

Graham D Farquhar

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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	A biochemical model of photosynthetic CO ₂ assimilation in leaves of C ₃ species. <i>Planta</i> , 1980 , 149, 78-90.	4.7	6046
285	Carbon Isotope Discrimination and Photosynthesis. <i>Annual Review of Plant Biology</i> , 1989 , 40, 503-537		4637
284	Some relationships between the biochemistry of photosynthesis and the gas exchange of leaves. <i>Planta</i> , 1981 , 153, 376-87	4.7	3732
283	Stomatal Conductance and Photosynthesis. <i>Annual Review of Plant Physiology</i> , 1982 , 33, 317-345		2714
282	Stomatal conductance correlates with photosynthetic capacity. <i>Nature</i> , 1979 , 282, 424-426	50.4	1079
281	Fitting photosynthetic carbon dioxide response curves for C(3) leaves. <i>Plant, Cell and Environment</i> , 2007 , 30, 1035-40	8.4	883
280	Simple scaling of photosynthesis from leaves to canopies without the errors of big-leaf models. <i>Plant, Cell and Environment</i> , 1997 , 20, 537-557	8.4	880
279	Effect of temperature on the CO ₂ /O ₂ specificity of ribulose-1,5-bisphosphate carboxylase/oxygenase and the rate of respiration in the light : Estimates from gas-exchange measurements on spinach. <i>Planta</i> , 1985 , 165, 397-406	4.7	834
278	Breeding for high water-use efficiency. <i>Journal of Experimental Botany</i> , 2004 , 55, 2447-60	7	761
277	Despite slow catalysis and confused substrate specificity, all ribulose bisphosphate carboxylases may be nearly perfectly optimized. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 7246-51	11.5	533
276	The Cause of Decreased Pan Evaporation over the Past 50 Years. <i>Science</i> , 2002 , 298, 1410-1411	33.3	521
275	An explanation of ¹³ C/ ¹² C variations in tree rings. <i>Nature</i> , 1982 , 297, 28-31	50.4	466
274	C discrimination during CO ₂ assimilation by the terrestrial biosphere. <i>Oecologia</i> , 1994 , 99, 201-215	2.9	463
273	Carbon isotope discrimination by plants follows latitudinal and altitudinal trends. <i>Oecologia</i> , 1991 , 88, 30-40	2.9	457
272	The ERECTA gene regulates plant transpiration efficiency in Arabidopsis. <i>Nature</i> , 2005 , 436, 866-70	50.4	437
271	On the attribution of changing pan evaporation. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	428
270	On the Gaseous Exchange of Ammonia between Leaves and the Environment: Determination of the Ammonia Compensation Point. <i>Plant Physiology</i> , 1980 , 66, 710-4	6.6	410

- 269 A global survey of carbon isotope discrimination in plants from high altitude. *Oecologia*, **1988**, 74, 623-632 405
- 268 Carbon and Oxygen Isotope Effects in the Exchange of Carbon Dioxide between Terrestrial Plants and the Atmosphere **1993**, 47-70 381
- 267 Improving Intrinsic Water-Use Efficiency and Crop Yield. *Crop Science*, **2002**, 42, 122-131 2.4 373
- 266 On the direct effect of clouds and atmospheric particles on the productivity and structure of vegetation. *Oecologia*, **2001**, 129, 21-30 2.9 369
- 265 Environmental and physiological determinants of carbon isotope discrimination in terrestrial plants. *New Phytologist*, **2013**, 200, 950-65 9.8 354
- 264 The mechanical diversity of stomata and its significance in gas-exchange control. *Plant Physiology*, **2007**, 143, 78-87 6.6 351
- 263 Modelling of Photosynthetic Response to Environmental Conditions **1982**, 549-587 350
- 262 Impact of CO₂ fertilization on maximum foliage cover across the globe in warm, arid environments. *Geophysical Research Letters*, **2013**, 40, 3031-3035 4.9 344
- 261 Vegetation effects on the isotope composition of oxygen in atmospheric CO₂. *Nature*, **1993**, 363, 439-443 50.4 343
- 260 Effects of rising temperatures and [CO₂] on the physiology of tropical forest trees. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2008**, 363, 1811-7 5.8 336
- 259 Carbon Isotope Fractionation and Plant Water-Use Efficiency. *Ecological Studies*, **1989**, 21-40 1.1 320
- 258 Heavy water fractionation during transpiration. *Plant Physiology*, **2007**, 143, 11-8 6.6 318
- 257 Carbon Isotope Discrimination is Positively Correlated with Grain Yield and Dry Matter Production in Field-Grown Wheat¹. *Crop Science*, **1987**, 27, 996-1001 2.4 311
- 256 Selection for Reduced Carbon Isotope Discrimination Increases Aerial Biomass and Grain Yield of Rainfed Bread Wheat. *Crop Science*, **2002**, 42, 739-745 2.4 305
- 255 Why are non-photosynthetic tissues generally C enriched compared with leaves in C plants? Review and synthesis of current hypotheses. *Functional Plant Biology*, **2009**, 36, 199-213 2.7 304
- 254 A simple framework for relating variations in runoff to variations in climatic conditions and catchment properties. *Water Resources Research*, **2011**, 47, 5.4 278
- 253 Relative humidity- and ABA-induced variation in carbon and oxygen isotope ratios of cotton leaves. *Plant, Cell and Environment*, **2000**, 23, 473-485 8.4 278
- 252 On the relationship between leaf anatomy and CO₂ diffusion through the mesophyll of hypostomatous leaves. *Plant, Cell and Environment*, **1995**, 18, 149-157 8.4 270

251	Photosynthetic and Stomatal Responses of Two Mangrove Species, <i>Aegiceras corniculatum</i> and <i>Avicennia marina</i> , to Long Term Salinity and Humidity Conditions. <i>Plant Physiology</i> , 1984 , 74, 1-6	6.6	265
250	Leaf Conductance in Relation to Rate of CO ₂ Assimilation: I. Influence of Nitrogen Nutrition, Phosphorus Nutrition, Photon Flux Density, and Ambient Partial Pressure of CO ₂ during Ontogeny. <i>Plant Physiology</i> , 1985 , 78, 821-5	6.6	265
249	Improving Intrinsic Water-Use Efficiency and Crop Yield. <i>Crop Science</i> , 2002 , 42, 122-131	2.4	257
248	Sensitivity of plants to changing atmospheric CO ₂ concentration: from the geological past to the next century. <i>New Phytologist</i> , 2013 , 197, 1077-1094	9.8	256
247	Overproduction of abscisic acid in tomato increases transpiration efficiency and root hydraulic conductivity and influences leaf expansion. <i>Plant Physiology</i> , 2007 , 143, 1905-17	6.6	256
246	Changes in Australian pan evaporation from 1970 to 2002. <i>International Journal of Climatology</i> , 2004 , 24, 1077-1090	3.5	256
245	Effects of partial defoliation, changes of irradiance during growth, short-term water stress and growth at enhanced p(CO ₂) on the photosynthetic capacity of leaves of <i>Phaseolus vulgaris</i> L. <i>Planta</i> , 1984 , 160, 320-9	4.7	254
244	Low conductances for CO ₂ diffusion from stomata to the sites of carboxylation in leaves of woody species. <i>Plant, Cell and Environment</i> , 1992 , 15, 873-899	8.4	252
243	Correlation between the Carbon Isotope Discrimination in Leaf Starch and Sugars of C(3) Plants and the Ratio of Intercellular and Atmospheric Partial Pressures of Carbon Dioxide. <i>Plant Physiology</i> , 1988 , 88, 1418-24	6.6	248
242	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , 2015 , 206, 614-36	9.8	244
241	The CO ₂ Dependence of Photosynthesis, Plant Growth Responses to Elevated Atmospheric CO ₂ Concentrations and Their Interaction with Soil Nutrient Status. I. General Principles and Forest Ecosystems. <i>Functional Ecology</i> , 1996 , 10, 4	5.6	240
240	Improving Intrinsic Water-Use Efficiency and Crop Yield. <i>Crop Science</i> , 2002 , 42, 122	2.4	239
239	On the isotopic composition of leaf water in the non-steady state. <i>Functional Plant Biology</i> , 2005 , 32, 293-303	2.7	235
238	Stomatal function in relation to leaf metabolism and environment. <i>Symposia of the Society for Experimental Biology</i> , 1977 , 31, 471-505		234
237	A hydromechanical and biochemical model of stomatal conductance. <i>Plant, Cell and Environment</i> , 2003 , 26, 1767-1785	8.4	233
236	Effect of salinity and humidity on Δ value of halophytes-Evidence for diffusional isotope fractionation determined by the ratio of intercellular/atmospheric partial pressure of CO under different environmental conditions. <i>Oecologia</i> , 1982 , 52, 121-124	2.9	233
235	CO ₂ and Water Vapor Exchange across Leaf Cuticle (Epidermis) at Various Water Potentials. <i>Plant Physiology</i> , 1997 , 114, 185-191	6.6	229
234	Expressing leaf water and cellulose oxygen isotope ratios as enrichment above source water reveals evidence of a Pilelet effect. <i>Oecologia</i> , 2004 , 138, 426-35	2.9	223

233	Diffusional conductances to CO ₂ as a target for increasing photosynthesis and photosynthetic water-use efficiency. <i>Photosynthesis Research</i> , 2013 , 117, 45-59	3.7	218
232	Water-Use Efficiency and Carbon Isotope Discrimination in Peanut under Water Deficit Conditions. <i>Crop Science</i> , 1994 , 34, 92-97	2.4	211
231	Seasonal variation in $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ of cellulose from growth rings of <i>Pinus radiata</i> . <i>Plant, Cell and Environment</i> , 2002 , 25, 1483-1499	8.4	209
230	Models of photosynthesis. <i>Plant Physiology</i> , 2001 , 125, 42-5	6.6	209
229	The effect of exogenous abscisic acid on stomatal development, stomatal mechanics, and leaf gas exchange in <i>Tradescantia virginiana</i> . <i>Plant Physiology</i> , 2001 , 125, 935-42	6.6	206
228	Selection for Reduced Carbon Isotope Discrimination Increases Aerial Biomass and Grain Yield of Rainfed Bread Wheat. <i>Crop Science</i> , 2002 , 42, 739	2.4	198
227	Xylem-tapping mistletoes: water or nutrient parasites?. <i>Science</i> , 1985 , 227, 1479-81	33.3	185
226	Stable isotopes in leaf water of terrestrial plants. <i>Plant, Cell and Environment</i> , 2016 , 39, 1087-102	8.4	182
225	Environmental and physiological controls over oxygen and carbon isotope composition of Tasmanian blue gum, <i>Eucalyptus globulus</i> . <i>Tree Physiology</i> , 2005 , 25, 129-46	4.2	177
224	Leaf Conductance in Relation to Assimilation in <i>Eucalyptus pauciflora</i> Sieb. ex Spreng: Influence of Irradiance and Partial Pressure of Carbon Dioxide. <i>Plant Physiology</i> , 1978 , 62, 670-4	6.6	172
223	Photosynthetic Fractionation of Carbon Isotopes. <i>Advances in Photosynthesis and Respiration</i> , 2000 , 399-434	4.4	169
222	Atmospheric science. Pinatubo, diffuse light, and the carbon cycle. <i>Science</i> , 2003 , 299, 1997-8	33.3	161
221	Water-Use Efficiency and Carbon Isotope Discrimination in Wheat. <i>Crop Science</i> , 1991 , 31, 1282-1288	2.4	161
220	The influence of N metabolism and organic acid synthesis on the natural abundance of isotopes of carbon in plants. <i>New Phytologist</i> , 1990 , 116, 505-529	9.8	158
219	A relationship between humidity response, growth form and photosynthetic operating point in C3 plants. <i>Plant, Cell and Environment</i> , 1999 , 22, 1337-1349	8.4	157
218	Playing-off the negative grain yield response of dryland wheat to nitrogen fertiliser II. Carbohydrate and protein dynamics. <i>Australian Journal of Agricultural Research</i> , 1998 , 49, 1083		155
217	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> , 2014 , 18, 1575-1589	5.5	147
216	Next generation of elevated [CO ₂] experiments with crops: a critical investment for feeding the future world. <i>Plant, Cell and Environment</i> , 2008 , 31, 1317-24	8.4	145

215	Changes in Australian pan evaporation from 1970 to 2002. <i>International Journal of Climatology</i> , 2004 , 24, 1077-1090	3.5	141
214	Quantitative trait loci for carbon isotope discrimination are repeatable across environments and wheat mapping populations. <i>Theoretical and Applied Genetics</i> , 2008 , 118, 123-37	6	140
213	On the assessment of aridity with changes in atmospheric CO ₂ . <i>Water Resources Research</i> , 2015 , 51, 5450-5463	9.4	137
212	Diurnal variation in the stable isotope composition of water and dry matter in fruiting <i>Lupinus angustifolius</i> under field conditions. <i>Plant, Cell and Environment</i> , 2002 , 25, 893-907	8.4	137
211	Pan Evaporation Trends and the Terrestrial Water Balance. II. Energy Balance and Interpretation. <i>Geography Compass</i> , 2009 , 3, 761-780	2.4	135
210	A simple new equation for the reversible temperature dependence of photosynthetic electron transport: a study on soybean leaf. <i>Functional Plant Biology</i> , 2004 , 31, 275-283	2.7	134
209	Leaf Conductance in Relation to Rate of CO ₂ Assimilation: III. Influences of Water Stress and Photoinhibition. <i>Plant Physiology</i> , 1985 , 78, 830-4	6.6	133
208	A rapid on-line technique for determination of oxygen isotope composition of nitrogen-containing organic matter and water. <i>Rapid Communications in Mass Spectrometry</i> , 1997 , 11, 1554-1560	2.2	129
207	Variation in the oxygen isotope ratio of phloem sap sucrose from castor bean. Evidence in support of the Pilet effect. <i>Plant Physiology</i> , 2000 , 123, 671-80	6.6	129
206	Investigation of the CO ₂ Dependence of Quantum Yield and Respiration in <i>Eucalyptus pauciflora</i> . <i>Plant Physiology</i> , 1987 , 83, 1032-6	6.6	128
205	Photosynthetic and Stomatal Responses of the Grey Mangrove, <i>Avicennia marina</i> , to Transient Salinity Conditions. <i>Plant Physiology</i> , 1984 , 74, 7-11	6.6	127
204	Theoretical considerations about carbon isotope distribution in glucose of C plants. <i>Functional Plant Biology</i> , 2004 , 31, 857-877	2.7	126
203	Quantifying impacts of enhancing photosynthesis on crop yield. <i>Nature Plants</i> , 2019 , 5, 380-388	11.5	125
202	Genomic regions for canopy temperature and their genetic association with stomatal conductance and grain yield in wheat. <i>Functional Plant Biology</i> , 2012 , 40, 14-33	2.7	125
201	Analysis of respiratory chain regulation in roots of soybean seedlings. <i>Plant Physiology</i> , 1998 , 117, 1083-836	6.3	125
200	Effects of water status and soil fertility on the C-isotope signature in <i>Pinus radiata</i> . <i>Tree Physiology</i> , 1999 , 19, 551-562	4.2	123
199	Ternary effects on the gas exchange of isotopologues of carbon dioxide. <i>Plant, Cell and Environment</i> , 2012 , 35, 1221-31	8.4	122
198	Models describing the kinetics of ribulose biphosphate carboxylase-oxygenase. <i>Archives of Biochemistry and Biophysics</i> , 1979 , 193, 456-68	4.1	119

197	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> , 2008 , 31, 941-53	8.4	118
196	Changes in New Zealand pan evaporation since the 1970s. <i>International Journal of Climatology</i> , 2005 , 25, 2031-2039	3.5	116
195	Seed and Seedling Characteristics Contributing to Variation in Early Vigor among Temperate Cereals. <i>Crop Science</i> , 1996 , 36, 1257-1266	2.4	116
194	Contributions of woody and herbaceous vegetation to tropical savanna ecosystem productivity: a quasi-global estimate. <i>Tree Physiology</i> , 2008 , 28, 451-68	4.2	115
193	Optimal stomatal control in relation to leaf area and nitrogen content. <i>Silva Fennica</i> , 2002 , 36,	1.9	113
192	On the metabolic origin of the carbon isotope composition of CO ₂ evolved from darkened light-acclimated leaves in <i>Ricinus communis</i> . <i>New Phytologist</i> , 2009 , 181, 374-386	9.8	112
191	Pan Evaporation Trends and the Terrestrial Water Balance. I. Principles and Observations. <i>Geography Compass</i> , 2009 , 3, 746-760	2.4	111
190	Have Australian rainfall and cloudiness increased due to the remote effects of Asian anthropogenic aerosols?. <i>Journal of Geophysical Research</i> , 2007 , 112,		111
189	CLIMATE CHANGE: Carbon Dioxide and Vegetation. <i>Science</i> , 1997 , 278, 1411-1411	33.3	109
188	The apparent feedforward response of stomata to air vapour pressure deficit: information revealed by different experimental procedures with two rainforest trees. <i>Plant, Cell and Environment</i> , 1997 , 20, 142-145	8.4	108
187	Variability in mesophyll conductance between barley genotypes, and effects on transpiration efficiency and carbon isotope discrimination. <i>Plant, Cell and Environment</i> , 2010 , 33, 1176-85	8.4	107
186	¶ of organic matter transported from the leaves to the roots in <i>Eucalyptus delegatensis</i> : short-term variations and relation to respired CO. <i>Functional Plant Biology</i> , 2007 , 34, 692-706	2.7	106
185	Gain of the feedback loop involving carbon dioxide and stomata: theory and measurement. <i>Plant Physiology</i> , 1978 , 62, 406-12	6.6	106
184	Modelling advection and diffusion of water isotopologues in leaves. <i>Plant, Cell and Environment</i> , 2007 , 30, 892-909	8.4	105
183	Revisiting the parameterization of potential evaporation as a driver of long-term water balance trends. <i>Geophysical Research Letters</i> , 2008 , 35, n/a-n/a	4.9	104
182	Carbon isotope discrimination by a sequence of <i>Eucalyptus</i> species along a subcontinental rainfall gradient in Australia. <i>Functional Ecology</i> , 2001 , 15, 222-232	5.6	103
181	Effect of abscisic Acid on the gain of the feedback loop involving carbon dioxide and stomata. <i>Plant Physiology</i> , 1978 , 62, 413-7	6.6	103
180	A study of stomatal mechanics using the cell pressure probe. <i>Plant, Cell and Environment</i> , 1998 , 21, 94-104	10.4	102

179	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> , 2013 , 199, 311-321	9.8	100
178	Effects of elevated [CO ₂] and nitrogen nutrition on cytokinins in the xylem sap and leaves of cotton. <i>Plant Physiology</i> , 2000 , 124, 767-80	6.6	100
177	Water relations link carbon and oxygen isotope discrimination to phloem sap sugar concentration in <i>Eucalyptus globulus</i> . <i>Plant Physiology</i> , 2003 , 131, 1544-54	6.6	99
176	Plants increase CO uptake by assimilating nitrogen via the photorespiratory pathway. <i>Nature Plants</i> , 2018 , 4, 46-54	11.5	97
175	A simple pan-evaporation model for analysis of climate simulations: Evaluation over Australia. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	96
174	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> , 2012 , 32, 490-503	4.2	95
173	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO. <i>New Phytologist</i> , 2021 , 229, 2413-2445	9.8	94
172	A comment on the quantitative significance of aerobic methane release by plants. <i>Functional Plant Biology</i> , 2006 , 33, 521-530	2.7	93
171	Leaf day respiration: low CO flux but high significance for metabolism and carbon balance. <i>New Phytologist</i> , 2017 , 216, 986-1001	9.8	91
170	A Direct Confirmation of the Standard Method of Estimating Intercellular Partial Pressure of CO ₂ . <i>Plant Physiology</i> , 1982 , 69, 657-9	6.6	88
169	On the Resistance to Transpiration of the Sites of Evaporation within the Leaf. <i>Plant Physiology</i> , 1978 , 61, 1000-5	6.6	88
168	Mean annual GPP of Europe derived from its water balance. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	85
167	Dependence of plastoquinol diffusion on the shape, size, and density of integral thylakoid proteins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003 , 1607, 97-109	4.6	84
166	Terrestrial carbon storage at the LGM. <i>Nature</i> , 1994 , 371, 566-566	50.4	83
165	Short-term changes in leaf carbon isotope discrimination in salt- and water-stressed c(4) grasses. <i>Plant Physiology</i> , 1989 , 90, 162-6	6.6	83
164	Leaf Conductance in Relation to Rate of CO ₂ Assimilation: II. Effects of Short-Term Exposures to Different Photon Flux Densities. <i>Plant Physiology</i> , 1985 , 78, 826-9	6.6	83
163	Nitrogen in cell walls of sclerophyllous leaves accounts for little of the variation in photosynthetic nitrogen-use efficiency. <i>Plant, Cell and Environment</i> , 2009 , 32, 259-70	8.4	82
162	Ammonia volatilization from senescing leaves of maize. <i>Science</i> , 1979 , 203, 1257-8	33.3	82

161	Reduction of Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase by Antisense RNA in the C4 Plant <i>Flaveria bidentis</i> Leads to Reduced Assimilation Rates and Increased Carbon Isotope Discrimination. <i>Plant Physiology</i> , 1997 , 113, 469-477	6.6	81
160	Oxygen isotope composition of phloem sap in relation to leaf water in <i>Ricinus communis</i> . <i>Functional Plant Biology</i> , 2003 , 30, 1059-1070	2.7	81
159	(18)O spatial patterns of vein xylem water, leaf water, and dry matter in cotton leaves. <i>Plant Physiology</i> , 2002 , 130, 1008-21	6.6	81
158	The relationship between the Rubisco reaction mechanism and models of photosynthesis*. <i>Plant, Cell and Environment</i> , 1990 , 13, 219-225	8.4	81
157	Qualitative effects of patchy stomatal conductance distribution features on gas-exchange calculations. <i>Plant, Cell and Environment</i> , 1997 , 20, 867-880	8.4	80
156	Effects of soil strength on the relation of water-use efficiency and growth to carbon isotope discrimination in wheat seedlings. <i>Plant Physiology</i> , 1988 , 86, 32-8	6.6	80
155	Gas Exchange, Stomatal Behavior, and deltaC Values of the flacca Tomato Mutant in Relation to Absciscic Acid. <i>Plant Physiology</i> , 1983 , 72, 245-50	6.6	80
154	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> , 2011 , 47,	5.4	77
153	Carbon isotope discrimination and oxygen isotope composition in clones of the F(1) hybrid between slash pine and Caribbean pine in relation to tree growth, water-use efficiency and foliar nutrient concentration. <i>Tree Physiology</i> , 2000 , 20, 1209-1217	4.2	76
152	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> , 2013 , 36, 1338-51	8.4	74
151	What does optimization theory actually predict about crown profiles of photosynthetic capacity when models incorporate greater realism?. <i>Plant, Cell and Environment</i> , 2013 , 36, 1547-63	8.4	73
150	Do pathways of water movement and leaf anatomical dimensions allow development of gradients in H218O between veins and the sites of evaporation within leaves?. <i>Plant, Cell and Environment</i> , 2004 , 27, 107-121	8.4	72
149	Gradients of Interacellular CO(2) Levels Across the Leaf Mesophyll. <i>Plant Physiology</i> , 1988 , 86, 1032-7	6.6	72
148	Determinants of maximum tree height in Eucalyptus species along a rainfall gradient in Victoria, Australia. <i>Ecology</i> , 2014 , 95, 2991-3007	4.6	71
147	Viewpoint: Carbon isotope effect predictions for enzymes involved in the primary carbon metabolism of plant leaves. <i>Functional Plant Biology</i> , 2005 , 32, 277-291	2.7	71
146	On the progressive enrichment of the oxygen isotopic composition of water along a leaf. <i>Plant, Cell and Environment</i> , 2003 , 26, 1579-1597	8.4	70
145	A theoretical approach to linking the composition and morphology with the function of leaves. <i>Functional Ecology</i> , 1999 , 13, 683-695	5.6	70
144	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> , 2015 , 115, 397-407	4.1	69

143	Changes in the variability of global land precipitation. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	69
142	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> , 2007 , 282, 36068-76	5.4	69
141	The oxygen isotope enrichment of leaf-exported assimilates--does it always reflect lamina leaf water enrichment?. <i>New Phytologist</i> , 2013 , 200, 144-157	9.8	68
140	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> , 2014 , 37, 425-38	8.4	67
139	Optimal plant water economy. <i>Plant, Cell and Environment</i> , 2017 , 40, 881-896	8.4	65
138	Variation in the degree of coupling between delta13C of phloem sap and ecosystem respiration in two mature Nothofagus forests. <i>New Phytologist</i> , 2005 , 166, 497-512	9.8	65
137	The mathematics of linked optimisation for water and nitrogen use in a canopy. <i>Silva Fennica</i> , 2002 , 36,	1.9	65
136	Three-dimensional microscale modelling of CO2 transport and light propagation in tomato leaves enlightens photosynthesis. <i>Plant, Cell and Environment</i> , 2016 , 39, 50-61	8.4	64
135	Temperature-dependent feedback inhibition of photosynthesis in peanut. <i>Planta</i> , 1988 , 175, 348-54	4.7	63
134	Measurement and interpretation of the oxygen isotope composition of carbon dioxide respired by leaves in the dark. <i>Plant Physiology</i> , 2004 , 136, 3350-63	6.6	61
133	Influence of clouds and diffuse radiation on ecosystem-atmosphere CO2 and CO18O exchanges. <i>Journal of Geophysical Research</i> , 2009 , 114,		59
132	Nocturnal stomatal conductance and implications for modelling Δ of leaf-respired CO in temperate tree species. <i>Functional Plant Biology</i> , 2006 , 32, 1107-1121	2.7	59
131	Evaluation of models of leaf water 18O enrichment using measurements of spatial patterns of vein xylem water, leaf water and dry matter in maize leaves. <i>Plant, Cell and Environment</i> , 2003 , 26, 1479-1495	8.4	58
130	Foliar stage in wheat correlates better to photothermal time than to thermal time. <i>Plant, Cell and Environment</i> , 1989 , 12, 235-247	8.4	58
129	On the extent of genetic variation for transpiration efficiency in sorghum. <i>Australian Journal of Agricultural Research</i> , 1997 , 48, 649		56
128	Playing-off the negative grain yield response of dryland wheat to nitrogen fertiliser III. The influence of water deficit and heat shock. <i>Australian Journal of Agricultural Research</i> , 1998 , 49, 1095		56
127	Inheritance of Carbon Isotope Discrimination in Bread Wheat (<i>Triticum Aestivum</i> L.). <i>Euphytica</i> , 2006 , 150, 97-106	2.1	55
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