Mutations that Affect Fatty Acid Composition in Arabidopsis. <i>Journal of Heredity</i> , 1991 , 82, 484-488	2.4	11
65	Construction and characterization of a yeast artificial chromosome library of Arabidopsis which is suitable for chromosome walking. <i>Molecular Genetics and Genomics</i> , 1991 , 226, 484-90		113
64	Isolation of a cDNA Clone for Spinach Lipid Transfer Protein and Evidence that the Protein Is Synthesized by the Secretory Pathway. <i>Plant Physiology</i> , 1991 , 95, 164-70	6.6	121
63	Mutants of Arabidopsis with altered regulation of starch degradation. <i>Plant Physiology</i> , 1991 , 95, 1181-86.6		187
62	Prospects for genetic modification of the composition of edible oils from higher plants. <i>Food Biotechnology</i> , 1991 , 5, 217-228	2.2	5
61	Mutant of Arabidopsis deficient in xylem loading of phosphate. <i>Plant Physiology</i> , 1991 , 97, 1087-93	6.6	366
60	Stearoyl-acyl-carrier-protein desaturase from higher plants is structurally unrelated to the animal and fungal homologs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 2510-4	11.5	273
59	The role of cytochrome b5 in delta 12 desaturation of oleic acid by microsomes of safflower (<i>Carthamus tinctorius</i> L.). <i>Archives of Biochemistry and Biophysics</i> , 1991 , 284, 431-6	4.1	68

58	The genetics of plant lipids. <i>Lipids and Lipid Metabolism</i> , 1991 , 1082, 1-26		137
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