

Owen K Atkin

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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.

158
papers

13,047
citations

56
h-index

112
g-index

203
ext. papers

15,559
ext. citations

7
avg, IF

6.19
L-index

#	Paper	IF	Citations
158	TRY  global database of plant traits. <i>Global Change Biology</i> , 2011 , 17, 2905-2935	11.4	1623
157	Plant phenotypic plasticity in a changing climate. <i>Trends in Plant Science</i> , 2010 , 15, 684-92	13.1	1154
156	Thermal acclimation and the dynamic response of plant respiration to temperature. <i>Trends in Plant Science</i> , 2003 , 8, 343-51	13.1	870
155	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
154	The hot and the cold: unravelling the variable response of plant respiration to temperature. <i>Functional Plant Biology</i> , 2005 , 32, 87-105	2.7	371
153	The crucial role of plant mitochondria in orchestrating drought tolerance. <i>Annals of Botany</i> , 2009 , 103, 581-97	4.1	340
152	Response of root respiration to changes in temperature and its relevance to global warming. <i>New Phytologist</i> , 2000 , 147, 141-154	9.8	302
151	Simulated resilience of tropical rainforests to CO ₂ -induced climate change. <i>Nature Geoscience</i> , 2013 , 6, 268-273	18.3	293
150	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
149	Leaf respiration of snow gum in the light and dark. Interactions between temperature and irradiance. <i>Plant Physiology</i> , 2000 , 122, 915-23	6.6	226
148	Thermal acclimation of leaf and root respiration: an investigation comparing inherently fast- and slow-growing plant species. <i>Global Change Biology</i> , 2003 , 9, 895-910	11.4	208
147	Interdependence between chloroplasts and mitochondria in the light and the dark. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998 , 1366, 235-255	4.6	204
146	Acclimation of snow gum (<i>Eucalyptus pauciflora</i>) leaf respiration to seasonal and diurnal variations in temperature: the importance of changes in the capacity and temperature sensitivity of respiration. <i>Plant, Cell and Environment</i> , 2000 , 23, 15-26	8.4	193
145	Acclimation of photosynthesis and respiration is asynchronous in response to changes in temperature regardless of plant functional group. <i>New Phytologist</i> , 2007 , 176, 375-389	9.8	170
144	High thermal acclimation potential of both photosynthesis and respiration in two lowland <i>Plantago</i> species in contrast to an alpine congeneric. <i>Global Change Biology</i> , 2006 , 12, 500-515	11.4	168
143	Respiratory energy requirements of roots vary with the potential growth rate of a plant species. <i>Physiologia Plantarum</i> , 1991 , 83, 469-475	4.6	160
142	The art of growing plants for experimental purposes: a practical guide for the plant biologist. <i>Functional Plant Biology</i> , 2012 , 39, 821-838	2.7	144

141	Phenotypic plasticity and growth temperature: understanding interspecific variability. <i>Journal of Experimental Botany</i> , 2006 , 57, 267-81	7	142
140	Convergence in the temperature response of leaf respiration across biomes and plant functional types. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3832-7	11.5	139
139	Growth temperature influences the underlying components of relative growth rate: an investigation using inherently fast- and slow-growing plant species. <i>Plant, Cell and Environment</i> , 2002 , 25, 975-988	8.4	139
138	Non-structural carbohydrates in woody plants compared among laboratories. <i>Tree Physiology</i> , 2015 , 35, 1146-65	4.2	133
137	Respiration as a percentage of daily photosynthesis in whole plants is homeostatic at moderate, but not high, growth temperatures. <i>New Phytologist</i> , 2007 , 174, 367-380	9.8	130
136	Using temperature-dependent changes in leaf scaling relationships to quantitatively account for thermal acclimation of respiration in a coupled global climate-vegetation model. <i>Global Change Biology</i> , 2008 , 14, 2709-2726	11.4	128
135	Impacts of drought on leaf respiration in darkness and light in <i>Eucalyptus saligna</i> exposed to industrial-age atmospheric CO ₂ and growth temperature. <i>New Phytologist</i> , 2011 , 190, 1003-1018	9.8	127
134	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
133	Thermal limits of leaf metabolism across biomes. <i>Global Change Biology</i> , 2017 , 23, 209-223	11.4	126
132	Analysis of respiratory chain regulation in roots of soybean seedlings. <i>Plant Physiology</i> , 1998 , 117, 1083-836	8.3	125
131	Irradiance, temperature and rainfall influence leaf dark respiration in woody plants: evidence from comparisons across 20 sites. <i>New Phytologist</i> , 2006 , 169, 309-19	9.8	123
130	Relationship between the inhibition of leaf respiration by light and enhancement of leaf dark respiration following light treatment. <i>Functional Plant Biology</i> , 1998 , 25, 437	2.7	123
129	Mapping local and global variability in plant trait distributions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10937-E10946	11.5	103
128	Leaf Respiration in Light and Darkness (A Comparison of Slow- and Fast-Growing <i>Poa</i> Species). <i>Plant Physiology</i> , 1997 , 113, 961-965	6.6	96
127	Dynamic changes in the mitochondrial electron transport chain underpinning cold acclimation of leaf respiration. <i>Plant, Cell and Environment</i> , 2008 , 31, 1156-69	8.4	96
126	A test of the one-point method for estimating maximum carboxylation capacity from field-measured, light-saturated photosynthesis. <i>New Phytologist</i> , 2016 , 210, 1130-44	9.8	92
125	Leaf day respiration: low CO ₂ flux but high significance for metabolism and carbon balance. <i>New Phytologist</i> , 2017 , 216, 986-1001	9.8	91
124	Is shade beneficial for mediterranean shrubs experiencing periods of extreme drought and late-winter frosts?. <i>Annals of Botany</i> , 2008 , 102, 923-33	4.1	87

123	Heterogeneity of plant mitochondrial responses underpinning respiratory acclimation to the cold in <i>Arabidopsis thaliana</i> leaves. <i>Plant, Cell and Environment</i> , 2006 , 29, 940-9	8.4	87
122	Reassessing the nitrogen relations of Arctic plants: a mini-review. <i>Plant, Cell and Environment</i> , 1996 , 19, 695-704	8.4	82
121	Effect of Temperature on Rates of Alternative and Cytochrome Pathway Respiration and Their Relationship with the Redox Poise of the Quinone Pool. <i>Plant Physiology</i> , 2002 , 128, 212-222	6.6	81
120	Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information. <i>Geoscientific Model Development</i> , 2016 , 9, 2415-2440	6.3	79
119	High-resolution temperature responses of leaf respiration in snow gum (<i>Eucalyptus pauciflora</i>) reveal high-temperature limits to respiratory function. <i>Plant, Cell and Environment</i> , 2013 , 36, 1268-84	8.4	75
118	The response of fast- and slow-growing <i>Acacia</i> species to elevated atmospheric CO ₂ : an analysis of the underlying components of relative growth rate. <i>Oecologia</i> , 1999 , 120, 544-554	2.9	75
117	Regulation of root respiration in two species of <i>Plantago</i> that differ in relative growth rate: the effect of short- and long-term changes in temperature. <i>Plant, Cell and Environment</i> , 2002 , 25, 1501-1513	8.4	74
116	Respiratory Patterns in Roots in Relation to Their Functioning 2002 , 521-552		74
115	Altitudinal variation in leaf mass per unit area, leaf tissue density and foliar nitrogen and phosphorus content along an Amazon-Andes gradient in Peru. <i>Plant Ecology and Diversity</i> , 2009 , 2, 243-254	2.2	73
114	Temporal heterogeneity of cold acclimation phenotypes in <i>Arabidopsis</i> leaves. <i>Plant, Cell and Environment</i> , 2010 , 33, 244-58	8.4	68
113	Implications of improved representations of plant respiration in a changing climate. <i>Nature Communications</i> , 2017 , 8, 1602	17.4	67
112	Bringing the Kok effect to light: A review on the integration of daytime respiration and net ecosystem exchange. <i>Ecosphere</i> , 2013 , 4, art98	3.1	67
111	Response of Plant Respiration to Changes in Temperature: Mechanisms and Consequences of Variations in Q ₁₀ Values and Acclimation 2005 , 95-135		66
110	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
109	On the developmental dependence of leaf respiration: responses to short- and long-term changes in growth temperature. <i>American Journal of Botany</i> , 2006 , 93, 1633-9	2.7	64
108	The dependence of respiration on photosynthetic substrate supply and temperature: integrating leaf, soil and ecosystem measurements. <i>Global Change Biology</i> , 2006 , 12, 1954-1968	11.4	64
107	Does growth irradiance affect temperature dependence and thermal acclimation of leaf respiration? Insights from a Mediterranean tree with long-lived leaves. <i>Plant, Cell and Environment</i> , 2007 , 30, 820-33	8.4	63
106	Solar radiation and functional traits explain the decline of forest primary productivity along a tropical elevation gradient. <i>Ecology Letters</i> , 2017 , 20, 730-740	10	62

105	Leaf-level photosynthetic capacity in lowland Amazonian and high-elevation Andean tropical moist forests of Peru. <i>New Phytologist</i> , 2017 , 214, 1002-1018	9.8	62
104	Canopy position affects the relationships between leaf respiration and associated traits in a tropical rainforest in Far North Queensland. <i>Tree Physiology</i> , 2014 , 34, 564-84	4.2	62
103	Strong thermal acclimation of photosynthesis in tropical and temperate wet-forest tree species: the importance of altered Rubisco content. <i>Global Change Biology</i> , 2017 , 23, 2783-2800	11.4	59
102	Impact of temperature on the relationship between respiration and nitrogen concentration in roots: an analysis of scaling relationships, Q10 values and thermal acclimation ratios. <i>New Phytologist</i> , 2007 , 173, 110-20	9.8	56
101	Light inhibition of leaf respiration in field-grown Eucalyptus saligna 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
100	The contribution of roots and shoots to whole plant nitrate reduction in fast- and slow-growing grass species. <i>Journal of Experimental Botany</i> , 2002 , 53, 1635-42	7	55
99	Global convergence in leaf respiration from estimates of thermal acclimation across time and space. <i>New Phytologist</i> , 2015 , 207, 1026-37	9.8	54
98	Core principles which explain variation in respiration across biological scales. <i>New Phytologist</i> , 2019 , 222, 670-686	9.8	52
97	Mycorrhizal respiration: implications for global scaling relationships. <i>Trends in Plant Science</i> , 2008 , 13, 583-8	13.1	51
96	Analysis of differences in photosynthetic nitrogen use efficiency of alpine and lowland Poa species. <i>Oecologia</i> , 1999 , 120, 19-26	2.9	51
95	Variation in the components of relative growth rate in 10 Acacia species from contrasting environments. <i>Plant, Cell and Environment</i> , 1998 , 21, 1007-1017	8.4	48
94	Plasticity of photosynthetic heat tolerance in plants adapted to thermally contrasting biomes. <i>Plant, Cell and Environment</i> , 2018 , 41, 1251-1262	8.4	47
93	Respiration in Photosynthetic Cells: Gas Exchange Components, Interactions with Photorespiration and the Operation of Mitochondria in the Light 2005 , 43-61		47
92	Variation in Leaf Respiration Rates at Night Correlates with Carbohydrate and Amino Acid Supply. <i>Plant Physiology</i> , 2017 , 174, 2261-2273	6.6	44
91	Thermal acclimation of leaf dark respiration of beech seedlings experiencing summer drought in high and low light environments. <i>Tree Physiology</i> , 2010 , 30, 214-24	4.2	43
90	Drought-induced shoot dieback starts with massive root xylem embolism and variable depletion of nonstructural carbohydrates in seedlings of two tree species. <i>New Phytologist</i> , 2017 , 213, 597-610	9.8	42
89	A critique of the use of inhibitors to estimate partitioning of electrons between mitochondrial respiratory pathways in plants. <i>Physiologia Plantarum</i> , 1995 , 95, 523-532	4.6	41
88	Light inhibition of leaf respiration as soil fertility declines along a post-glacial chronosequence in New Zealand: an analysis using the Kok method. <i>Plant and Soil</i> , 2013 , 367, 163-182	4.2	39

87	Does the direct effect of atmospheric CO ₂ concentration on leaf respiration vary with temperature? Responses in two species of <i>Plantago</i> that differ in relative growth rate. <i>Physiologia Plantarum</i> , 2002 , 114, 57-64	4.6	39
86	Leaf waxes of slow-growing alpine and fast-growing lowland <i>Poa</i> species: inherent differences and responses to UV-B radiation. <i>Phytochemistry</i> , 1999 , 50, 571-580	4	38
85	Acclimation of leaf respiration consistent with optimal photosynthetic capacity. <i>Global Change Biology</i> , 2020 , 26, 2573	11.4	37
84	Xeml Lab: a tool that supports the design of experiments at a graphical interface and generates computer-readable metadata files, which capture information about genotypes, growth conditions, environmental perturbations and sampling strategy. <i>Plant, Cell and Environment</i> , 2009 , 32, 1185-200	8.4	37
83	A continental-scale assessment of variability in leaf traits: Within species, across sites and between seasons. <i>Functional Ecology</i> , 2018 , 32, 1492-1506	5.6	35
82	Contrasting leaf trait scaling relationships in tropical and temperate wet forest species. <i>Functional Ecology</i> , 2013 , 27, 522-534	5.6	34
81	The effect of root temperature on the induction of nitrate reductase activities and nitrogen uptake rates in arctic plant species. <i>Plant and Soil</i> , 1994 , 159, 187-197	4.2	34
80	Leaf respiration in darkness and in the light under pre-industrial, current and elevated atmospheric CO ₂ concentrations. <i>Plant Science</i> , 2014 , 226, 120-30	5.3	33
79	Homeostasis of respiration under drought and its important consequences for foliar carbon balance in a drier climate: insights from two contrasting <i>Acacia</i> species. <i>Functional Plant Biology</i> , 2010 , 37, 323	2.7	33
78	Transient shade and drought have divergent impacts on the temperature sensitivity of dark respiration in leaves of <i>Geum urbanum</i> . <i>Functional Plant Biology</i> , 2008 , 35, 1135-1146	2.7	33
77	Partitioning of Electrons between the Cytochrome and Alternative Pathways in Intact Roots. <i>Plant Physiology</i> , 1995 , 108, 1179-1183	6.6	33
76	Predicting dark respiration rates of wheat leaves from hyperspectral reflectance. <i>Plant, Cell and Environment</i> , 2019 , 42, 2133-2150	8.4	32
75	Temperature dependence of respiration in roots colonized by arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2009 , 182, 188-199	9.8	32
74	Exploring high temperature responses of photosynthesis and respiration to improve heat tolerance in wheat. <i>Journal of Experimental Botany</i> , 2019 , 70, 5051-5069	7	31
73	The relationship between the relative growth rate and nitrogen economy of alpine and lowland <i>Poa</i> species. <i>Plant, Cell and Environment</i> , 1996 , 19, 1324-1330	8.4	31
72	N ₂ fixation by <i>Acacia</i> species increases under elevated atmospheric CO ₂ . <i>Plant, Cell and Environment</i> , 2002 , 25, 567-579	8.4	30
71	Nitrogen and phosphorus availabilities interact to modulate leaf trait scaling relationships across six plant functional types in a controlled-environment study. <i>New Phytologist</i> , 2017 , 215, 992-1008	9.8	29
70	Differential physiological responses to environmental change promote woody shrub expansion. <i>Ecology and Evolution</i> , 2013 , 3, 1149-62	2.8	29

69	Seasonality of foliar respiration in two dominant plant species from the Arctic tundra: response to long-term warming and short-term temperature variability. <i>Functional Plant Biology</i> , 2014 , 41, 287-300	2.7	28
68	Range size and growth temperature influence Eucalyptus species responses to an experimental heatwave. <i>Global Change Biology</i> , 2019 , 25, 1665-1684	11.4	26
67	The combination of gas-phase fluorophore technology and automation to enable high-throughput analysis of plant respiration. <i>Plant Methods</i> , 2017 , 13, 16	5.8	25
66	Drought increases heat tolerance of leaf respiration in Eucalyptus globulus saplings grown under both ambient and elevated atmospheric [CO ₂] and temperature. <i>Journal of Experimental Botany</i> , 2014 , 65, 6471-85	7	25
65	Leaf- and cell-level carbon cycling responses to a nitrogen and phosphorus gradient in two Arctic tundra species. <i>American Journal of Botany</i> , 2012 , 99, 1702-14	2.7	25
64	A Comparison of the Respiratory Processes and Growth Rate of Selected Australian Alpine and Related Lowland Plant Species. <i>Functional Plant Biology</i> , 1990 , 17, 517	2.7	25
63	Traditional plant functional groups explain variation in economic but not size-related traits across the tundra biome. <i>Global Ecology and Biogeography</i> , 2019 , 28, 78-95	6.1	24
62	The validity of optimal leaf traits modelled on environmental conditions. <i>New Phytologist</i> , 2019 , 221, 1409-1423	9.8	24
61	Acclimation of light and dark respiration to experimental and seasonal warming are mediated by changes in leaf nitrogen in Eucalyptus globulus. <i>Tree Physiology</i> , 2017 , 37, 1069-1083	4.2	23
60	Diurnal and seasonal variation in light and dark respiration in field-grown Eucalyptus pauciflora. <i>Tree Physiology</i> , 2015 , 35, 840-9	4.2	23
59	Systemic low temperature signaling in Arabidopsis. <i>Plant and Cell Physiology</i> , 2010 , 51, 1488-98	4.9	23
58	The impact of elevated atmospheric CO ₂ and nitrate supply on growth, biomass allocation, nitrogen partitioning and N ₂ fixation of Acacia melanoxylon. <i>Functional Plant Biology</i> , 1999 , 26, 737	2.7	23
57	Light induction of alternative pathway capacity in leaf slices of Belgium endive. <i>Plant, Cell and Environment</i> , 1993 , 16, 231-235	8.4	23
56	Is resource allocation and grain yield of rice altered by inoculation with arbuscular mycorrhizal fungi?. <i>Journal of Plant Ecology</i> , 2015 , 8, 436-448	1.7	22
55	Temperature-dependent changes in respiration rates and redox poise of the ubiquinone pool in protoplasts and isolated mitochondria of potato leaves. <i>Physiologia Plantarum</i> , 2007 , 129, 175-184	4.6	22
54	Respiratory energy requirements of roots vary with the potential growth rate of a plant species. <i>Physiologia Plantarum</i> , 1991 , 83, 469-475	4.6	22
53	Tracking the origins of the Kok effect, 70 years after its discovery. <i>New Phytologist</i> , 2017 , 214, 506-510	9.8	21
52	Mesophyll conductance does not contribute to greater photosynthetic rate per unit nitrogen in temperate compared with tropical evergreen wet-forest tree leaves. <i>New Phytologist</i> , 2018 , 218, 492-503	9.8	21

51	Thermal acclimation of shoot respiration in an Arctic woody plant species subjected to 22 years of warming and altered nutrient supply. <i>Global Change Biology</i> , 2014 , 20, 2618-30	11.4	21
50	The ability of several high arctic plant species to utilize nitrate nitrogen under field conditions. <i>Oecologia</i> , 1993 , 96, 239-245	2.9	21
49	Macromolecular rate theory (MMRT) provides a thermodynamics rationale to underpin the convergent temperature response in plant leaf respiration. <i>Global Change Biology</i> , 2018 , 24, 1538-1547	11.4	21
48	Addressing Research Bottlenecks to Crop Productivity. <i>Trends in Plant Science</i> , 2021 , 26, 607-630	13.1	20
47	Thermal acclimation of leaf photosynthetic traits in an evergreen woodland, consistent with the coordination hypothesis. <i>Biogeosciences</i> , 2018 , 15, 3461-3474	4.6	20
46	Scaling leaf respiration with nitrogen and phosphorus in tropical forests across two continents. <i>New Phytologist</i> , 2017 , 214, 1064-1077	9.8	19
45	Trait convergence in photosynthetic nutrient-use efficiency along a 2-million year dune chronosequence in a global biodiversity hotspot. <i>Journal of Ecology</i> , 2019 , 107, 2006-2023	6	19
44	Robustness of trait connections across environmental gradients and growth forms. <i>Global Ecology and Biogeography</i> , 2019 , 28, 1806-1826	6.1	19
43	Effect of temperature on rates of alternative and cytochrome pathway respiration and their relationship with the redox poise of the quinone pool. <i>Plant Physiology</i> , 2002 , 128, 212-22	6.6	19
42	Variation in bulk-leaf C discrimination, leaf traits and water-use efficiency-trait relationships along a continental-scale climate gradient in Australia. <i>Global Change Biology</i> , 2018 , 24, 1186-1200	11.4	18
41	Impact of growth temperature on scaling relationships linking photosynthetic metabolism to leaf functional traits. <i>Functional Ecology</i> , 2010 , 24, 1181-1191	5.6	18
40	Thermal de-acclimation: how permanent are leaf phenotypes when cold-acclimated plants experience warming?. <i>Plant, Cell and Environment</i> , 2010 , 33, 1124-37	8.4	17
39	Relationship Between Soil Nitrogen and Floristic Variation in Late Snow Areas of the Kosciuszko Alpine Region [Australia].. <i>Australian Journal of Botany</i> , 1992 , 40, 139	1.2	16
38	Respiratory alternative oxidase responds to both low- and high-temperature stress in <i>Quercus rubra</i> leaves along an urban-rural gradient in New York. <i>Functional Ecology</i> , 2011 , 25, 1007-1017	5.6	15
37	Assessing the relationship between respiratory acclimation to the cold and photosystem II redox poise in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2007 , 30, 1513-22	8.4	15
36	Respiratory flexibility and efficiency are affected by simulated global change in Arctic plants. <i>New Phytologist</i> , 2013 , 197, 1161-1172	9.8	14
35	A field-compatible method for measuring alternative respiratory pathway activities in vivo using stable O ₁₅ isotopes. <i>Plant, Cell and Environment</i> , 2012 , 35, 1518-32	8.4	13
34	Source of nitrogen associated with recovery of relative growth rate in <i>Arabidopsis thaliana</i> acclimated to sustained cold treatment. <i>Plant, Cell and Environment</i> , 2015 , 38, 1023-34	8.4	12

33	A molecular approach to drought-induced reduction in leaf CO exchange in drought-resistant <i>Quercus ilex</i> . <i>Physiologia Plantarum</i> , 2018 , 162, 394-408	4.6	12
32	Modulation of respiratory metabolism in response to nutrient changes along a soil chronosequence. <i>Plant, Cell and Environment</i> , 2013 , 36, 1120-34	8.4	12
31	Climate-dependent variations in leaf respiration in a dry-land, low productivity Mediterranean forest: the importance of acclimation in both high-light and shaded habitats. <i>Functional Ecology</i> , 2007 , 22, 071117031343002-???	5.6	12
30	Contrasting responses by respiration to elevated CO in intact tissue and isolated mitochondria. <i>Functional Plant Biology</i> , 2007 , 34, 112-117	2.7	12
29	Calculation of the oxygen isotope discrimination factor for studying plant respiration. <i>Functional Plant Biology</i> , 1999 , 26, 773	2.7	12
28	Separating species and environmental determinants of leaf functional traits in temperate rainforest plants along a soil-development chronosequence. <i>Functional Plant Biology</i> , 2016 , 43, 751-765	2.7	12
27	Acclimation of leaf respiration temperature responses across thermally contrasting biomes. <i>New Phytologist</i> , 2021 , 229, 1312-1325	9.8	10
26	Diel- and temperature-driven variation of leaf dark respiration rates and metabolite levels in rice. <i>New Phytologist</i> , 2020 , 228, 56-69	9.8	9
25	Leaf trait variation is similar among genotypes of <i>Eucalyptus camaldulensis</i> from differing climates and arises in plastic responses to the seasons rather than water availability. <i>New Phytologist</i> , 2020 , 227, 780-793	9.8	9
24	Leaf Respiration in Terrestrial Biosphere Models. <i>Advances in Photosynthesis and Respiration</i> , 2017 , 107-147	14.7	9
23	Molecular and physiological responses during thermal acclimation of leaf photosynthesis and respiration in rice. <i>Plant, Cell and Environment</i> , 2020 , 43, 594-610	8.4	9
22	Does the direct effect of atmospheric CO ₂ concentration on leaf respiration vary with temperature? Responses in two species of <i>Plantago</i> that differ in relative growth rate. <i>Physiologia Plantarum</i> , 2002 , 114, 57-64	4.6	9
21	The effect of aluminum exposure on root respiration in an aluminum-sensitive and an aluminum-tolerant cultivar of <i>Triticum aestivum</i> . <i>Physiologia Plantarum</i> , 1993 , 87, 447-452	4.6	8
20	Responses of leaf respiration to heatwaves. <i>Plant, Cell and Environment</i> , 2021 , 44, 2090-2101	8.4	8
19	Phenotypic plasticity in rice: responses to fertilization and inoculation with arbuscular mycorrhizal fungi. <i>Journal of Plant Ecology</i> , 2015 , rtv031	1.7	7
18	Light inhibition of foliar respiration in response to soil water availability and seasonal changes in temperature in Mediterranean holm oak (<i>Quercus ilex</i>) forest. <i>Functional Plant Biology</i> , 2017 , 44, 1178-1193	2.7	7
17	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021 , 8, 254	8.2	6
16	Phosphorus deficiency alters scaling relationships between leaf gas exchange and associated traits in a wide range of contrasting <i>Eucalyptus</i> species. <i>Functional Plant Biology</i> , 2018 , 45, 813-826	2.7	5

15	The effect of aluminum exposure on root respiration in an aluminum-sensitive and an aluminum-tolerant cultivar of <i>Triticum aestivum</i> . <i>Physiologia Plantarum</i> , 1993 , 87, 447-452	4.6	5
14	Photosynthetic characteristics of 10 <i>Acacia</i> species grown under ambient and elevated atmospheric CO ₂ . <i>Functional Plant Biology</i> , 2000 , 27, 13	2.7	5
13	Contributions of photosynthetic and non-photosynthetic cell types to leaf respiration in <i>Vicia faba</i> L. and their responses to growth temperature. <i>Plant, Cell and Environment</i> , 2015 , 38, 2263-76	8.4	4
12	Respiration from roots and the mycorrhizosphere 127-156		4
11	Reply to Adams et al.: Empirical versus process-based approaches to modeling temperature responses of leaf respiration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5996-E5997	11.5	4
10	Functional trait variation related to gap dynamics in tropical moist forests: A vegetation modelling perspective. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018 , 35, 52-64	3	4
9	The Impact of Heat Stress on the Proteome of Crop Species 2016 , 155-175		3
8	Effect of N supply on the carbon economy of barley when accounting for plant size. <i>Functional Plant Biology</i> , 2020 , 47, 368-381	2.7	3
7	Supplementary material to "Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information"		3
6	The crucial roles of mitochondria in supporting C photosynthesis. <i>New Phytologist</i> , 2021 ,	9.8	2
5	Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information 2016 ,		2
4	AusTraits  curated plant trait database for the Australian flora		1
3	Oxygen uptake rates have contrasting responses to temperature in the root meristem and elongation zone.. <i>Physiologia Plantarum</i> , 2022 , e13682	4.6	1
2	Acclimation of leaf photosynthesis and respiration to warming in field-grown wheat. <i>Plant, Cell and Environment</i> , 2021 , 44, 2331-2346	8.4	0
1	Updated respiration routines alter spatio-temporal patterns of carbon cycling in a global land surface model. <i>Environmental Research Letters</i> , 2021 , 16, 104015	6.2	