

David T Tissue

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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.

251
papers

13,586
citations

64
h-index

107
g-index

271
ext. papers

16,365
ext. citations

6.7
avg, IF

6.24
L-index

#	Paper	IF	Citations
251	Precipitation pulses and carbon fluxes in semiarid and arid ecosystems. <i>Oecologia</i> , 2004 , 141, 254-68	2.9	815
250	Convergence across biomes to a common rain-use efficiency. <i>Nature</i> , 2004 , 429, 651-4	50.4	786
249	Assessing the Response of Terrestrial Ecosystems to Potential Changes in Precipitation. <i>BioScience</i> , 2003 , 53, 941	5.7	591
248	A multi-species synthesis of physiological mechanisms in drought-induced tree mortality. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1285-1291	12.3	469
247	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
246	Drought response strategies define the relative contributions of hydraulic dysfunction and carbohydrate depletion during tree mortality. <i>New Phytologist</i> , 2013 , 197, 862-872	9.8	289
245	Optimal stomatal behaviour around the world. <i>Nature Climate Change</i> , 2015 , 5, 459-464	21.4	264
244	Sensitivity of plants to changing atmospheric CO2 concentration: from the geological past to the next century. <i>New Phytologist</i> , 2013 , 197, 1077-1094	9.8	256
243	Response of Eriophorum Vaginatum to Elevated CO ₂ and Temperature in the Alaskan Tussock Tundra. <i>Ecology</i> , 1987 , 68, 401-410	4.6	246
242	Long-term effects of elevated CO ₂ and nutrients on photosynthesis and rubisco in loblolly pine seedlings. <i>Plant, Cell and Environment</i> , 1993 , 16, 859-865	8.4	228
241	Quantifying ecological memory in plant and ecosystem processes. <i>Ecology Letters</i> , 2015 , 18, 221-35	10	212
240	Transient nature of CO ₂ fertilization in Arctic tundra. <i>Nature</i> , 1994 , 371, 500-503	50.4	204
239	Atmospheric CO ₂ enrichment increases growth and photosynthesis of Pinus taeda: a 4 year experiment in the field. <i>Plant, Cell and Environment</i> , 1997 , 20, 1123-1134	8.4	193
238	Linking microbial community structure and function to seasonal differences in soil moisture and temperature in a Chihuahuan desert grassland. <i>Microbial Ecology</i> , 2009 , 58, 827-42	4.4	157
237	Comparative responses of model C3 and C4 plants to drought in low and elevated CO ₂ . <i>Global Change Biology</i> , 1999 , 5, 857-867	11.4	137
236	Non-structural carbohydrates in woody plants compared among laboratories. <i>Tree Physiology</i> , 2015 , 35, 1146-65	4.2	133
235	Impacts of drought on leaf respiration in darkness and light in Eucalyptus saligna exposed to industrial-age atmospheric CO ₂ and growth temperature. <i>New Phytologist</i> , 2011 , 190, 1003-1018	9.8	127

234	Trees tolerate an extreme heatwave via sustained transpirational cooling and increased leaf thermal tolerance. <i>Global Change Biology</i> , 2018 , 24, 2390-2402	11.4	126
233	Soil microbial responses to temporal variations of moisture and temperature in a chihuahuan desert grassland. <i>Microbial Ecology</i> , 2008 , 56, 153-67	4.4	122
232	Environmental and stomatal control of photosynthetic enhancement in the canopy of a sweetgum (<i>Liquidambar styraciflua</i> L.) plantation during 3 years of CO ₂ enrichment. <i>Plant, Cell and Environment</i> , 2002 , 25, 379-393	8.4	114
231	Physiology and proteomics of the water-deficit stress response in three contrasting peanut genotypes. <i>Plant, Cell and Environment</i> , 2009 , 32, 380-407	8.4	112
230	Effects of low and elevated CO on C and C annuals : II. Photosynthesis and leaf biochemistry. <i>Oecologia</i> , 1995 , 101, 21-28	2.9	108
229	Effects of low and elevated CO on C and C annuals : I. Growth and biomass allocation. <i>Oecologia</i> , 1995 , 101, 13-20	2.9	105
228	Acclimation and adaptation components of the temperature dependence of plant photosynthesis at the global scale. <i>New Phytologist</i> , 2019 , 222, 768-784	9.8	99
227	Precipitation timing and magnitude differentially affect aboveground annual net primary productivity in three perennial species in a Chihuahuan Desert grassland. <i>New Phytologist</i> , 2009 , 181, 230-242	9.8	98
226	Exposure to preindustrial, current and future atmospheric CO ₂ and temperature differentially affects growth and photosynthesis in Eucalyptus. <i>Global Change Biology</i> , 2010 , 16, 303-319	11.4	97
225	Drought and resprouting plants. <i>New Phytologist</i> , 2015 , 206, 583-9	9.8	96
224	Whole-tree chambers for elevated atmospheric CO ₂ experimentation and tree scale flux measurements in south-eastern Australia: The Hawkesbury Forest Experiment. <i>Agricultural and Forest Meteorology</i> , 2010 , 150, 941-951	5.8	96
223	Plant growth in elevated CO ₂ alters mitochondrial number and chloroplast fine structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 2473-8	11.5	96
222	Photosynthetic adjustment in field-grown ponderosa pine trees after six years of exposure to elevated CO ₂ . <i>Tree Physiology</i> , 1999 , 19, 221-228	4.2	92
221	The capacity to cope with climate warming declines from temperate to tropical latitudes in two widely distributed Eucalyptus species. <i>Global Change Biology</i> , 2015 , 21, 459-72	11.4	91
220	Soil microbial and nutrient responses to 7 years of seasonally altered precipitation in a Chihuahuan Desert grassland. <i>Global Change Biology</i> , 2014 , 20, 1657-73	11.4	91
219	Elevated [CO ₂] does not ameliorate the negative effects of elevated temperature on drought-induced mortality in Eucalyptus radiata seedlings. <i>Plant, Cell and Environment</i> , 2014 , 37, 1598-613	8.4	90
218	BAAD: a Biomass And Allometry Database for woody plants. <i>Ecology</i> , 2015 , 96, 1445-1445	4.6	89
217	The temperature responses of soil respiration in deserts: a seven desert synthesis. <i>Biogeochemistry</i> , 2011 , 103, 71-90	3.8	84

216	The peaked response of transpiration rate to vapour pressure deficit in field conditions can be explained by the temperature optimum of photosynthesis. <i>Agricultural and Forest Meteorology</i> , 2014 , 189-190, 2-10	5.8	83
215	Co-ordination of growth, gas exchange and hydraulics define the carbon safety margin in tree species with contrasting drought strategies. <i>Tree Physiology</i> , 2014 , 34, 443-58	4.2	83
214	Rates of nocturnal transpiration in two evergreen temperate woodland species with differing water-use strategies. <i>Tree Physiology</i> , 2010 , 30, 988-1000	4.2	81
213	The photosynthesis-leaf nitrogen relationship at ambient and elevated atmospheric carbon dioxide: a meta-analysis. <i>Global Change Biology</i> , 1999 , 5, 331-346	11.4	81
212	Growth and photosynthesis of loblolly pine (<i>Pinus taeda</i>) after exposure to elevated CO ₂ for 19 months in the field. <i>Tree Physiology</i> , 1996 , 16, 49-59	4.2	81
211	Nocturnal stomatal conductance responses to rising [CO ₂], temperature and drought. <i>New Phytologist</i> , 2012 , 193, 929-938	9.8	80
210	The onset of photosynthetic acclimation to elevated CO ₂ partial pressure in field-grown <i>Pinus radiata</i> D. Don. after 4 years. <i>Plant, Cell and Environment</i> , 2000 , 23, 1089-1098	8.4	79
209	Differential daytime and night-time stomatal behavior in plants from North American deserts. <i>New Phytologist</i> , 2012 , 194, 464-476	9.8	78
208	Photosynthetic responses of two eucalypts to industrial-age changes in atmospheric [CO ₂] and temperature. <i>Plant, Cell and Environment</i> , 2010 , 33, 1671-81	8.4	78
207	Photosynthetic acclimation to long-term exposure to elevated CO ₂ concentration in <i>Pinus radiata</i> D. Don. is related to age of needles. <i>Plant, Cell and Environment</i> , 1998 , 21, 1019-1028	8.4	78
206	Inter- and intra-specific variation in nocturnal water transport in <i>Eucalyptus</i> . <i>Tree Physiology</i> , 2010 , 30, 586-96	4.2	76
205	Leaf respiration at different canopy positions in sweetgum (<i>Liquidambar styraciflua</i>) grown in ambient and elevated concentrations of carbon dioxide in the field. <i>Tree Physiology</i> , 2002 , 22, 1157-66	4.2	76
204	Tree hydraulic traits are coordinated and strongly linked to climate-of-origin across a rainfall gradient. <i>Plant, Cell and Environment</i> , 2018 , 41, 646-660	8.4	75
203	Response of total night-time respiration to differences in total daily photosynthesis for leaves in a <i>Quercus rubra</i> L. canopy: implications for modelling canopy CO ₂ exchange. <i>Global Change Biology</i> , 2004 , 10, 925-938	11.4	75
202	Effects of elevated atmospheric CO ₂ concentration on leaf dark respiration of <i>Xanthium strumarium</i> in light and in darkness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 2479-84	11.5	75
201	Light interception efficiency explained by two simple variables: a test using a diversity of small- to medium-sized woody plants. <i>New Phytologist</i> , 2012 , 193, 397-408	9.8	74
200	Sap flow rates and sapwood density are critical factors in within- and between-tree variation in CO ₂ efflux from stems of mature <i>Dacrydium cupressinum</i> trees. <i>New Phytologist</i> , 2005 , 167, 815-28	9.8	74
199	Seasonal response of photosynthesis to elevated CO ₂ in loblolly pine (<i>Pinus taeda</i> L.) over two growing seasons. <i>Global Change Biology</i> , 1996 , 2, 103-114	11.4	73

198	Effects of long-term elevated [CO ₂] from natural CO ₂ springs on <i>Nardus stricta</i> : photosynthesis, biochemistry, growth and phenology. <i>Plant, Cell and Environment</i> , 1998 , 21, 417-425	8.4	70
197	Effects of an increase in summer precipitation on leaf, soil, and ecosystem fluxes of CO ₂ and H ₂ O in a sotol grassland in Big Bend National Park, Texas. <i>Oecologia</i> , 2007 , 151, 704-18	2.9	70
196	Scaling foliar respiration in two contrasting forest canopies. <i>Functional Ecology</i> , 2003 , 17, 101-114	5.6	69
195	Effects of elevated atmospheric [CO ₂] on instantaneous transpiration efficiency at leaf and canopy scales in <i>Eucalyptus saligna</i> . <i>Global Change Biology</i> , 2012 , 18, 585-595	11.4	68
194	Carbon dynamics of eucalypt seedlings exposed to progressive drought in elevated [CO ₂] and elevated temperature. <i>Tree Physiology</i> , 2013 , 33, 779-92	4.2	68
193	Response of <i>Xanthium strumarium</i> leaf respiration in the light to elevated CO ₂ concentration, nitrogen availability and temperature. <i>New Phytologist</i> , 2004 , 162, 377-386	9.8	68
192	Genetic variation in circadian regulation of nocturnal stomatal conductance enhances carbon assimilation and growth. <i>Plant, Cell and Environment</i> , 2016 , 39, 3-11	8.4	67
191	Consequences of nocturnal water loss: a synthesis of regulating factors and implications for capacitance, embolism and use in models. <i>Tree Physiology</i> , 2014 , 34, 1047-55	4.2	66
190	Seasonal acclimation of leaf respiration in <i>Eucalyptus saligna</i> trees: impacts of elevated atmospheric CO ₂ and summer drought. <i>Global Change Biology</i> , 2011 , 17, 1560-1576	11.4	64
189	Forest fine-root production and nitrogen use under elevated CO ₂ : contrasting responses in evergreen and deciduous trees explained by a common principle. <i>Global Change Biology</i> , 2009 , 15, 132-144	11.4	64
188	Effects of lifelong [CO ₂] enrichment on carboxylation and light utilization of <i>Quercus pubescens</i> Willd. examined with gas exchange, biochemistry and optical techniques. <i>Plant, Cell and Environment</i> , 2000 , 23, 1353-1362	8.4	64
187	Convergent acclimation of leaf photosynthesis and respiration to prevailing ambient temperatures under current and warmer climates in <i>Eucalyptus tereticornis</i> . <i>New Phytologist</i> , 2016 , 212, 354-67	9.8	64
186	Photosynthesis and Seed Production under Water-Deficit Conditions in Transgenic Tobacco Plants That Overexpress an Arabidopsis Ascorbate Peroxidase Gene. <i>Crop Science</i> , 2003 , 43, 1477-1483	2.4	63
185	Age-related decline of stand biomass accumulation is primarily due to mortality and not to reduction in NPP associated with individual tree physiology, tree growth or stand structure in a <i>Quercus</i> -dominated forest. <i>Journal of Ecology</i> , 2012 , 100, 428-440	6	62
184	Persistent stimulation of photosynthesis by elevated CO ₂ in a sweetgum (<i>Liquidambar styraciflua</i>) forest stand. <i>New Phytologist</i> , 2004 , 162, 343-354	9.8	62
183	Nitrogenase activity and N fixation are stimulated by elevated CO in a tropical N-fixing tree. <i>Oecologia</i> , 1996 , 109, 28-33	2.9	61
182	Trait selection and community weighting are key to understanding ecosystem responses to changing precipitation regimes. <i>Functional Ecology</i> , 2018 , 32, 1746-1756	5.6	59
181	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

180	An empirical method that separates irreversible stem radial growth from bark water content changes in trees: theory and case studies. <i>Plant, Cell and Environment</i> , 2017 , 40, 290-303	8.4	58
179	Radiative transfer and carbon assimilation in relation to canopy architecture, foliage area distribution and clumping in a mature temperate rainforest canopy in New Zealand. <i>Agricultural and Forest Meteorology</i> , 2005 , 135, 326-339	5.8	57
178	Drought responses of two gymnosperm species with contrasting stomatal regulation strategies under elevated [CO ₂] and temperature. <i>Tree Physiology</i> , 2015 , 35, 756-70	4.2	56
177	Stomatal and non-stomatal limitations of photosynthesis for four tree species under drought: A comparison of model formulations. <i>Agricultural and Forest Meteorology</i> , 2017 , 247, 454-466	5.8	56
176	Utilizing intraspecific variation in phenotypic plasticity to bolster agricultural and forest productivity under climate change. <i>Plant, Cell and Environment</i> , 2015 , 38, 1752-64	8.4	55
175	Light inhibition of leaf respiration in field-grown <i>Eucalyptus saligna</i> in whole-tree chambers under elevated atmospheric CO ₂ and summer drought. <i>Plant, Cell and Environment</i> , 2012 , 35, 966-81	8.4	55
174	Effects of age and ontogeny on photosynthetic responses of a determinate annual plant to elevated CO ₂ concentrations. <i>Plant, Cell and Environment</i> , 2002 , 25, 359-368	8.4	53
173	Respiration characteristics in temperate rainforest tree species differ along a long-term soil-development chronosequence. <i>Oecologia</i> , 2005 , 143, 271-9	2.9	53
172	An ecoclimatic framework for evaluating the resilience of vegetation to water deficit. <i>Global Change Biology</i> , 2016 , 22, 1677-89	11.4	53
171	Photosynthesis of C ₃ , C ₃ -C ₄ , and C ₄ grasses at glacial CO ₂ . <i>Journal of Experimental Botany</i> , 2014 , 65, 3669-81	7	52
170	Photosynthesis and reflectance indices for rainforest species in ecosystems undergoing progression and retrogression along a soil fertility chronosequence in New Zealand. <i>Oecologia</i> , 2005 , 144, 233-44	2.9	52
169	Interactive direct and plant-mediated effects of elevated atmospheric [CO ₂] and temperature on a eucalypt-feeding insect herbivore. <i>Global Change Biology</i> , 2013 , 19, 1407-16	11.4	49
168	Elevated carbon dioxide does not affect average canopy stomatal conductance of <i>Pinus taeda</i> L. <i>Oecologia</i> , 1998 , 117, 47-52	2.9	48
167	Photosynthetic responses of cottonwood seedlings grown in glacial through future atmospheric [CO ₂] vary with phosphorus supply. <i>Tree Physiology</i> , 2010 , 30, 1361-72	4.2	46
166	Photosynthetic characteristics in canopies of <i>Quercus rubra</i> , <i>Quercus prinus</i> and <i>Acer rubrum</i> differ in response to soil water availability. <i>Oecologia</i> , 2002 , 130, 515-524	2.9	46
165	Identifying areas at risk of drought-induced tree mortality across South-Eastern Australia. <i>Global Change Biology</i> , 2020 , 26, 5716-5733	11.4	45
164	Phosphorus supply drives nonlinear responses of cottonwood (<i>Populus deltoides</i>) to increases in CO ₂ concentration from glacial to future concentrations. <i>New Phytologist</i> , 2010 , 187, 438-448	9.8	45
163	The contribution of bryophytes to the carbon exchange for a temperate rainforest. <i>Global Change Biology</i> , 2003 , 9, 1158-1170	11.4	45

162	Rooting depth explains [CO ₂] x drought interaction in <i>Eucalyptus saligna</i> . <i>Tree Physiology</i> , 2011 , 31, 922-931	4.1	44
161	Nocturnal warming increases photosynthesis at elevated CO ₂ partial pressure in <i>Populus deltoides</i> . <i>New Phytologist</i> , 2004 , 161, 819-826	9.8	43
160	Carbon dioxide stimulation of photosynthesis in <i>Liquidambar styraciflua</i> is not sustained during a 12-year field experiment. <i>AoB PLANTS</i> , 2014 , 7,	2.9	41
159	Woody clockworks: circadian regulation of night-time water use in <i>Eucalyptus globulus</i> . <i>New Phytologist</i> , 2013 , 200, 743-752	9.8	41
158	Drought response strategies and hydraulic traits contribute to mechanistic understanding of plant dry-down to hydraulic failure. <i>Tree Physiology</i> , 2019 , 39, 910-924	4.2	40
157	Coordination between leaf, stem, and root hydraulics and gas exchange in three arid-zone angiosperms during severe drought and recovery. <i>Plant, Cell and Environment</i> , 2018 , 41, 2869-2881	8.4	39
156	Analysis of the growth of rimu (<i>Dacrydium cupressinum</i>) in South Westland, New Zealand, using process-based simulation models. <i>International Journal of Biometeorology</i> , 2002 , 46, 66-75	3.7	39
155	Capacity of old trees to respond to environmental change. <i>Journal of Integrative Plant Biology</i> , 2008 , 50, 1355-64	8.3	38
154	A hierarchical Bayesian approach for estimation of photosynthetic parameters of C(3) plants. <i>Plant, Cell and Environment</i> , 2009 , 32, 1695-709	8.4	37
153	Leaf photosynthesis, respiration and stomatal conductance in six <i>Eucalyptus</i> species native to mesic and xeric environments growing in a common garden. <i>Tree Physiology</i> , 2011 , 31, 997-1006	4.2	37
152	Continuous light may induce photosynthetic downregulation in onion: consequences for growth and biomass partitioning. <i>Physiologia Plantarum</i> , 2005 , 125, 235-246	4.6	37
151	Leaf dark respiration as a function of canopy position in <i>Nothofagus fusca</i> trees grown at ambient and elevated CO ₂ partial pressures for 5 years. <i>Functional Ecology</i> , 2001 , 15, 497-505	5.6	37
150	Genetic adaptation and phenotypic plasticity contribute to greater leaf hydraulic tolerance in response to drought in warmer climates. <i>Tree Physiology</i> , 2017 , 37, 583-592	4.2	35
149	Leaf structural characteristics are less important than leaf chemical properties in determining the response of leaf mass per area and photosynthesis of <i>Eucalyptus saligna</i> to industrial-age changes in [CO ₂] and temperature. <i>Journal of Experimental Botany</i> , 2012 , 63, 5829-41	7	35
148	Resource pulses in arid environments - patterns of rain, patterns of life. <i>New Phytologist</i> , 2003 , 157, 171-183	4.3	35
147	Precipitation magnitude and timing differentially affect species richness and plant density in the sotol grassland of the Chihuahuan Desert. <i>Oecologia</i> , 2010 , 162, 185-97	2.9	34
146	Stomatal and non-stomatal limitations to photosynthesis in four tree species in a temperate rainforest dominated by <i>Dacrydium cupressinum</i> in New Zealand. <i>Tree Physiology</i> , 2005 , 25, 447-56	4.2	34
145	Interactive effects of elevated CO ₂ and drought on nocturnal water fluxes in <i>Eucalyptus saligna</i> . <i>Tree Physiology</i> , 2011 , 31, 932-44	4.2	33

144	Elevated CO ₂ did not affect the hydrological balance of a mature native Eucalyptus woodland. <i>Global Change Biology</i> , 2018 , 24, 3010-3024	11.4	32
143	Responses of the soil microbial community to nitrogen fertilizer regimes and historical exposure to extreme weather events: Flooding or prolonged-drought. <i>Soil Biology and Biochemistry</i> , 2018 , 118, 227-238	7.5	32
142	Leaf structural responses to pre-industrial, current and elevated atmospheric [CO ₂] and temperature affect leaf function in Eucalyptus sideroxylon. <i>Functional Plant Biology</i> , 2012 , 39, 285-296	2.7	32
141	Physiological responses of two contrasting desert plant species to precipitation variability are differentially regulated by soil moisture and nitrogen dynamics. <i>Global Change Biology</i> , 2009 , 15, 1214-1229	11.4	32
140	Quantifying the response of photosynthesis to changes in leaf nitrogen content and leaf mass per area in plants grown under atmospheric CO ₂ enrichment. <i>Plant, Cell and Environment</i> , 1999 , 22, 1109-1119	8.4	32
139	Drought [CO ₂] interactions in trees: a test of the low-intercellular CO ₂ concentration (C _i) mechanism. <i>New Phytologist</i> , 2016 , 209, 1600-12	9.8	32
138	Assessing the potential functions of nocturnal stomatal conductance in C ₃ and C ₄ plants. <i>New Phytologist</i> , 2019 , 223, 1696-1706	9.8	31
137	Near-optimal response of instantaneous transpiration efficiency to vapour pressure deficit, temperature and [CO ₂] in cotton (<i>Gossypium hirsutum</i> L.). <i>Agricultural and Forest Meteorology</i> , 2013 , 168, 168-176	5.8	31
136	Sensitivity of leaf photosynthesis to CO ₂ concentration is an invariant function for C ₃ plants: A test with experimental data and global applications. <i>Global Biogeochemical Cycles</i> , 1996 , 10, 209-222	5.9	31
135	Primed acclimation of cultivated peanut (<i>Arachis hypogaea</i> L.) through the use of deficit irrigation timed to crop developmental periods. <i>Agricultural Water Management</i> , 2012 , 113, 85-95	5.9	30
134	DRI-Grass: A New Experimental Platform for Addressing Grassland Ecosystem Responses to Future Precipitation Scenarios in South-East Australia. <i>Frontiers in Plant Science</i> , 2016 , 7, 1373	6.2	30
133	Adaptation and acclimation both influence photosynthetic and respiratory temperature responses in <i>Corymbia calophylla</i> . <i>Tree Physiology</i> , 2017 , 37, 1095-1112	4.2	29
132	Plant functional traits differ in adaptability and are predicted to be differentially affected by climate change. <i>Ecology and Evolution</i> , 2020 , 10, 232-248	2.8	28
131	Desiccation time during drought is highly predictable across species of Eucalyptus from contrasting climates. <i>New Phytologist</i> , 2019 , 224, 632-643	9.8	28
130	Industrial-age changes in atmospheric [CO ₂] and temperature differentially alter responses of faster- and slower-growing Eucalyptus seedlings to short-term drought. <i>Tree Physiology</i> , 2013 , 33, 475-488	4.2	28
129	Soil phosphorous and endogenous rhythms exert a larger impact than CO ₂ or temperature on nocturnal stomatal conductance in Eucalyptus tereticornis. <i>Tree Physiology</i> , 2013 , 33, 1206-15	4.2	28
128	Leaf photosynthetic, economics and hydraulic traits are decoupled among genotypes of a widespread species of eucalypt grown under ambient and elevated CO ₂ . <i>Functional Ecology</i> , 2016 , 30, 1491-1500	5.6	27
127	Flooding and prolonged drought have differential legacy impacts on soil nitrogen cycling, microbial communities and plant productivity. <i>Plant and Soil</i> , 2018 , 431, 371-387	4.2	27

126	Response of <i>Eriophorum vaginatum</i> to CO ₂ enrichment at different soil temperatures: effects on growth, root respiration and PO ₄ ³⁻ uptake kinetics. <i>New Phytologist</i> , 1996 , 133, 423-430	9.8	27
125	Assessing community and ecosystem sensitivity to climate change toward a more comparative approach. <i>Journal of Vegetation Science</i> , 2017 , 28, 235-237	3.1	26
124	Range size and growth temperature influence <i>Eucalyptus</i> species responses to an experimental heatwave. <i>Global Change Biology</i> , 2019 , 25, 1665-1684	11.4	26
123	Effects of leaf age and tree size on stomatal and mesophyll limitations to photosynthesis in mountain beech (<i>Nothofagus solandrii</i> var. <i>cliffortioides</i>). <i>Tree Physiology</i> , 2011 , 31, 985-96	4.2	26
122	Comparison of spectrophotometric and radioisotopic methods for the assay of Rubisco in ozone-treated plants. <i>Physiologia Plantarum</i> , 1997 , 101, 398-404	4.6	26
121	Impact of eastern dwarf mistletoe (<i>Arceuthobium pusillum</i>) infection on the needles of red spruce (<i>Picea rubens</i>) and white spruce (<i>Picea glauca</i>): oxygen exchange, morphology and composition. <i>Tree Physiology</i> , 2006 , 26, 1325-32	4.2	26
120	Xylem embolism in leaves does not occur with open stomata: evidence from direct observations using the optical visualization technique. <i>Journal of Experimental Botany</i> , 2020 , 71, 1151-1159	7	26
119	Variations in nitrogen use efficiency reflect the biochemical subtype while variations in water use efficiency reflect the evolutionary lineage of C ₄ grasses at inter-glacial CO ₂ . <i>Plant, Cell and Environment</i> , 2016 , 39, 514-26	8.4	26
118	Intraspecific variation in juvenile tree growth under elevated CO ₂ alone and with O ₃ : a meta-analysis. <i>Tree Physiology</i> , 2016 , 36, 682-93	4.2	26
117	A common thermal niche among geographically diverse populations of the widely distributed tree species <i>Eucalyptus tereticornis</i> : No evidence for adaptation to climate-of-origin. <i>Global Change Biology</i> , 2017 , 23, 5069-5082	11.4	25
116	More than iso/anisohydry: Hydroscares integrate plant water use and drought tolerance traits in 10 eucalypt species from contrasting climates. <i>Functional Ecology</i> , 2019 , 33, 1035-1049	5.6	25
115	Drought increases heat tolerance of leaf respiration in <i>Eucalyptus globulus</i> saplings grown under both ambient and elevated atmospheric [CO ₂] and temperature. <i>Journal of Experimental Botany</i> , 2014 , 65, 6471-85	7	25
114	Thirsty roots and hungry leaves: unravelling the roles of carbon and water dynamics in tree mortality. <i>New Phytologist</i> , 2013 , 200, 294-297	9.8	25
113	Reductions in daily soil temperature variability increase soil microbial biomass C and decrease soil N availability in the Chihuahuan Desert: potential implications for ecosystem C and N fluxes. <i>Global Change Biology</i> , 2011 , 17, 3564-3576	11.4	25
112	Photosynthetic Characteristics of Eastern Dwarf Mistletoe (<i>Arceuthobium pusillum</i> Peck) and its Effects on the Needles of Host White Spruce (<i>Picea glauca</i> [Moench] Voss). <i>Plant Biology</i> , 2002 , 4, 740-745	2.7	25
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110	Circadian rhythms have significant effects on leaf-to-canopy scale gas exchange under field conditions. <i>GigaScience</i> , 2016 , 5, 43	7.6	24
109	CO ₂ and temperature effects on morphological and physiological traits affecting risk of drought-induced mortality. <i>Tree Physiology</i> , 2018 , 38, 1138-1151	4.2	23

108	Impacts of waterlogging on soil nitrification and ammonia-oxidizing communities in farming system. <i>Plant and Soil</i> , 2018 , 426, 299-311	4.2	23
107	Altered leaf and root emissions from onion (<i>Allium cepa</i> L.) grown under elevated CO ₂ conditions. <i>Environmental and Experimental Botany</i> , 2004 , 51, 273-280	5.9	23
106	Parent-ramet connections in <i>Agave deserti</i> : influences of carbohydrates on growth. <i>Oecologia</i> , 1988 , 75, 266-271	2.9	23
105	Traits and trade-offs in whole-tree hydraulic architecture along the vertical axis of <i>Eucalyptus grandis</i> . <i>Annals of Botany</i> , 2018 , 121, 129-141	4.1	22
104	Diel water movement between parenchyma and chlorenchyma of two desert CAM plants under dry and wet conditions. <i>Plant, Cell and Environment</i> , 1991 , 14, 407-413	8.4	22
103	Effects of elevated temperature and elevated CO on soil nitrification and ammonia-oxidizing microbial communities in field-grown crop. <i>Science of the Total Environment</i> , 2019 , 675, 81-89	10.2	21
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101	Water, nitrogen and phosphorus use efficiencies of four tree species in response to variable water and nutrient supply. <i>Plant and Soil</i> , 2016 , 406, 187-199	4.2	21
100	Maintenance of C sinks sustains enhanced C assimilation during long-term exposure to elevated [CO ₂] in Mojave Desert shrubs. <i>Oecologia</i> , 2011 , 167, 339-54	2.9	20
99	Silicon deposition on guard cells increases stomatal sensitivity as mediated by K efflux and consequently reduces stomatal conductance. <i>Physiologia Plantarum</i> , 2021 , 171, 358-370	4.6	20
98	Warming alters the positive impact of elevated CO concentration on cotton growth and physiology during soil water deficit. <i>Functional Plant Biology</i> , 2017 , 44, 267-278	2.7	19
97	Leaf-age dependent response of carotenoid accumulation to elevated CO in <i>Arabidopsis</i> . <i>Archives of Biochemistry and Biophysics</i> , 2018 , 647, 67-75	4.1	19
96	PHOTOSYNTHESIS AND CARBON ALLOCATION IN <i>TIPULARIA DISCOLOR</i> (ORCHIDACEAE), A WINTERGREEN UNDERSTORY HERB. <i>American Journal of Botany</i> , 1995 , 82, 1249-1256	2.7	19
95	Upside-down fluxes Down Under: CO ₂ ; net sink in winter and net source in summer in a temperate evergreen broadleaf forest. <i>Biogeosciences</i> , 2018 , 15, 3703-3716	4.6	19
94	Endogenous circadian rhythms in pigment composition induce changes in photochemical efficiency in plant canopies. <i>Plant, Cell and Environment</i> , 2017 , 40, 1153-1162	8.4	18
93	<i>Panicum milioides</i> (C(3)-C(4)) does not have improved water or nitrogen economies relative to C(3) and C(4) congeners exposed to industrial-age climate change. <i>Journal of Experimental Botany</i> , 2011 , 62, 3223-34	7	18
92	Atmospheric CO ₂ enrichment alters energy assimilation, investment and allocation in <i>Xanthium strumarium</i> . <i>New Phytologist</i> , 2005 , 166, 513-23	9.8	18
91	Energy investment in leaves of red maple and co-occurring oaks within a forested watershed. <i>Tree Physiology</i> , 2002 , 22, 859-67	4.2	18

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89	Adaptive variation for growth and resistance to a novel pathogen along climatic gradients in a foundation tree. <i>Evolutionary Applications</i> , 2019 , 12, 1178-1190	4.8	17
88	Elevated temperature is more effective than elevated [CO ₂] in exposing genotypic variation in <i>Telopea speciosissima</i> growth plasticity: implications for woody plant populations under climate change. <i>Global Change Biology</i> , 2015 , 21, 3800-13	11.4	17
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83	Impact of eastern dwarf mistletoe (<i>Arceuthobium pusillum</i>) on host white spruce (<i>Picea glauca</i>) development, growth and performance across multiple scales. <i>Physiologia Plantarum</i> , 2013 , 147, 502-13	4.6	16
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81	Interactive effects of preindustrial, current and future atmospheric CO ₂ concentrations and temperature on soil fungi associated with two Eucalyptus species. <i>FEMS Microbiology Ecology</i> , 2013 , 83, 425-37	4.3	15
80	Variations in dark respiration and mitochondrial numbers within needles of <i>Pinus radiata</i> grown in ambient or elevated CO ₂ partial pressure. <i>Tree Physiology</i> , 2004 , 24, 347-53	4.2	15
79	Flavonol content and composition of spring onions grown hydroponically or in potting soil. <i>Journal of Food Composition and Analysis</i> , 2005 , 18, 635-645	4.1	15
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61	Dry mass production, allocation patterns and water use efficiency of two conifers with different water use strategies under elevated [CO2], warming and drought conditions. <i>European Journal of Forest Research</i> , 2018 , 137, 605-618	2.7	11
60	Embolism recovery strategies and nocturnal water loss across species influenced by biogeographic origin. <i>Ecology and Evolution</i> , 2019 , 9, 5348-5361	2.8	10
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51	Light-altering cover materials and sustainable greenhouse production of vegetables: a review. <i>Plant Growth Regulation</i> , 2021 , 95, 1-17	3.2	8
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47	Sustainable Protected Cropping: A Case Study of Seasonal Impacts on Greenhouse Energy Consumption during Capsicum Production. <i>Energies</i> , 2020 , 13, 4468	3.1	6
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45	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021 , 8, 254	8.2	6
44	Effects of a Heat Wave on Nocturnal Stomatal Conductance in <i>Eucalyptus camaldulensis</i> . <i>Forests</i> , 2018 , 9, 319	2.8	5
43	Allometric Estimates of Aboveground Biomass Using Cover and Height Are Improved by Increasing Specificity of Plant Functional Groups in Eastern Australian Rangelands. <i>Rangeland Ecology and Management</i> , 2020 , 73, 375-383	2.2	5
42	Temperature alters the response of hydraulic architecture to CO ₂ in cotton plants (<i>Gossypium hirsutum</i>). <i>Environmental and Experimental Botany</i> , 2020 , 172, 104004	5.9	5
41	Intra-specific trait variation remains hidden in the environment. <i>New Phytologist</i> , 2021 , 229, 1183-1185	9.8	5
40	Drought by CO interactions in trees: a test of the water savings mechanism. <i>New Phytologist</i> , 2021 , 230, 1421-1434	9.8	5
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34	Biomass, Flavonol Levels and Sensory Characteristics of <i>Allium</i> Cultivars Grown Hydroponically at Ambient and Elevated CO ₂ 2004 ,		4
33	Pastures and Climate Extremes: Impacts of warming and drought on the productivity and resilience of key pasture species in a field experiment		4
32	Physiological acclimation of a grass species occurs during sustained but not repeated drought events. <i>Environmental and Experimental Botany</i> , 2020 , 171, 103954	5.9	4
31	Impacts of growth temperature, water deficit and heatwaves on carbon assimilation and growth of cotton plants (<i>Gossypium hirsutum</i> L.). <i>Environmental and Experimental Botany</i> , 2020 , 179, 104204	5.9	4
30	Increasing aridity will not offset CO fertilization in fast-growing eucalypts with access to deep soil water. <i>Global Change Biology</i> , 2021 , 27, 2970-2990	11.4	4
29	Climate and stomatal traits drive covariation in nighttime stomatal conductance and daytime gas exchange rates in a widespread C grass. <i>New Phytologist</i> , 2021 , 229, 2020-2034	9.8	4
28	The decoupling between gas exchange and water potential of <i>Cinnamomum camphora</i> seedlings during drought recovery and its relation to ABA accumulation in leaves. <i>Journal of Plant Ecology</i> , 2020 , 13, 683-692	1.7	3
27	Circadian Regulation Does Not Optimize Stomatal Behaviour. <i>Plants</i> , 2020 , 9,	4.5	3
26	Smart glass impacts stomatal sensitivity of greenhouse <i>Capsicum</i> through altered light. <i>Journal of Experimental Botany</i> , 2021 , 72, 3235-3248	7	3
25	Drought tolerance traits do not vary across sites differing in water availability in <i>Banksia serrata</i> (Proteaceae). <i>Functional Plant Biology</i> , 2019 , 46, 624-633	2.7	2
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22	Long-term effects of 7-year warming experiment in the field on leaf hydraulic and economic traits of subtropical tree species. <i>Global Change Biology</i> , 2020 , 26, 7144-7157	11.4	2
21	Leaf silicification provides herbivore defence regardless of the extensive impacts of water stress. <i>Functional Ecology</i> , 2021 , 35, 1200-1211	5.6	2
20	Repeated extreme heatwaves result in higher leaf thermal tolerances and greater safety margins. <i>New Phytologist</i> , 2021 , 232, 1212-1225	9.8	2
19	Genomic constraints to drought adaptation		2

18	Comparison of spectrophotometric and radioisotopic methods for the assay of Rubisco in ozone-treated plants. <i>Physiologia Plantarum</i> , 1997 , 101, 398-404	4.6	1
17	Seasonal maintenance of leaf level carbon balance facilitated by thermal acclimation of leaf respiration but not photosynthesis in three angiosperm species. <i>Environmental and Experimental Botany</i> , 2022 , 195, 104781	5.9	1
16	Adaptive plasticity in plant traits increases time to hydraulic failure under drought in a foundation tree		1
15	Smart Film Impacts Stomatal Sensitivity of Greenhouse Capsicum Through Altered Light		1
14	Effects of elevated CO ₂ and warmer temperature on early season field-grown cotton in high-input systems. <i>Crop Science</i> , 2021 , 61, 657-671	2.4	1
13	AusTraits  curated plant trait database for the Australian flora		1
12	Mesophyll conductance in two cultivars of wheat grown in glacial to super-elevated CO ₂ concentrations. <i>Journal of Experimental Botany</i> , 2021 , 72, 7191-7202	7	1
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6	A foliar pigment-based bioassay for interrogating chloroplast signalling revealed that carotenoid isomerisation regulates chlorophyll abundance.. <i>Plant Methods</i> , 2022 , 18, 18	5.8	0
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4	Synthetic biology and opportunities within agricultural crops		0
3	Effect of elevated CO ₂ on peanut performance in a semi-arid production region. <i>Agricultural and Forest Meteorology</i> , 2021 , 308-309, 108599	5.8	
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