

# Graham D Farquhar

## 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.

286 papers	50,229 citations	104 h-index	222 g-index
294 ext. papers	55,136 ext. citations	7.1 avg, IF	7.61 L-index

#	Paper	IF	Citations
286	Cuticular conductance of adaxial and abaxial leaf surfaces and its relation to minimum leaf surface conductance. <i>New Phytologist</i> , <b>2022</b> , 233, 156-168	9.8	4
285	Early-growth results within a Eucalyptus globulus breeding population suggest limited scope for selection focused on CO <sub>2</sub> responsiveness. <i>Tree Genetics and Genomes</i> , <b>2022</b> , 18, 1	2.1	
284	Rubisco catalytic adaptation is mostly driven by photosynthetic conditions - Not by phylogenetic constraints. <i>Journal of Plant Physiology</i> , <b>2021</b> , 267, 153554	3.6	1
283	An improved theory for calculating leaf gas exchange more precisely accounting for small fluxes. <i>Nature Plants</i> , <b>2021</b> , 7, 317-326	11.5	7
282	The effects on isotopic composition of leaf water and transpiration of adding a gas-exchange cuvette. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 2844-2857	8.4	1
281	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO <sub>2</sub> . <i>New Phytologist</i> , <b>2021</b> , 229, 2413-2445	9.8	94
280	Can hydraulic design explain patterns of leaf water isotopic enrichment in C <sub>3</sub> plants?. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 432-444	8.4	3
279	Dynamics of moisture diffusion and adsorption in plant cuticles including the role of cellulose. <i>Nature Communications</i> , <b>2021</b> , 12, 5042	17.4	1
278	Revisiting carbon isotope discrimination in C <sub>3</sub> plants shows respiration rules when photosynthesis is low. <i>Nature Plants</i> , <b>2020</b> , 6, 245-258	11.5	33
277	Directional change in leaf dry matter $\delta^{13}\text{C}$ during leaf development is widespread in C <sub>3</sub> plants. <i>Annals of Botany</i> , <b>2020</b> , 126, 981-990	4.1	7
276	Ralph Owen Slatyer 1929-2012. <i>Historical Records of Australian Science</i> , <b>2020</b> , 31, 54	0.2	0
275	Higher than expected CO <sub>2</sub> fertilization inferred from leaf to global observations. <i>Global Change Biology</i> , <b>2020</b> , 26, 2390	11.4	43
274	Genetic variation for leaf carbon isotope discrimination and its association with transpiration efficiency in canola (Brassica napus). <i>Functional Plant Biology</i> , <b>2020</b> , 47, 355-367	2.7	1
273	Genetic and physiological bases for variation in water use efficiency in canola. <i>Food and Energy Security</i> , <b>2020</b> , 9, e237	4.1	3
272	Ribulose 1,5-bisphosphate carboxylase/oxygenase activates O <sub>2</sub> by electron transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 24234-24242	11.5	10
271	Optimization can provide the fundamental link between leaf photosynthesis, gas exchange and water relations. <i>Nature Plants</i> , <b>2020</b> , 6, 1116-1125	11.5	17
270	Stomatal conductance responses to evaporative demand conferred by rice drought-yield quantitative trait locus qDTY. <i>Functional Plant Biology</i> , <b>2019</b> , 46, 660-669	2.7	7

269	A leaf-level biochemical model simulating the introduction of C and C photosynthesis in C rice: gains, losses and metabolite fluxes. <i>New Phytologist</i> , <b>2019</b> , 223, 150-166	9.8	16
268	Critical review: incorporating the arrangement of mitochondria and chloroplasts into models of photosynthesis and carbon isotope discrimination. <i>Photosynthesis Research</i> , <b>2019</b> , 141, 5-31	3.7	23
267	Quantifying impacts of enhancing photosynthesis on crop yield. <i>Nature Plants</i> , <b>2019</b> , 5, 380-388	11.5	125
266	Estimating stomatal and biochemical limitations during photosynthetic induction. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 3227-3240	8.4	22
265	Two-Source $\delta$ Method to Validate the COO-Photosynthetic Discrimination Model: Implications for Mesophyll Conductance. <i>Plant Physiology</i> , <b>2019</b> , 181, 1175-1190	6.6	10
264	Plant water-use strategy mediates stomatal effects on the light induction of photosynthesis. <i>New Phytologist</i> , <b>2019</b> , 222, 382-395	9.8	33
263	Embracing 3D Complexity in Leaf Carbon-Water Exchange. <i>Trends in Plant Science</i> , <b>2019</b> , 24, 15-24	13.1	32
262	Rainfall statistics, stationarity, and climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 2305-2310	11.5	47
261	Rubisco is not really so bad. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 705-716	8.4	53
260	Commentary: Directions for Optimization of Photosynthetic Carbon Fixation: RuBisCO $\beta$ Efficiency May Not Be So Constrained After All. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 929	6.2	9
259	Using Stable Carbon Isotopes to Study C and C Photosynthesis: Models and Calculations. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1770, 155-196	1.4	16
258	Prescreening in large populations as a tool for identifying elevated CO-responsive genotypes in plants. <i>Functional Plant Biology</i> , <b>2018</b> , 46, 1-14	2.7	12
257	Plants increase CO uptake by assimilating nitrogen via the photorespiratory pathway. <i>Nature Plants</i> , <b>2018</b> , 4, 46-54	11.5	97
256	On the contributions of photorespiration and compartmentation to the contrasting intramolecular H profiles of C and C plant sugars. <i>Phytochemistry</i> , <b>2018</b> , 145, 197-206	4	10
255	Climate and soils together regulate photosynthetic carbon isotope discrimination within C3 plants worldwide. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 1056-1067	6.1	45
254	Simulating daily field crop canopy photosynthesis: an integrated software package. <i>Functional Plant Biology</i> , <b>2018</b> , 45, 362-377	2.7	31
253	Unsaturation of vapour pressure inside leaves of two conifer species. <i>Scientific Reports</i> , <b>2018</b> , 8, 7667	4.9	40
252	Tracking the origins of the Kok effect, 70 years after its discovery. <i>New Phytologist</i> , <b>2017</b> , 214, 506-510	9.8	21

251	Changes in the chloroplastic CO concentration explain much of the observed Kok effect: a model. <i>New Phytologist</i> , <b>2017</b> , 214, 570-584	9.8	39
250	Leaf day respiration: low CO flux but high significance for metabolism and carbon balance. <i>New Phytologist</i> , <b>2017</b> , 216, 986-1001	9.8	91
249	Does C Photosynthesis Occur in Wheat Seeds?. <i>Plant Physiology</i> , <b>2017</b> , 174, 1992-1995	6.6	12
248	Leaf water stable isotopes and water transport outside the xylem. <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 914-920	8.4	14
247	Optimal plant water economy. <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 881-896	8.4	65
246	Hydrogen isotopic differences between C and C land plant lipids: consequences of compartmentation in C photosynthetic chemistry and C photorespiration. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 2676-2690	8.4	20
245	Leaf vein fraction influences the P <sub>leaf</sub> effect and O enrichment in leaf water. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 2414-2427	8.4	30
244	Poor Evidence for C <sub>4</sub> Photosynthesis in the Wheat Grain. <i>Plant Physiology</i> , <b>2016</b> , 172, 1357	6.6	7
243	Three-dimensional microscale modelling of CO <sub>2</sub> transport and light propagation in tomato leaves enlightens photosynthesis. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 50-61	8.4	64
242	A mathematical model of pan evaporation under steady state conditions. <i>Journal of Hydrology</i> , <b>2016</b> , 540, 641-658	6	10
241	Stable isotopes in leaf water of terrestrial plants. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 1087-102	8.4	182
240	Allocate carbon for a reason: priorities are reflected in the $\delta^{13}\text{C}/\delta^{12}\text{C}$ ratios of plant lipids synthesized via three independent biosynthetic pathways. <i>Phytochemistry</i> , <b>2015</b> , 111, 14-20	4	14
239	Measurements of transpiration isotopologues and leaf water to assess enrichment models in cotton. <i>New Phytologist</i> , <b>2015</b> , 206, 637-46	9.8	43
238	"Rolled-upness": phenotyping leaf rolling in cereals using computer vision and functional data analysis approaches. <i>Plant Methods</i> , <b>2015</b> , 11, 52	5.8	17
237	On the assessment of aridity with changes in atmospheric CO <sub>2</sub> . <i>Water Resources Research</i> , <b>2015</b> , 51, 5450-5463	9.4	137
236	Modeling Canopy Photosynthesis from the Biochemistry of the C <sub>3</sub> Chloroplast. <i>CSSA Special Publication - Crop Science Society of America</i> , <b>2015</b> , 1-15		9
235	Photosynthesis and Carbon Assimilation. <i>Assa, Cssa and Sssa</i> , <b>2015</b> , 187-210	0.3	3
234	Growth responses of the mangrove <i>Avicennia marina</i> to salinity: development and function of shoot hydraulic systems require saline conditions. <i>Annals of Botany</i> , <b>2015</b> , 115, 397-407	4.1	69

233	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , <b>2015</b> , 206, 614-36	9.8	244
232	Drought response of mesophyll conductance in forest understory species--impacts on water-use efficiency and interactions with leaf water movement. <i>Physiologia Plantarum</i> , <b>2014</b> , 152, 98-114	4.6	35
231	Determinants of maximum tree height in Eucalyptus species along a rainfall gradient in Victoria, Australia. <i>Ecology</i> , <b>2014</b> , 95, 2991-3007	4.6	71
230	Rhizobium-induced elevation in xylem cytokinin delivery in pigeonpea induces changes in shoot development and leaf physiology. <i>Functional Plant Biology</i> , <b>2014</b> , 41, 1323-1335	2.7	19
229	Variation in mesophyll conductance among Australian wheat genotypes. <i>Functional Plant Biology</i> , <b>2014</b> , 41, 568-580	2.7	41
228	Advances in measurements and models of photosynthetic carbon isotope discrimination in C3 plants. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 1494-8	8.4	40
227	Photosynthesis-nitrogen relationships in tropical forest tree species as affected by soil phosphorus availability: a controlled environment study. <i>Functional Plant Biology</i> , <b>2014</b> , 41, 820-832	2.7	37
226	Contrasting photosynthetic characteristics of forest vs. savanna species (Far North Queensland, Australia). <i>Biogeosciences</i> , <b>2014</b> , 11, 7331-7347	4.6	14
225	A general framework for understanding the response of the water cycle to global warming over land and ocean. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 1575-1589	5.5	147
224	Turnover time of the non-structural carbohydrate pool influences $\delta^{18}O$ of leaf cellulose. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 2500-7	8.4	37
223	Variation in the carbon and oxygen isotope composition of plant biomass and its relationship to water-use efficiency at the leaf- and ecosystem-scales in a northern Great Plains grassland. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 425-38	8.4	67
222	Focus on Water. <i>Plant Physiology</i> , <b>2014</b> , 164, 1553-1555	6.6	7
221	Diffusional conductances to CO <sub>2</sub> as a target for increasing photosynthesis and photosynthetic water-use efficiency. <i>Photosynthesis Research</i> , <b>2013</b> , 117, 45-59	3.7	218
220	The impact of bushfires on water yield from south-east Australia's ash forests. <i>Water Resources Research</i> , <b>2013</b> , 49, 4493-4505	5.4	21
219	Environmental and physiological determinants of carbon isotope discrimination in terrestrial plants. <i>New Phytologist</i> , <b>2013</b> , 200, 950-65	9.8	354
218	D <sub>2</sub> O solvent isotope effects suggest uniform energy barriers in ribulose-1,5-bisphosphate carboxylase/oxygenase catalysis. <i>Biochemistry</i> , <b>2013</b> , 52, 869-77	3.2	21
217	The energy balance of a US Class A evaporation pan. <i>Agricultural and Forest Meteorology</i> , <b>2013</b> , 182-183, 314-331	5.8	25
216	What does optimization theory actually predict about crown profiles of photosynthetic capacity when models incorporate greater realism?. <i>Plant, Cell and Environment</i> , <b>2013</b> , 36, 1547-63	8.4	73

215	Impact of CO <sub>2</sub> fertilization on maximum foliage cover across the globe in warm, arid environments. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 3031-3035	4.9	344
214	Sensitivity of plants to changing atmospheric CO <sub>2</sub> concentration: from the geological past to the next century. <i>New Phytologist</i> , <b>2013</b> , 197, 1077-1094	9.8	256
213	The oxygen isotope enrichment of leaf-exported assimilates--does it always reflect lamina leaf water enrichment?. <i>New Phytologist</i> , <b>2013</b> , 200, 144-157	9.8	68
212	Transpiration rate relates to within- and across-species variations in effective path length in a leaf water model of oxygen isotope enrichment. <i>Plant, Cell and Environment</i> , <b>2013</b> , 36, 1338-51	8.4	74
211	Photosynthetically relevant foliar traits correlating better on a mass vs an area basis: of ecophysiological relevance or just a case of mathematical imperatives and statistical quicksand?. <i>New Phytologist</i> , <b>2013</b> , 199, 311-321	9.8	100
210	Genomic regions for canopy temperature and their genetic association with stomatal conductance and grain yield in wheat. <i>Functional Plant Biology</i> , <b>2012</b> , 40, 14-33	2.7	125
209	Changes in the variability of global land precipitation. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	69
208	The aerodynamics of pan evaporation. <i>Agricultural and Forest Meteorology</i> , <b>2012</b> , 152, 31-43	5.8	20
207	A controlled test of the dual-isotope approach for the interpretation of stable carbon and oxygen isotope ratio variation in tree rings. <i>Tree Physiology</i> , <b>2012</b> , 32, 490-503	4.2	95
206	Ternary effects on the gas exchange of isotopologues of carbon dioxide. <i>Plant, Cell and Environment</i> , <b>2012</b> , 35, 1221-31	8.4	122
205	Water cycle varies over land and sea. <i>Science</i> , <b>2012</b> , 336, 1230-1	33.3	10
204	A simple framework for relating variations in runoff to variations in climatic conditions and catchment properties. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	278
203	Hydroclimatic projections for the Murray-Darling Basin based on an ensemble derived from Intergovernmental Panel on Climate Change AR4 climate models. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	77
202	Temperature effect on leaf water deuterium enrichment and isotopic fractionation during leaf lipid biosynthesis: results from controlled growth of C <sub>3</sub> and C <sub>4</sub> land plants. <i>Phytochemistry</i> , <b>2011</b> , 72, 207-13	4	54
201	Variability in mesophyll conductance between barley genotypes, and effects on transpiration efficiency and carbon isotope discrimination. <i>Plant, Cell and Environment</i> , <b>2010</b> , 33, 1176-85	8.4	107
200	Partitioning the variance between space and time. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	25
199	Promotion of shoot development and tuberisation in potato by expression of a chimaeric cytokinin synthesis gene at normal and elevated CO <sub>2</sub> levels. <i>Functional Plant Biology</i> , <b>2010</b> , 37, 43	2.7	15
198	Effects of root restriction on growth and associated cytokinin levels in cotton ( <i>Gossypium hirsutum</i> ). <i>Functional Plant Biology</i> , <b>2010</b> , 37, 974	2.7	18

197	Zea mays rhizosphere respiration, but not soil organic matter decomposition was stable across a temperature gradient. <i>Soil Biology and Biochemistry</i> , <b>2010</b> , 42, 2030-2033	7.5	10
196	Biosynthetic origin of the saw-toothed profile in delta(13)C and delta(2)H of n-alkanes and systematic isotopic differences between n-, iso- and anteiso-alkanes in leaf waxes of land plants. <i>Phytochemistry</i> , <b>2010</b> , 71, 388-403	4	54
195	The use of natural abundance stable isotopic ratios to indicate the presence of oxygen-containing chemical linkages between cellulose and lignin in plant cell walls. <i>Phytochemistry</i> , <b>2010</b> , 71, 982-93	4	38
194	Pan Evaporation Trends and the Terrestrial Water Balance. I. Principles and Observations. <i>Geography Compass</i> , <b>2009</b> , 3, 746-760	2.4	111
193	Pan Evaporation Trends and the Terrestrial Water Balance. II. Energy Balance and Interpretation. <i>Geography Compass</i> , <b>2009</b> , 3, 761-780	2.4	135
192	Nitrogen in cell walls of sclerophyllous leaves accounts for little of the variation in photosynthetic nitrogen-use efficiency. <i>Plant, Cell and Environment</i> , <b>2009</b> , 32, 259-70	8.4	82
191	On the metabolic origin of the carbon isotope composition of CO <sub>2</sub> evolved from darkened light-acclimated leaves in <i>Ricinus communis</i> . <i>New Phytologist</i> , <b>2009</b> , 181, 374-386	9.8	112
190	Influence of clouds and diffuse radiation on ecosystem-atmosphere CO <sub>2</sub> and CO <sub>18</sub> O exchanges. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		59
189	Why are non-photosynthetic tissues generally C enriched compared with leaves in C plants? Review and synthesis of current hypotheses. <i>Functional Plant Biology</i> , <b>2009</b> , 36, 199-213	2.7	304
188	Modeling the Temperature Dependence of C <sub>3</sub> Photosynthesis. <i>Advances in Photosynthesis and Respiration</i> , <b>2009</b> , 231-246	1.7	27
187	Biochemical Model of C <sub>3</sub> Photosynthesis. <i>Advances in Photosynthesis and Respiration</i> , <b>2009</b> , 209-230	1.7	51
186	Experimental evidence for diel variations of the carbon isotope composition in leaf, stem and phloem sap organic matter in <i>Ricinus communis</i> . <i>Plant, Cell and Environment</i> , <b>2008</b> , 31, 941-53	8.4	118
185	Next generation of elevated [CO <sub>2</sub> ] experiments with crops: a critical investment for feeding the future world. <i>Plant, Cell and Environment</i> , <b>2008</b> , 31, 1317-24	8.4	145
184	Revisiting the parameterization of potential evaporation as a driver of long-term water balance trends. <i>Geophysical Research Letters</i> , <b>2008</b> , 35, n/a-n/a	4.9	104
183	Effects of rising temperatures and [CO <sub>2</sub> ] on the physiology of tropical forest trees. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2008</b> , 363, 1811-7	5.8	336
182	Environmental effects on oxygen isotope enrichment of leaf water in cotton leaves. <i>Plant Physiology</i> , <b>2008</b> , 146, 729-36	6.6	48
181	Biosynthetic and environmental effects on the stable carbon isotopic compositions of anteiso- (3-methyl) and iso- (2-methyl) alkanes in tobacco leaves. <i>Phytochemistry</i> , <b>2008</b> , 69, 2807-14	4	43
180	Quantitative trait loci for carbon isotope discrimination are repeatable across environments and wheat mapping populations. <i>Theoretical and Applied Genetics</i> , <b>2008</b> , 118, 123-37	6	140



179	An innovative molybdenum column liner for oxygen and hydrogen stable isotope analysis by pyrolysis. <i>Rapid Communications in Mass Spectrometry</i> , <b>2008</b> , 22, 1117-26	2.2	12
178	On the effect of heavy water (D <sub>2</sub> O) on carbon isotope fractionation in photosynthesis. <i>Functional Plant Biology</i> , <b>2008</b> , 35, 201-212	2.7	4
177	Contributions of woody and herbaceous vegetation to tropical savanna ecosystem productivity: a quasi-global estimate. <i>Tree Physiology</i> , <b>2008</b> , 28, 451-68	4.2	115
176	Mean annual GPP of Europe derived from its water balance. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	85
175	Have Australian rainfall and cloudiness increased due to the remote effects of Asian anthropogenic aerosols?. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		111
174	Maximum entropy production, cloud feedback, and climate change. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	22
173	On the attribution of changing pan evaporation. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	428
172	Macromolecular crowding and its influence on possible reaction mechanisms in photosynthetic electron flow. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2007</b> , 1767, 353-61	4.6	2
171	Tropical rainforest canopies and climate change. <i>Austral Ecology</i> , <b>2007</b> , 32, 105-112	1.5	12
170	Development of a stable isotope index to assess decadal-scale vegetation change and application to woodlands of the Burdekin catchment, Australia. <i>Global Change Biology</i> , <b>2007</b> , 13, 1455-1468	11.4	26
169	A new measurement technique reveals temporal variation in delta18O of leaf-respired CO <sub>2</sub> . <i>Plant, Cell and Environment</i> , <b>2007</b> , 30, 456-68	8.4	34
168	Modelling advection and diffusion of water isotopologues in leaves. <i>Plant, Cell and Environment</i> , <b>2007</b> , 30, 892-909	8.4	105
167	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
166	Oxygen isotope enrichment of organic matter in <i>Ricinus communis</i> during the diel course and as affected by assimilate transport. <i>New Phytologist</i> , <b>2007</b> , 174, 600-613	9.8	54
165	On the O/O isotope effect associated with photosynthetic O production. <i>Functional Plant Biology</i> , <b>2007</b> , 34, 1049-1052	2.7	7
164	Differences in carbon isotope discrimination of three variants of D-ribulose-1,5-bisphosphate carboxylase/oxygenase reflect differences in their catalytic mechanisms. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 36068-76	5.4	69
163	The mechanical diversity of stomata and its significance in gas-exchange control. <i>Plant Physiology</i> , <b>2007</b> , 143, 78-87	6.6	351
162	Heavy water fractionation during transpiration. <i>Plant Physiology</i> , <b>2007</b> , 143, 11-8	6.6	318



161	Overproduction of abscisic acid in tomato increases transpiration efficiency and root hydraulic conductivity and influences leaf expansion. <i>Plant Physiology</i> , <b>2007</b> , 143, 1905-17	6.6	256
160	Flux of organic matter transported from the leaves to the roots in <i>Eucalyptus delegatensis</i> : short-term variations and relation to respired CO <sub>2</sub> . <i>Functional Plant Biology</i> , <b>2007</b> , 34, 692-706	2.7	106
159	Using Stomatal Aperture-Related Traits to Select for High Yield Potential in Bread Wheat <b>2007</b> , 617-624		11
158	A comment on the quantitative significance of aerobic methane release by plants. <i>Functional Plant Biology</i> , <b>2006</b> , 33, 521-530	2.7	93
157	Determining RuBisCO activation kinetics and other rate and equilibrium constants by simultaneous multiple non-linear regression of a kinetic model. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 3883-900	7	37
156	Despite slow catalysis and confused substrate specificity, all ribulose biphosphate carboxylases may be nearly perfectly optimized. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 7246-51	11.5	533
155	A simple pan-evaporation model for analysis of climate simulations: Evaluation over Australia. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	96
154	Viewpoint: Isotopic fractionation by plant nitrate reductase, twenty years later. <i>Functional Plant Biology</i> , <b>2006</b> , 33, 531-537	2.7	37
153	Hydraulically based stomatal oscillations and stomatal patchiness in <i>Gossypium hirsutum</i> . <i>Functional Plant Biology</i> , <b>2006</b> , 33, 1103-1113	2.7	35
152	Measurement of (carbon) kinetic isotope effect by Rayleigh fractionation using membrane inlet mass spectrometry for CO <sub>2</sub> -consuming reactions. <i>Functional Plant Biology</i> , <b>2006</b> , 33, 1115-1128	2.7	32
151	Dynamics of stomatal water relations following leaf excision. <i>Plant, Cell and Environment</i> , <b>2006</b> , 29, 981-994	2.4	34
150	Inheritance of Carbon Isotope Discrimination in Bread Wheat ( <i>Triticum Aestivum</i> L.). <i>Euphytica</i> , <b>2006</b> , 150, 97-106	2.1	55
149	Nocturnal stomatal conductance and implications for modelling flux of leaf-respired CO <sub>2</sub> in temperate tree species. <i>Functional Plant Biology</i> , <b>2006</b> , 32, 1107-1121	2.7	59
148	The influence of protein-protein interactions on the organization of proteins within thylakoid membranes. <i>Biophysical Journal</i> , <b>2005</b> , 88, 2650-60	2.9	18
147	Co-Evolution of Climate, Soil and Vegetation <b>2005</b> ,		12
146	Viewpoint: Carbon isotope effect predictions for enzymes involved in the primary carbon metabolism of plant leaves. <i>Functional Plant Biology</i> , <b>2005</b> , 32, 277-291	2.7	71
145	On the isotopic composition of leaf water in the non-steady state. <i>Functional Plant Biology</i> , <b>2005</b> , 32, 293-303	2.7	235
144	Variation in the degree of coupling between delta13C of phloem sap and ecosystem respiration in two mature <i>Nothofagus</i> forests. <i>New Phytologist</i> , <b>2005</b> , 166, 497-512	9.8	65

143	The ERECTA gene regulates plant transpiration efficiency in Arabidopsis. <i>Nature</i> , <b>2005</b> , 436, 866-70	50.4	437
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140	Measurement and interpretation of the oxygen isotope composition of carbon dioxide respired by leaves in the dark. <i>Plant Physiology</i> , <b>2004</b> , 136, 3350-63	6.6	61
139	Theoretical considerations about carbon isotope distribution in glucose of C plants. <i>Functional Plant Biology</i> , <b>2004</b> , 31, 857-877	2.7	126
138	A new analytical model for whole-leaf potential electron transport rate. <i>Plant, Cell and Environment</i> , <b>2004</b> , 27, 1487-1502	8.4	25
137	Expressing leaf water and cellulose oxygen isotope ratios as enrichment above source water reveals evidence of a P <sub>st</sub> effect. <i>Oecologia</i> , <b>2004</b> , 138, 426-35	2.9	223
136	Oxygen and carbon isotope composition of parasitic plants and their hosts in southwestern Australia. <i>Oecologia</i> , <b>2004</b> , 139, 199-213	2.9	45
135	Do pathways of water movement and leaf anatomical dimensions allow development of gradients in H <sub>2</sub> <sup>18</sup> O between veins and the sites of evaporation within leaves?. <i>Plant, Cell and Environment</i> , <b>2004</b> , 27, 107-121	8.4	72
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131	Oxygen Isotope Analysis of Plant Water Without Extraction Procedure <b>2004</b> , 473-481		2
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128	Atmospheric science. Pinatubo, diffuse light, and the carbon cycle. <i>Science</i> , <b>2003</b> , 299, 1997-8	33.3	161
127	Oxygen isotope composition of phloem sap in relation to leaf water in <i>Ricinus communis</i> . <i>Functional Plant Biology</i> , <b>2003</b> , 30, 1059-1070	2.7	81
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123	A hydromechanical and biochemical model of stomatal conductance. <i>Plant, Cell and Environment</i> , <b>2003</b> , 26, 1767-1785	8.4	233
122	Gene action for leaf conductance in three wheat crosses. <i>Australian Journal of Agricultural Research</i> , <b>2003</b> , 54, 381		36
121	Dependence of plastoquinol diffusion on the shape, size, and density of integral thylakoid proteins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2003</b> , 1607, 97-109	4.6	84
120	On the progressive enrichment of the oxygen isotopic composition of water along a leaf. <i>Plant, Cell and Environment</i> , <b>2003</b> , 26, 801-819	8.4	25
119	Selection for Reduced Carbon Isotope Discrimination Increases Aerial Biomass and Grain Yield of Rainfed Bread Wheat. <i>Crop Science</i> , <b>2002</b> , 42, 739-745	2.4	305
118	Soil and canopy $\text{CO}_2$ , $^{13}\text{CO}_2$ , $\text{H}_2\text{O}$ and sensible heat flux partitions in a forest canopy inferred from concentration measurements. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2002</b> , 54, 655-676	3.3	4
117	Soil and canopy $\text{CO}_2$ , $^{13}\text{CO}_2$ , $\text{H}_2\text{O}$ and sensible heat flux partitions in a forest canopy inferred from concentration measurements. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2002</b> , 54, 655-676	3.3	21
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114	Improving Intrinsic Water-Use Efficiency and Crop Yield. <i>Crop Science</i> , <b>2002</b> , 42, 122-131	2.4	257
113	$(^{18}\text{O})$ spatial patterns of vein xylem water, leaf water, and dry matter in cotton leaves. <i>Plant Physiology</i> , <b>2002</b> , 130, 1008-21	6.6	81
112	The Cause of Decreased Pan Evaporation over the Past 50 Years. <i>Science</i> , <b>2002</b> , 298, 1410-1411	33.3	521
111	Optimal stomatal control in relation to leaf area and nitrogen content. <i>Silva Fennica</i> , <b>2002</b> , 36,	1.9	113
110	The mathematics of linked optimisation for water and nitrogen use in a canopy. <i>Silva Fennica</i> , <b>2002</b> , 36,	1.9	65
109	Improving Intrinsic Water-Use Efficiency and Crop Yield. <i>Crop Science</i> , <b>2002</b> , 42, 122	2.4	239
108	Selection for Reduced Carbon Isotope Discrimination Increases Aerial Biomass and Grain Yield of Rainfed Bread Wheat. <i>Crop Science</i> , <b>2002</b> , 42, 739	2.4	198

107	Improving Intrinsic Water-Use Efficiency and Crop Yield. <i>Crop Science</i> , <b>2002</b> , 42, 122-131	2.4	373
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104	The effect of exogenous abscisic acid on stomatal development, stomatal mechanics, and leaf gas exchange in <i>Tradescantia virginiana</i> . <i>Plant Physiology</i> , <b>2001</b> , 125, 935-42	6.6	206
103	Models of photosynthesis. <i>Plant Physiology</i> , <b>2001</b> , 125, 42-5	6.6	209
102	Canopy carbon and oxygen isotope composition of 9-year-old hoop pine families in relation to seedling carbon isotope composition, growth, field growth performance, and canopy nitrogen concentration. <i>Canadian Journal of Forest Research</i> , <b>2001</b> , 31, 673-681	1.9	17
101	Correlations between oxygen isotope ratios of wood constituents of <i>Quercus</i> and <i>Pinus</i> samples from around the world. <i>Functional Plant Biology</i> , <b>2001</b> , 28, 335	2.7	47
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4	Transpiration-linked Short-circuit Currents in the Xylem of a Liana. <i>Journal of Experimental Botany</i> , <b>1971</b> , 22, 818-829	7	2
3	Contrasting photosynthetic characteristics of forest vs. savanna species (far North Queensland, Australia)		1
2	A general framework for understanding the response of the water cycle to global warming over land and ocean		1
1	Carbon Isotope Discrimination and Plant Breeding		7