# **Thomas David Sharkey**

# 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.

238 150 23,410 79 h-index g-index citations papers 6.2 25,916 251 7.15 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
238	Intramolecular carbon isotope signals reflect metabolite allocation in plants <i>Journal of Experimental Botany</i> , <b>2022</b> ,	7	2
237	Reimport of carbon from cytosolic and vacuolar sugar pools into the Calvin-Benson cycle explains photosynthesis labeling anomalies <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2121531119	11.5	4
236	Compartment-specific energy requirements of photosynthetic carbon metabolism in Camelina sativa leaves <i>Planta</i> , <b>2022</b> , 255, 103	4.7	2
235	Isoprene enhances leaf cytokinin metabolism and induces early senescence. New Phytologist, 2021,	9.8	3
234	The roles of photorespiration and alternative electron acceptors in the responses of photosynthesis to elevated temperatures in cowpea. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 2290-2307	8.4	6
233	A reporting format for leaf-level gas exchange data and metadata. <i>Ecological Informatics</i> , <b>2021</b> , 61, 101	2.3.2	11
232	Plant heat stress: Concepts directing future research. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 1992-2005	8.4	28
231	Contrasting anther glucose-6-phosphate dehydrogenase activities between two bean varieties suggest an important role in reproductive heat tolerance. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 2185-2	18 <del>9</del>	8
230	Evolution of a biochemical model of steady-state photosynthesis. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 2811-2837	8.4	2
229	Pentose Phosphate Pathway Reactions in Photosynthesizing Cells. Cells, 2021, 10,	7.9	5
228	Phosphorus requirement for biomass accumulation is higher compared to photosynthetic biochemistry for three ornamental shrubs. <i>Scientia Horticulturae</i> , <b>2021</b> , 275, 109719	4.1	4
227	Leaf isoprene emission as a trait that mediates the growth-defense tradeoff in the face of climate stress. <i>Oecologia</i> , <b>2021</b> , 197, 885-902	2.9	16
226	Validation of an insertion-engineered isoprene synthase as a strategy to functionalize terpene synthases <i>RSC Advances</i> , <b>2021</b> , 11, 29997-30005	3.7	1
225	The metabolic origins of non-photorespiratory CO2 release during photosynthesis: a metabolic flux analysis. <i>Plant Physiology</i> , <b>2021</b> , 186, 297-314	6.6	19
224	The triose phosphate utilization limitation of photosynthetic rate: Out of global models but important for leaf models. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 3223-3226	8.4	1
223	Photosynthesis   Photosynthetic Carbon Dioxide Fixation <b>2021</b> , 399-412		
222	Phosphoglucoisomerase Is an Important Regulatory Enzyme in Partitioning Carbon out of the Calvin-Benson Cycle. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 580726	6.2	2

## (2019-2020)

221	The reduction in leaf area precedes that in photosynthesis under potassium deficiency: the importance of leaf anatomy. <i>New Phytologist</i> , <b>2020</b> , 227, 1749-1763	9.8	17
220	Insect herbivory antagonizes leaf cooling responses to elevated temperature in tomato.  Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2211-2217	11.5	25
219	Source of 12C in Calvin-Benson cycle intermediates and isoprene emitted from plant leaves fed with 13CO2. <i>Biochemical Journal</i> , <b>2020</b> , 477, 3237-3252	3.8	13
218	Emerging research in plant photosynthesis. Emerging Topics in Life Sciences, 2020, 4, 137-150	3.5	5
217	Building a better equation for electron transport estimated from Chl fluorescence: accounting for nonphotosynthetic light absorption. <i>New Phytologist</i> , <b>2020</b> , 225, 604-608	9.8	2
216	SUT1.1 is a high affinity sucrose-proton co-transporter. <i>Plant Direct</i> , <b>2020</b> , 4, e00260	3.3	2
215	Plastidic glucose-6-phosphate dehydrogenases are regulated to maintain activity in the light. <i>Biochemical Journal</i> , <b>2019</b> , 476, 1539-1551	3.8	26
214	Pollen development at high temperature and role of carbon and nitrogen metabolites. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 2759-2775	8.4	25
213	Elevated temperatures cause loss of seed set in common bean (Phaseolus vulgaris L.) potentially through the disruption of source-sink relationships. <i>BMC Genomics</i> , <b>2019</b> , 20, 312	4.5	21
212	A Cytosolic Bypass and G6P Shunt in Plants Lacking Peroxisomal Hydroxypyruvate Reductase. <i>Plant Physiology</i> , <b>2019</b> , 180, 783-792	6.6	30
211	Triose phosphate utilization and beyond: from photosynthesis to end product synthesis. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 1755-1766	7	30
210	Isoprene Acts as a Signaling Molecule in Gene Networks Important for Stress Responses and Plant Growth. <i>Plant Physiology</i> , <b>2019</b> , 180, 124-152	6.6	43
209	Transcriptional Regulation of the Glucose-6-Phosphate/Phosphate Translocator 2 Is Related to Carbon Exchange Across the Chloroplast Envelope. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 827	6.2	18
208	Isoprene: New insights into the control of emission and mediation of stress tolerance by gene expression. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 2808-2826	8.4	27
207	Is triose phosphate utilization important for understanding photosynthesis?. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 5521-5525	7	13
206	Isoprene Suppression by CO2 Is Not Due to Triose Phosphate Utilization (TPU) Limitation. <i>Frontiers in Forests and Global Change</i> , <b>2019</b> , 2,	3.7	4
205	Prospects for enhancing leaf photosynthetic capacity by manipulating mesophyll cell morphology. Journal of Experimental Botany, <b>2019</b> , 70, 1153-1165	7	39
204	Discovery of the canonical Calvin-Benson cycle. <i>Photosynthesis Research</i> , <b>2019</b> , 140, 235-252	3.7	30

203	Molecular Mechanisms Affecting Cell Wall Properties and Leaf Architecture. <i>Advances in Photosynthesis and Respiration</i> , <b>2018</b> , 209-253	1.7	6
202	Triose phosphate limitation in photosynthesis models reduces leaf photosynthesis and global terrestrial carbon storage. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 074025	6.2	47
201	Isoprene research - 60Dyears later, the biology is still enigmatic. <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 1671-1678	8.4	56
200	In situ emission of BVOCs by three urban woody species. <i>Urban Forestry and Urban Greening</i> , <b>2017</b> , 21, 153-157	5.4	8
199	A dichotomy resolved: Plant growth can control the rate of starch accumulation. <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 2606-2607	8.4	1
198	Rewiring of jasmonate and phytochrome B signalling uncouples plant growth-defense tradeoffs. <i>Nature Communications</i> , <b>2016</b> , 7, 12570	17.4	205
197	Triose phosphate use limitation of photosynthesis: short-term and long-term effects. <i>Planta</i> , <b>2016</b> , 243, 687-98	4.7	42
196	Hartmut Lichtenthaler: an authority on chloroplast structure and isoprenoid biochemistry. <i>Photosynthesis Research</i> , <b>2016</b> , 128, 117-23	3.7	2
195	Engineering of Recombinant Poplar Deoxy-D-Xylulose-5-Phosphate Synthase (PtDXS) by Site-Directed Mutagenesis Improves Its Activity. <i>PLoS ONE</i> , <b>2016</b> , 11, e0161534	3.7	8
194	Exogenous isoprene modulates gene expression in unstressed Arabidopsis thaliana plants. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 1251-63	8.4	36
193	What gas exchange data can tell us about photosynthesis. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 1161-3	8.4	98
192	Pectin Methylesterification Impacts the Relationship between Photosynthesis and Plant Growth. <i>Plant Physiology</i> , <b>2016</b> , 171, 833-48	6.6	19
191	The glucose 6-phosphate shunt around the Calvin-Benson cycle. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 4067-77	7	61
190	Effects of heat and drought stress on post-illumination bursts of volatile organic compounds in isoprene-emitting and non-emitting poplar. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 1204-15	8.4	26
189	Older Thinopyrum intermedium (Poaceae) plants exhibit superior photosynthetic tolerance to cold stress and greater increases in two photosynthetic enzymes under freezing stress compared with young plants. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 4743-53	7	12
188	Facing the Future: Effects of Short-Term Climate Extremes on Isoprene-Emitting and Nonemitting Poplar. <i>Plant Physiology</i> , <b>2015</b> , 169, 560-75	6.6	28
187	The arc mutants of Arabidopsis with fewer large chloroplasts have a lower mesophyll conductance. <i>Photosynthesis Research</i> , <b>2015</b> , 124, 117-26	3.7	19
186	Understanding carbon partitioning and its role in determining plant growth. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 1963-4	8.4	11

### (2012-2015)

185	Concentration of isoprene in artificial and thylakoid membranes. <i>Journal of Bioenergetics and Biomembranes</i> , <b>2015</b> , 47, 419-29	3.7	30
184	Photosynthesis and Carbon Assimilation. <i>Assa, Cssa and Sssa</i> , <b>2015</b> , 187-210	0.3	3
183	Feedback Effects on Photosynthesis Induced by Assay and Growth at High Carbon Dioxide. <i>Assa, Cssa and Sssa,</i> <b>2015</b> , 461-466	0.3	3
182	The relationship between leaf area growth and biomass accumulation in Arabidopsis thaliana. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 167	6.2	135
181	Isopentenyl Diphosphate Inhibition of Thiamin Diphosphate Enzymes, Especially Deoxyxylulose 5-Phosphate Synthase. <i>FASEB Journal</i> , <b>2015</b> , 29, 887.20	0.9	1
180	The future of isoprene emission from leaves, canopies and landscapes. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 1727-40	8.4	52
179	Methylerythritol 4-phosphate (MEP) pathway metabolic regulation. <i>Natural Product Reports</i> , <b>2014</b> , 31, 1043-55	15.1	140
178	Evolution of the Phosphoenolpyruvate Carboxylase Protein Kinase Family in C3 and C4 Flaveria spp. <i>Plant Physiology</i> , <b>2014</b> , 165, 1076-1091	6.6	18
177	Measuring dimethylallyl diphosphate available for isoprene synthesis. <i>Analytical Biochemistry</i> , <b>2013</b> , 435, 27-34	3.1	34
176	Isoprene synthase genes form a monophyletic clade of acyclic terpene synthases in the TPS-B terpene synthase family. <i>Evolution; International Journal of Organic Evolution</i> , <b>2013</b> , 67, 1026-40	3.8	64
175	Is it useful to ask why plants emit isoprene?. Plant, Cell and Environment, 2013, 36, 517-20	8.4	30
174	Metabolic profiling of the methylerythritol phosphate pathway reveals the source of post-illumination isoprene burst from leaves. <i>Plant, Cell and Environment</i> , <b>2013</b> , 36, 429-37	8.4	67
173	Isopentenyl diphosphate and dimethylallyl diphosphate/isopentenyl diphosphate ratio measured with recombinant isopentenyl diphosphate isomerase and isoprene synthase. <i>Analytical Biochemistry</i> , <b>2013</b> , 440, 130-6	3.1	31
172	Feedback inhibition of deoxy-D-xylulose-5-phosphate synthase regulates the methylerythritol 4-phosphate pathway. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 16926-16936	5.4	122
171	Life history and resource acquisition: Photosynthetic traits in selected accessions of three perennial cereal species compared with annual wheat and rye. <i>American Journal of Botany</i> , <b>2013</b> , 100, 2468-77	2.7	9
170	Molecular and Pathway Controls on Biogenic Volatile Organic Compound Emissions. <i>Tree Physiology</i> , <b>2013</b> , 119-151		25
169	Feedback inhibition of 1-deoxy-D-xylulose 5-phosphate synthase (DXS) regulates the 2-C-methyl-D-erythritol 4- phosphate (MEP) pathway. <i>FASEB Journal</i> , <b>2013</b> , 27, lb119	0.9	
168	Engineering starch accumulation by manipulation of phosphate metabolism of starch. <i>Plant Biotechnology Journal</i> , <b>2012</b> , 10, 545-54	11.6	46

167	The metabolic and biochemical impact of glucose 6-sulfonate (sulfoquinovose), a dietary sugar, on carbohydrate metabolism. <i>Carbohydrate Research</i> , <b>2012</b> , 362, 21-9	2.9	9
166	Autotrophic Carbon Dioxide Fixation. Advances in Photosynthesis and Respiration, 2012, 651-674	1.7	5
165	Characterization of photosynthesis in Arabidopsis ER-to-plastid lipid trafficking mutants. <i>Photosynthesis Research</i> , <b>2012</b> , 112, 49-61	3.7	12
164	Stabilization of thylakoid membranes in isoprene-emitting plants reduces formation of reactive oxygen species. <i>Plant Signaling and Behavior</i> , <b>2012</b> , 7, 139-41	2.5	7 <sup>2</sup>
163	The role of transitory starch in C(3), CAM, and C(4) metabolism and opportunities for engineering leaf starch accumulation. <i>Journal of Experimental Botany</i> , <b>2011</b> , 62, 3109-18	7	71
162	The effects of moderately high temperature on zeaxanthin accumulation and decay. <i>Photosynthesis Research</i> , <b>2011</b> , 108, 171-81	3.7	15
161	Effect of temperature on postillumination isoprene emission in oak and poplar. <i>Plant Physiology</i> , <b>2011</b> , 155, 1037-46	6.6	53
160	Biochemical characterization and homology modeling of methylbutenol synthase and implications for understanding hemiterpene synthase evolution in plants. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 20582-90	5.4	43
159	Increased thermostability of thylakoid membranes in isoprene-emitting leaves probed with three biophysical techniques. <i>Plant Physiology</i> , <b>2011</b> , 157, 905-16	6.6	128
158	High temperature effects on electron and proton circuits of photosynthesis. <i>Journal of Integrative Plant Biology</i> , <b>2010</b> , 52, 712-22	8.3	116
157	Moderate heat stress of Arabidopsis thaliana leaves causes chloroplast swelling and plastoglobule formation. <i>Photosynthesis Research</i> , <b>2010</b> , 105, 123-34	3.7	60
156	Differential response of aspen and birch trees to heat stress under elevated carbon dioxide. <i>Environmental Pollution</i> , <b>2010</b> , 158, 1008-14	9.3	36
155	Journal of Experimental Botany. Preface. Journal of Experimental Botany, 2009, 60, 2215-6	7	10
154	Photosynthetic electron transport and proton flux under moderate heat stress. <i>Photosynthesis Research</i> , <b>2009</b> , 100, 29-43	3.7	127
153	Regulation of isoprene emission from poplar leaves throughout a day. <i>Plant, Cell and Environment</i> , <b>2009</b> , 32, 939-47	8.4	60
152	Moderate heat stress reduces the pH component of the transthylakoid proton motive force in light-adapted, intact tobacco leaves. <i>Plant, Cell and Environment</i> , <b>2009</b> , 32, 1538-47	8.4	57
151	Isoprene emission rates under elevated CO2 and O3 in two field-grown aspen clones differing in their sensitivity to O3. <i>New Phytologist</i> , <b>2008</b> , 179, 55-61	9.8	75
150	Molecular cloning and characterization of two cDNAs encoding 1-deoxy-D-xylulose 5-phosphate reductoisomerase from Hevea brasiliensis. <i>Journal of Plant Physiology</i> , <b>2008</b> , 165, 991-1002	3.6	33

### (2005-2008)

149	Isolation and characterization of two distinct classes of DXS genes in Hevea brasiliensis. <i>DNA Sequence</i> , <b>2008</b> , 19, 291-300		6
148	Domain characterization of a 4-alpha-glucanotransferase essential for maltose metabolism in photosynthetic leaves. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 20797-804	5.4	32
147	Isoprene Emission and Carbon Dioxide Protect Aspen Leaves from Heat Stress. <i>Nature Precedings</i> , <b>2008</b> ,		1
146	Regulation of isoprene emission in Populus trichocarpa leaves subjected to changing growth temperature. <i>Plant, Cell and Environment</i> , <b>2008</b> , 31, 258-67	8.4	38
145	Isoprene emission from plants: why and how. <i>Annals of Botany</i> , <b>2008</b> , 101, 5-18	4.1	414
144	Isoprene synthase expression and protein levels are reduced under elevated O3 but not under elevated CO2 (FACE) in field-grown aspen trees. <i>Plant, Cell and Environment</i> , <b>2007</b> , 30, 654-61	8.4	71
143	Rapid heating of intact leaves reveals initial effects of stromal oxidation on photosynthesis. <i>Plant, Cell and Environment,</i> <b>2007</b> , 30, 671-8	8.4	23
142	Fitting photosynthetic carbon dioxide response curves for C(3) leaves. <i>Plant, Cell and Environment</i> , <b>2007</b> , 30, 1035-40	8.4	883
141	The role of cytosolic alpha-glucan phosphorylase in maltose metabolism and the comparison of amylomaltase in Arabidopsis and Escherichia coli. <i>Plant Physiology</i> , <b>2006</b> , 142, 878-89	6.6	60
140	Carbon balance and circadian regulation of hydrolytic and phosphorolytic breakdown of transitory starch. <i>Plant Physiology</i> , <b>2006</b> , 141, 879-86	6.6	88
139	HIGH TEMPERATURE STRESS <b>2006</b> , 101-129		35
138	Plant volatiles: a lack of function or a lack of knowledge?. <i>Trends in Plant Science</i> , <b>2006</b> , 11, 421; author reply 422-3	13.1	39
137	High temperature enhances inhibitor production but reduces fallover in tobacco Rubisco. <i>Functional Plant Biology</i> , <b>2006</b> , 33, 921-929	2.7	20
136	Carbon-based End Products of Artificial Photosynthesis <b>2006</b> , 283-289		
135	The importance of maltose in transitory starch breakdown. <i>Plant, Cell and Environment</i> , <b>2006</b> , 29, 353-6	5 <b>6</b> 8.4	90
134	Cellular and organ level localization of maltose in maltose-excess Arabidopsis mutants. <i>Planta</i> , <b>2006</b> , 224, 935-43	4.7	31
133	Evolution of the isoprene biosynthetic pathway in kudzu. <i>Plant Physiology</i> , <b>2005</b> , 137, 700-12	6.6	159
132	Effects of moderate heat stress on photosynthesis: importance of thylakoid reactions, rubisco deactivation, reactive oxygen species, and thermotolerance provided by isoprene. <i>Plant, Cell and Environment</i> , <b>2005</b> , 28, 269-277	8.4	411

131	Development of the capacity for isoprene emission in kudzu. <i>Plant, Cell and Environment</i> , <b>2005</b> , 28, 898	-930.5	85
130	Antisense inhibition of sorbitol synthesis leads to up-regulation of starch synthesis without altering CO2 assimilation in apple leaves. <i>Planta</i> , <b>2005</b> , 220, 767-76	4.7	63
129	beta-Maltose is the metabolically active anomer of maltose during transitory starch degradation. <i>Plant Physiology</i> , <b>2005</b> , 137, 756-61	6.6	62
128	Daylength and circadian effects on starch degradation and maltose metabolism. <i>Plant Physiology</i> , <b>2005</b> , 138, 2280-91	6.6	214
127	Rapid regulation of the methylerythritol 4-phosphate pathway during isoprene synthesis. <i>Plant Physiology</i> , <b>2004</b> , 135, 1939-45	6.6	69
126	Chloroplast to Leaf. <i>Ecological Studies</i> , <b>2004</b> , 171-206	1.1	5
125	Thylakoid membrane responses to moderately high leaf temperature in Pima cotton. <i>Plant, Cell and Environment</i> , <b>2004</b> , 27, 725-735	8.4	216
124	Electron transport is the functional limitation of photosynthesis in field-grown Pima cotton plants at high temperature. <i>Plant, Cell and Environment</i> , <b>2004</b> , 27, 717-724	8.4	338
123	Engineering plants for elevated CO(2): a relationship between starch degradation and sugar sensing. <i>Plant Biology</i> , <b>2004</b> , 6, 280-8	3.7	55
122	Diffusive and metabolic limitations to photosynthesis under drought and salinity in C(3) plants. <i>Plant Biology</i> , <b>2004</b> , 6, 269-79	3.7	890
121	The role of amylomaltase in maltose metabolism in the cytosol of photosynthetic cells. <i>Planta</i> , <b>2004</b> , 218, 466-73	4.7	147
120	Maltose is the major form of carbon exported from the chloroplast at night. <i>Planta</i> , <b>2004</b> , 218, 474-82	4.7	188
119	Biochemical regulation of isoprene emission. <i>Plant, Cell and Environment</i> , <b>2003</b> , 26, 1357-1364	8.4	45
118	Promoter strength and tissue specificity effects on growth of tomato plants transformed with maize sucrose-phosphate synthase. <i>Planta</i> , <b>2001</b> , 212, 817-22	4.7	39
117	Effect of growth conditions on isoprene emission and other thermotolerance-enhancing compounds. <i>Plant, Cell and Environment</i> , <b>2001</b> , 24, 929-936	8.4	36
116	Rate of acclimation of the capacity for isoprene emission in response to light and temperature. <i>Plant, Cell and Environment</i> , <b>2001</b> , 24, 937-946	8.4	51
115	Increased heat sensitivity of photosynthesis in tobacco plants with reduced Rubisco activase. <i>Photosynthesis Research</i> , <b>2001</b> , 67, 147-56	3.7	75
114	Isoprene increases thermotolerance of fosmidomycin-fed leaves. <i>Plant Physiology</i> , <b>2001</b> , 125, 2001-6	6.6	198

113	ISOPRENE EMISSION FROM PLANTS. Annual Review of Plant Biology, <b>2001</b> , 52, 407-436		427
112	Photorespiration 2001,		2
111	The effects of high temperature on isoprene synthesis in oak leaves. <i>Plant, Cell and Environment</i> , <b>2000</b> , 23, 751-757	8.4	88
110	Will increased photosynthetic efficiency lead to increased yield in rice?. <i>Studies in Plant Science</i> , <b>2000</b> , 7, 73-86		7
109	Biogenic Hydrocarbons in the Atmospheric Boundary Layer: A Review. <i>Bulletin of the American Meteorological Society</i> , <b>2000</b> , 81, 1537-1575	6.1	462
108	Perspectives: plant biology. Some like it hot. <i>Science</i> , <b>2000</b> , 287, 435, 437	33.3	29
107	Atmospheric Chemistry and Hydrocarbon Emissions from Plants <b>1999</b> , 9, 1107-1108		1
106	Limitation to Photosynthesis in Pratylenchus penetrans- and Verticillium dahliae-Infected Potato. <i>Crop Science</i> , <b>1999</b> , 39, 1340-1346	2.4	27
105	Evolutionary significance of isopreneemission from mosses. <i>American Journal of Botany</i> , <b>1999</b> , 86, 634-6	5 <b>3</b> 97	81
104	Kinetics of leaf temperature fluctuation affect isoprene emission from red oak (Quercus rubra) leaves. <i>Tree Physiology</i> , <b>1999</b> , 19, 917-924	4.2	88
103	Intramolecular deuterium distributions reveal disequilibrium of chloroplast phosphoglucose isomerase. <i>Plant, Cell and Environment</i> , <b>1999</b> , 22, 525-533	8.4	62
102	WEATHER EFFECTS ON ISOPRENE EMISSION CAPACITY AND APPLICATIONS IN EMISSIONS ALGORITHMS <b>1999</b> , 9, 1132-1137		115
101	WEATHER EFFECTS ON ISOPRENE EMISSION CAPACITY AND APPLICATIONS IN EMISSIONS ALGORITHMS <b>1999</b> , 9, 1132		1
100	The regulation of isoprene emission responses to rapid leaf temperature fluctuations. <i>Plant, Cell and Environment</i> , <b>1998</b> , 21, 1181-1188	8.4	105
99	Export of carbon from chloroplasts at night. <i>Plant Physiology</i> , <b>1998</b> , 118, 1439-45	6.6	92
98	The small, methionine-rich chloroplast heat-shock protein protects photosystem II electron transport during heat stress. <i>Plant Physiology</i> , <b>1998</b> , 116, 439-444	6.6	252
97	High Temperature Inhibition of Photosynthesis Requires Rubisco Activase for Reversibility <b>1998</b> , 2465-2	2468	2
96	Biogenic isoprene emission: Model evaluation in a southeastern United States bottomland deciduous forest. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 18889-18901		48

95	Isoprene Increases Thermotolerance of Isoprene-Emitting Species. <i>Plant Physiology</i> , <b>1997</b> , 115, 1413-1	4 <b>260</b> 6	260
94	The BEMA-project North American perspective. Atmospheric Environment, 1997, 31, 251-255	5.3	4
93	Activation and deactivation of ribulose-1,5-bisphosphate carboxylase/oxygenase (Rubisco) in three marine microalgae. <i>Photosynthesis Research</i> , <b>1997</b> , 51, 93-106	3.7	36
92	Sucrose-phosphate synthase activity and yield analysis of tomato plants transformed with maize sucrose-phosphate synthase. <i>Planta</i> , <b>1997</b> , 203, 253-259	4.7	53
91	Emission of low molecular mass hydrocarbons from plants. <i>Trends in Plant Science</i> , <b>1996</b> , 1, 78-82	13.1	43
90	Modification of a Specific Class of Plasmodesmata and Loss of Sucrose Export Ability in the sucrose export defective1 Maize Mutant. <i>Plant Cell</i> , <b>1996</b> , 8, 645	11.6	40
89	Different sources of reduced carbon contribute to form three classes of terpenoid emitted by Quercus ilex L. leaves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 9966-9	11.5	100
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1	Supply and consumption of glucose 6-phosphate in the chloroplast stroma		2