

Kevin Griffin

List of Publications by Citations

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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.

169
papers

7,505
citations

50
h-index

80
g-index

179
ext. papers

8,483
ext. citations

6.1
avg, IF

5.63
L-index

#	Paper	IF	Citations
169	Relationships Between NDVI, Canopy Structure, and Photosynthesis in Three Californian Vegetation Types 1995 , 5, 28-41		642
168	The effect of elevated CO ₂ on the chemical composition and construction costs of leaves of 27 C ₃ species. <i>Plant, Cell and Environment</i> , 1997 , 20, 472-482	8.4	321
167	Increased CO ₂ uncouples growth from isoprene emission in an agriforest ecosystem. <i>Nature</i> , 2003 , 421, 256-9	50.4	274
166	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
165	The relative impacts of daytime and night-time warming on photosynthetic capacity in <i>Populus deltoides</i> . <i>Plant, Cell and Environment</i> , 2002 , 25, 1729-1737	8.4	191
164	Assessing community type, plant biomass, pigment composition, and photosynthetic efficiency of aquatic vegetation from spectral reflectance. <i>Remote Sensing of Environment</i> , 1993 , 46, 110-118	13.2	184
163	The influence of winter temperatures on the annual radial growth of six northern range margin tree species. <i>Dendrochronologia</i> , 2004 , 22, 7-29	2.8	169
162	Response of NDVI, biomass, and ecosystem gas exchange to long-term warming and fertilization in wet sedge tundra. <i>Oecologia</i> , 2003 , 135, 414-21	2.9	167
161	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
160	Thermal limits of leaf metabolism across biomes. <i>Global Change Biology</i> , 2017 , 23, 209-223	11.4	126
159	Thermal acclimation of leaf respiration but not photosynthesis in <i>Populus deltoides</i> x <i>nigra</i> . <i>New Phytologist</i> , 2008 , 178, 123-134	9.8	119
158	Estimating aboveground biomass and leaf area of low-stature Arctic shrubs with terrestrial LiDAR. <i>Remote Sensing of Environment</i> , 2015 , 164, 26-35	13.2	113
157	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
156	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
155	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
154	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
153	Construction cost and invasive potential: comparing <i>Lythrum salicaria</i> (Lythraceae) with co-occurring native species along pond banks. <i>American Journal of Botany</i> , 2001 , 88, 2252-2258	2.7	88

152	Effects of nitrogen supply and elevated carbon dioxide on construction cost in leaves of <i>Pinus taeda</i> (L.) seedlings. <i>Oecologia</i> , 1993 , 95, 575-580	2.9	87
151	Responses of leaf respiration to temperature and leaf characteristics in three deciduous tree species vary with site water availability. <i>Tree Physiology</i> , 2001 , 21, 571-8	4.2	86
150	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
149	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
148	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
147	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
146	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
145	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
144	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
143	Calorimetric Estimates of Construction Cost and Their use in Ecological Studies. <i>Functional Ecology</i> , 1994 , 8, 551	5.6	72
142	Direct and Indirect Effects of Atmospheric Carbon Dioxide Enrichment on Leaf Respiration of <i>Glycine max</i> (L.) Merr. <i>Plant Physiology</i> , 1994 , 104, 355-361	6.6	71
141	Scaling foliar respiration in two contrasting forest canopies. <i>Functional Ecology</i> , 2003 , 17, 101-114	5.6	69
140	Plants, CO ₂ and photosynthesis in the 21st century. <i>Chemistry and Biology</i> , 1996 , 3, 245-54		69
139	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
138	Implications of improved representations of plant respiration in a changing climate. <i>Nature Communications</i> , 2017 , 8, 1602	17.4	67
137	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
136	Leaf phenology and seasonal variation of photosynthesis of invasive <i>Berberis thunbergii</i> (Japanese barberry) and two co-occurring native understory shrubs in a northeastern United States deciduous forest. <i>Oecologia</i> , 2007 , 154, 11-21	2.9	67
135	Leaf respiration is differentially affected by leaf vs. stand-level night-time warming. <i>Global Change Biology</i> , 2002 , 8, 479-485	11.4	65

134	Canopy position affects the temperature response of leaf respiration in <i>Populus deltoides</i> . <i>New Phytologist</i> , 2002 , 154, 609-619	9.8	65
133	Growth and dry matter partitioning in loblolly and ponderosa pine seedlings in response to carbon and nitrogen availability. <i>New Phytologist</i> , 1995 , 129, 547-556	9.8	64
132	Phosphorus supply affects the photosynthetic capacity of loblolly pine grown in elevated carbon dioxide. <i>Tree Physiology</i> , 1994 , 14, 1229-44	4.2	63
131	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
130	Leaf respiratory CO is C-enriched relative to leaf organic components in five species of C plants. <i>New Phytologist</i> , 2004 , 163, 499-505	9.8	61
129	High-resolution mapping of aboveground shrub biomass in Arctic tundra using airborne lidar and imagery. <i>Remote Sensing of Environment</i> , 2016 , 184, 361-373	13.2	60
128	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
127	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
126	Canopy position and needle age affect photosynthetic response in field-grown <i>Pinus radiata</i> after five years of exposure to elevated carbon dioxide partial pressure. <i>Tree Physiology</i> , 2001 , 21, 915-23	4.2	57
125	Seasonal variation in the temperature response of leaf respiration in <i>Quercus rubra</i> : foliage respiration and leaf properties. <i>Functional Ecology</i> , 2006 , 20, 778-789	5.6	53
124	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
123	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
122	Inter-annual variability of NDVI in response to long-term warming and fertilization in wet sedge and tussock tundra. <i>Oecologia</i> , 2005 , 143, 588-97	2.9	52
121	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
120	Changes in root NH ₄ ⁺ and NO ₃ ⁻ absorption rates of loblolly and ponderosa pine in response to CO ₂ enrichment. <i>Plant and Soil</i> , 1997 , 190, 1-9	4.2	50
119	Urban environment of New York City promotes growth in northern red oak seedlings. <i>Tree Physiology</i> , 2012 , 32, 389-400	4.2	48
118	CO ₂ ENRICHMENT REDUCES THE ENERGETIC COST OF BIOMASS CONSTRUCTION IN AN INVASIVE DESERT GRASS. <i>Ecology</i> , 2004 , 85, 100-106	4.6	46
117	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

116	The contribution of bryophytes to the carbon exchange for a temperate rainforest. <i>Global Change Biology</i> , 2003 , 9, 1158-1170	11.4	45
115	Changes in composition, structure and aboveground biomass over seventy-six years (1930-2006) in the Black Rock Forest, Hudson Highlands, southeastern New York State. <i>Tree Physiology</i> , 2008 , 28, 537-497	4.2	44
114	Leaf respiration and alternative oxidase in field-grown alpine grasses respond to natural changes in temperature and light. <i>New Phytologist</i> , 2011 , 189, 1027-1039	9.8	43
113	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
112	Chloroplast numbers, mitochondrion numbers and carbon assimilation physiology of <i>Nicotiana sylvestris</i> as affected by CO ₂ concentration. <i>Environmental and Experimental Botany</i> , 2004 , 51, 21-31	5.9	42
111	Interannual variability in ozone removal by a temperate deciduous forest. <i>Geophysical Research Letters</i> , 2017 , 44, 542-552	4.9	41
110	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
109	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
108	Construction cost of loblolly and ponderosa pine leaves grown with varying carbon and nitrogen availability. <i>Plant, Cell and Environment</i> , 1996 , 19, 729-738	8.4	39
107	Can Gas-Exchange Characteristics help Explain the Invasive Success of <i>Lythrum salicaria</i> ?. <i>Biological Invasions</i> , 2004 , 6, 101-111	2.7	37
106	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
105	Direct and indirect effects of elevated CO ₂ on whole-shoot respiration in ponderosa pine seedlings. <i>Tree Physiology</i> , 1996 , 16, 33-41	4.2	36
104	Effects of Carbon Dioxide and Nitrogen on Growth and Nitrogen Uptake in Ponderosa and Loblolly Pine. <i>Journal of Environmental Quality</i> , 1998 , 27, 414-425	3.4	35
103	Biodiversity as a multidimensional construct: a review, framework and case study of herbivory's impact on plant biodiversity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283,	4.4	35
102	European and Mediterranean hydroclimate responses to tropical volcanic forcing over the last millennium. <i>Geophysical Research Letters</i> , 2017 , 44, 5104-5112	4.9	34
101	Isoprene emissions from a tundra ecosystem. <i>Biogeosciences</i> , 2013 , 10, 871-889	4.6	34
100	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
99	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

98	Greater deciduous shrub abundance extends tundra peak season and increases modeled net CO ₂ uptake. <i>Global Change Biology</i> , 2015 , 21, 2394-409	11.4	32
97	Nonlinearity of photosynthetic responses to growth in rising atmospheric CO ₂ : an experimental and modelling study. <i>Global Change Biology</i> , 1998 , 4, 173-183	11.4	32
96	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
95	EcoCELLs: tools for mesocosm scale measurements of gas exchange. <i>Plant, Cell and Environment</i> , 1996 , 19, 1210-21	8.4	32
94	Forest canopy hydraulic properties and catchment water balance: observations and modeling. <i>Ecological Modelling</i> , 2002 , 154, 263-288	3	31
93	Effects of CO ₂ enrichment on growth and root (15)NH ₄ (+) uptake rate of loblolly pine and ponderosa pine seedlings. <i>Tree Physiology</i> , 1996 , 16, 957-962	4.2	31
92	Responses of greenhouse gas fluxes to climate extremes in a semiarid grassland. <i>Atmospheric Environment</i> , 2016 , 142, 32-42	5.3	30
91	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
90	Repackaging precipitation into fewer, larger storms reduces ecosystem exchanges of CO ₂ and H ₂ O in a semiarid steppe. <i>Agricultural and Forest Meteorology</i> , 2017 , 247, 356-364	5.8	29
89	Differential physiological responses to environmental change promote woody shrub expansion. <i>Ecology and Evolution</i> , 2013 , 3, 1149-62	2.8	29
88	Altered night-time CO ₂ concentration affects the growth, physiology and biochemistry of soybean. <i>Plant, Cell and Environment</i> , 1999 , 22, 91-99	8.4	29
87	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
86	Light saturated RuBP oxygenation by Rubisco is a robust predictor of light inhibition of respiration in <i>Triticum aestivum</i> L. <i>Plant Biology</i> , 2013 , 15, 769-75	3.7	28
85	Blue intensity from a tropical conifer's annual rings for climate reconstruction: An ecophysiological perspective. <i>Dendrochronologia</i> , 2018 , 50, 10-22	2.8	27
84	The autotrophic contribution to soil respiration in a northern temperate deciduous forest and its response to stand disturbance. <i>Oecologia</i> , 2012 , 169, 211-20	2.9	26
83	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
82	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
81	Carbon dioxide efflux from a 550 m ³ soil across a range of soil temperatures. <i>Forest Ecology and Management</i> , 2003 , 178, 311-327	3.9	25

80	LiDAR canopy radiation model reveals patterns of photosynthetic partitioning in an Arctic shrub. <i>Agricultural and Forest Meteorology</i> , 2016 , 221, 78-93	5.8	23
79	Photosynthetic acclimation to elevated CO ₂ combined with partial rootzone drying results in improved water use efficiency, drought tolerance and leaf carbon balance of grapevines (<i>Vitis labrusca</i>). <i>Environmental and Experimental Botany</i> , 2017 , 134, 82-95	5.9	22
78	Processing arctic eddy-flux data using a simple carbon-exchange model embedded in the ensemble Kalman filter 2010 , 20, 1285-301		22
77	Tracking the origins of the Kok effect, 70 years after its discovery. <i>New Phytologist</i> , 2017 , 214, 506-510	9.8	21
76	On the Functional Relationship Between Fluorescence and Photochemical Yields in Complex Evergreen Needleleaf Canopies. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087858	4.9	21
75	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
74	Oak loss increases foliar nitrogen, (15)N and growth rates of <i>Betula lenta</i> in a northern temperate deciduous forest. <i>Tree Physiology</i> , 2012 , 32, 1092-101	4.2	20
73	Interactive effects of soil nitrogen and atmospheric carbon dioxide on root/rhizosphere carbon dioxide efflux from loblolly and ponderosa pine seedlings. <i>Plant and Soil</i> , 1997 , 190, 11-18	4.2	20
72	Applying terrestrial lidar for evaluation and calibration of airborne lidar-derived shrub biomass estimates in Arctic tundra. <i>Remote Sensing Letters</i> , 2017 , 8, 175-184	2.3	19
71	Sex-specific physiological and growth responses to elevated atmospheric CO ₂ in <i>Silene latifolia</i> Poiret. <i>Global Change Biology</i> , 2003 , 9, 612-618	11.4	19
70	Effects of light quantity and quality and soil nitrogen status on nitrate reductase activity in rainforest species of the genus <i>Piper</i> . <i>Oecologia</i> , 1991 , 86, 441-446	2.9	19
69	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
68	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
67	Measurement of Gross Photosynthesis, Respiration in the Light, and Mesophyll Conductance Using HO Labeling. <i>Plant Physiology</i> , 2018 , 177, 62-74	6.6	17
66	Tall Deciduous Shrubs Offset Delayed Start of Growing Season Through Rapid Leaf Development in the Alaskan Arctic Tundra. <i>Arctic, Antarctic, and Alpine Research</i> , 2014 , 46, 682-697	1.8	17
65	Precipitation chloride at West Point, NY: Seasonal patterns and possible contributions from non-seawater sources. <i>Atmospheric Environment</i> , 2007 , 41, 2240-2254	5.3	17
64	Soil Microbial Assemblages Are Linked to Plant Community Composition and Contribute to Ecosystem Services on Urban Green Roofs. <i>Frontiers in Ecology and Evolution</i> , 2019 , 7,	3.7	16
63	Rapid rebound of soil respiration following partial stand disturbance by tree girdling in a temperate deciduous forest. <i>Oecologia</i> , 2014 , 174, 1415-24	2.9	16

62	Construction cost and invasive potential: comparing <i>Lythrum salicaria</i> (Lythraceae) with co-occurring native species along pond banks. <i>American Journal of Botany</i> , 2001 , 88, 2252-8	2.7	16
61	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
60	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
59	Growth CO ₂ concentration modifies the transpiration response of <i>Populus deltoides</i> to drought and vapor pressure deficit. <i>Tree Physiology</i> , 2004 , 24, 1137-45	4.2	15
58	Sensitivity and acclimation of <i>Glycine max</i> (L.) Merr. leaf gas exchange to CO ₂ partial pressure. <i>Environmental and Experimental Botany</i> , 1999 , 42, 141-153	5.9	15
57	A gradient of nutrient enrichment reveals nonlinear impacts of fertilization on Arctic plant diversity and ecosystem function. <i>Ecology and Evolution</i> , 2017 , 7, 2449-2460	2.8	14
56	Respiratory flexibility and efficiency are affected by simulated global change in Arctic plants. <i>New Phytologist</i> , 2013 , 197, 1161-1172	9.8	14
55	Sapwood temperature gradients between lower stems and the crown do not influence estimates of stand-level stem CO ₂ efflux. <i>Tree Physiology</i> , 2008 , 28, 1553-9	4.2	14
54	Proximal remote sensing of tree physiology at northern treeline: Do late-season changes in the photochemical reflectance index (PRI) respond to climate or photoperiod?. <i>Remote Sensing of Environment</i> , 2019 , 221, 340-350	13.2	14
53	Foliar nitrogen characteristics of four tree species planted in New York City forest restoration sites. <i>Urban Ecosystems</i> , 2014 , 17, 807-824	2.8	13
52	A field-compatible method for measuring alternative respiratory pathway activities in vivo using stable O ₁₈ isotopes. <i>Plant, Cell and Environment</i> , 2012 , 35, 1518-32	8.4	13
51	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
50	Predicting ecosystem carbon balance in a warming Arctic: the importance of long-term thermal acclimation potential and inhibitory effects of light on respiration. <i>Global Change Biology</i> , 2014 , 20, 1901-12	11.4	12
49	Age at flowering differentially affects vegetative and reproductive responses of a determinate annual plant to elevated carbon dioxide. <i>Oecologia</i> , 2003 , 135, 194-201	2.9	12
48	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
47	Deficit irrigation and transparent plastic covers can save water and improve grapevine cultivation in the tropics. <i>Agricultural Water Management</i> , 2018 , 202, 66-80	5.9	11
46	Seasonal variation of temperature response of respiration in invasive <i>Berberis thunbergii</i> (Japanese barberry) and two co-occurring native understory shrubs in a northeastern US deciduous forest. <i>Oecologia</i> , 2007 , 153, 809-19	2.9	11
45	Spatial and temporal scaling of intercellular CO ₂ concentration in a temperate rain forest dominated by <i>Dacrydium cupressinum</i> in New Zealand. <i>Plant, Cell and Environment</i> , 2006 , 29, 497-510	8.4	11

44	Remote sensing tracks daily radial wood growth of evergreen needleleaf trees. <i>Global Change Biology</i> , 2020 , 26, 4068-4078	11.4	11
43	Acclimation of leaf respiration temperature responses across thermally contrasting biomes. <i>New Phytologist</i> , 2021 , 229, 1312-1325	9.8	10
42	Breaking the cycle: how light, CO ₂ and O ₂ affect plant respiration. <i>Plant, Cell and Environment</i> , 2013 , 36, 498-500	8.4	9
41	Xanthophyll Cycle Activity in Two Prominent Arctic Shrub Species. <i>Arctic, Antarctic, and Alpine Research</i> , 2017 , 49, 277-289	1.8	9
40	Where does the carbon go? Thermal acclimation of respiration and increased photosynthesis in trees at the temperate-boreal ecotone. <i>Tree Physiology</i> , 2017 , 37, 281-284	4.2	9
39	Leaf Respiration in Terrestrial Biosphere Models. <i>Advances in Photosynthesis and Respiration</i> , 2017 , 107-142	1.4	9
38	Cost-effectiveness of leaf energy and resource investment of invasive <i>Berberis thunbergii</i> and co-occurring native shrubs. <i>Canadian Journal of Forest Research</i> , 2009 , 39, 2109-2118	1.9	9
37	Scaling Thermal Properties from the Leaf to the Canopy in the Alaskan Arctic Tundra. <i>Arctic, Antarctic, and Alpine Research</i> , 2016 , 48, 739-754	1.8	9
36	Interannual variations in needle and sapwood traits of branches under an experimental drought. <i>Ecology and Evolution</i> , 2018 , 8, 1655-1672	2.8	8
35	Scaling carbon uptake from leaves to canopies: insights from two forests with contrasting properties. 2004 , 231-254		8
34	White oak and red maple tree ring analysis reveals enhanced productivity in urban forest patches. <i>Forest Ecology and Management</i> , 2019 , 453, 117626	3.9	8
33	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
32	Temperature response of respiration and respiratory quotients of 16 co-occurring temperate tree species. <i>Tree Physiology</i> , 2018 , 38, 1319-1332	4.2	7
31	Terrestrial lidar scanning reveals fine-scale linkages between microstructure and photosynthetic functioning of small-stature spruce trees at the forest-tundra ecotone. <i>Agricultural and Forest Meteorology</i> , 2019 , 269-270, 157-168	5.8	7
30	Photosynthetic capacity, leaf respiration and growth in two papaya () genotypes with different leaf chlorophyll concentrations. <i>AoB PLANTS</i> , 2019 , 11, plz013	2.9	6
29	Distinct xylem responses to acute vs prolonged drought in pine trees. <i>Tree Physiology</i> , 2020 , 40, 605-620	4.2	6
28	Out of the light and into the dark: post-illumination respiratory metabolism. <i>New Phytologist</i> , 2012 , 195, 4-7	9.8	6
27	Ecosystem Recovery from Disturbance is Constrained by N Cycle Openness, Vegetation-Soil N Distribution, Form of N Losses, and the Balance Between Vegetation and Soil-Microbial Processes. <i>Ecosystems</i> , 2021 , 24, 667-685	3.9	6

26	20 cm resolution mapping of tundra vegetation communities provides an ecological baseline for important research areas in a changing Arctic environment. <i>Environmental Research Communications</i> , 2019 , 1, 105004	3.1	5
25	Dendrochronological Potential of Japanese Barberry (<i>Berberis thunbergii</i>): A Case Study in the Black Rock Forest, New York. <i>Tree-Ring Research</i> , 2008 , 64, 115-124	1	5
24	Spectral determination of concentrations of functionally diverse pigments in increasingly complex arctic tundra canopies. <i>Oecologia</i> , 2016 , 182, 85-97	2.9	5
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