Kevin Griffin

List of Publications by Year
in descending order

174 papers	9,447 citations	36691 53 h-index	62345 84 g-index
179 all docs	179 docs citations	179 times ranked	11445 citing authors

#	Article	IF	Citations
1	Relationships Between NDVI, Canopy Structure, and Photosynthesis in Three Californian Vegetation Types. , 1995, 5, 28-41.		816
2	The effect of elevated CO2 on the chemical composition and construction costs of leaves of 27 C3 species. Plant, Cell and Environment, 1997, 20, 472-482.	2.8	355
3	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. New Phytologist, 2015, 206, 614-636.	3.5	350
4	Increased CO2 uncouples growth from isoprene emission in an agriforest ecosystem. Nature, 2003, 421, 256-259.	13.7	312
5	The relative impacts of daytime and night-time warming on photosynthetic capacity in Populus deltoides. Plant, Cell and Environment, 2002, 25, 1729-1737.	2.8	231
6	Assessing community type, plant biomass, pigment composition, and photosynthetic efficiency of aquatic vegetation from spectral reflectance. Remote Sensing of Environment, 1993, 46, 110-118.	4.6	228
7	Thermal limits of leaf metabolism across biomes. Global Change Biology, 2017, 23, 209-223.	4.2	213
8	Convergence in the temperature response of leaf respiration across biomes and plant functional types. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3832-3837.	3.3	198
9	The influence of winter temperatures on the annual radial growth of six northern range margin tree species. Dendrochronologia, 2004, 22, 7-29.	1.0	195
10	Response of NDVI, biomass, and ecosystem gas exchange to long-term warming and fertilization in wet sedge tundra. Oecologia, 2003, 135, 414-421.	0.9	190
11	Leaf day respiration: low <scp>CO</scp>₂ flux but high significance for metabolism and carbon balance. New Phytologist, 2017, 216, 986-1001.	3.5	159
12	Estimating aboveground biomass and leaf area of low-stature Arctic shrubs with terrestrial LiDAR. Remote Sensing of Environment, 2015, 164, 26-35.	4.6	141
13	Thermal acclimation of leaf respiration but not photosynthesis in Populus deltoidesÃ—nigra. New Phytologist, 2008, 178, 123-134.	3.5	139
14	Effects of low and elevated CO2 on C3 and C4 annuals. Oecologia, 1995, 101, 21-28.	0.9	120
15	Plant growth in elevated CO2 alters mitochondrial number and chloroplast fine structure. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 2473-2478.	3.3	113
16	The photosynthesis - leaf nitrogen relationship at ambient and elevated atmospheric carbon dioxide: a meta-analysis. Global Change Biology, 1999, 5, 331-346.	4.2	109
17	Photosynthetic adjustment in field-grown ponderosa pine trees after six years of exposure to elevated CO2. Tree Physiology, 1999, 19, 221-228.	1.4	102
18	Implications of improved representations of plant respiration in a changing climate. Nature Communications, 2017, 8, 1602.	5.8	100

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19	Construction cost and invasive potential: comparing Lythrum salicaria (Lythraceae) with co-occurring native species along pond banks. American Journal of Botany, 2001, 88, 2252-2258.	0.8	99
20	Response of total night-time respiration to differences in total daily photosynthesis for leaves in a Quercus rubra L. canopy: implications for modelling canopy CO2 exchange. Global Change Biology, 2004, 10, 925-938.	4.2	97
21	Responses of leaf respiration to temperature and leaf characteristics in three deciduous tree species vary with site water availability. Tree Physiology, 2001, 21, 571-578.	1.4	96
22	Effects of nitrogen supply and elevated carbon dioxide on construction cost in leaves of Pinus taeda (L.) seedlings. Oecologia, 1993, 95, 575-580.	0.9	95
23	Calorimetric Estimates of Construction Cost and Their use in Ecological Studies. Functional Ecology, 1994, 8, 551.	1.7	93
24	Bringing the Kok effect to light: A review on the integration of daytime respiration and net ecosystem exchange. Ecosphere, 2013, 4, 1-14.	1.0	90
25	Effects of elevated atmospheric CO2 concentration on leaf dark respiration of Xanthium strumarium in light and in darkness. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 2479-2484.	3.3	89
26	Leaf respiration at different canopy positions in sweetgum (Liquidambar styraciflua) grown in ambient and elevated concentrations of carbon dioxide in the field. Tree Physiology, 2002, 22, 1157-1166.	1.4	87
27	Plants, CO2 and photosynthesis in the 21st century. Chemistry and Biology, 1996, 3, 245-254.	6.2	86
28	The onset of photosynthetic acclimation to elevated CO 2 partial pressure in fieldâ€grown Pinus radiata D. Don. after 4 years. Plant, Cell and Environment, 2000, 23, 1089-1098.	2.8	83
29	Sap flow rates and sapwood density are critical factors in withinâ€•and betweenâ€tree variation in CO 2 efflux from stems of mature Dacrydium cupressinum trees. New Phytologist, 2005, 167, 815-828.	3.5	83
30	Leaf phenology and seasonal variation of photosynthesis of invasive Berberis thunbergii (Japanese) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 forest. Oecologia, 2007, 154, 11-21.	0.9	82
31	Photosynthetic acclimation to long-term exposure to elevated CO2 concentration in Pinus radiata D. Don. is related to age of needles. Plant, Cell and Environment, 1998, 21, 1019-1028.	2.8	81
32	Scaling foliar respiration in two contrasting forest canopies. Functional Ecology, 2003, 17, 101-114.	1.7	81
33	Direct and Indirect Effects of Atmospheric Carbon Dioxide Enrichment on Leaf Respiration of Glycine max (L.) Merr. Plant Physiology, 1994, 104, 355-361.	2.3	79
34	Response of Xanthium strumarium leaf respiration in the light to elevated CO 2 concentration, nitrogen availability and temperature. New Phytologist, 2004, 162, 377-386.	3.5	78
35	Canopy position affects the temperature response of leaf respiration in Populus deltoides. New Phytologist, 2002, 154, 609-619.	3.5	76
36	Radiative transfer and carbon assimilation in relation to canopy architecture, foliage area distribution and clumping in a mature temperate rainforest canopy in New Zealand. Agricultural and Forest Meteorology, 2005, 135, 326-339.	1.9	73

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37	Leaf respiration is differentially affected by leaf vs. stand-level night-time warming. Global Change Biology, 2002, 8, 479-485.	4.2	72
38	Ageâ€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 Quercusâ€dominated forest. Journal of Ecology, 2012, 100, 428-440.	1.9	72
39	High-resolution mapping of aboveground shrub biomass in Arctic tundra using airborne lidar and imagery. Remote Sensing of Environment, 2016, 184, 361-373.	4.6	72
40	Growth and dry matter partitioning in loblolly and ponderosa pine seedlings in response to carbon and nitrogen availability. New Phytologist, 1995, 129, 547-556.	3.5	68
41	Nocturnal stomatal conductance and implications for modelling Î´18O of leaf-respired CO2 in temperate tree species. Functional Plant Biology, 2005, 32, 1107.	1.1	67
42	Phosphorus supply affects the photosynthetic capacity of loblolly pine grown in elevated carbon dioxide. Tree Physiology, 1994, 14, 1229-1244.	1.4	65
43	The contribution of bryophytes to the carbon exchange for a temperate rainforest. Global Change Biology, 2003, 9, 1158-1170.	4.2	64
44	Urban environment of New York City promotes growth in northern red oak seedlings. Tree Physiology, 2012, 32, 389-400.	1.4	63
45	Canopy position and needle age affect photosynthetic response in field-grown Pinus radiata after five years of exposure to elevated carbon dioxide partial pressure. Tree Physiology, 2001, 21, 915-923.	1.4	62
46	Effects of age and ontogeny on photosynthetic responses of a determinate annual plant to elevated CO2 concentrations. Plant, Cell and Environment, 2002, 25, 359-368.	2.8	62
47	Leaf respiratory CO 2 is 13 Câ€enriched relative to leaf organic components in five species of C 3 plants. New Phytologist, 2004, 163, 499-505.	3.5	62
48	Changes in composition, structure and aboveground biomass over seventy-six years (1930-2006) in the Black Rock Forest, Hudson Highlands, southeastern New York State. Tree Physiology, 2008, 28, 537-549.	1.4	61
49	Seasonal variation in the temperature response of leaf respiration in Quercus rubra: foliage respiration and leaf properties. Functional Ecology, 2006, 20, 778-789.	1.7	60
50	Inter-annual variability of NDVI in response to long-term warming and fertilization in wet sedge and tussock tundra. Oecologia, 2005, 143, 588-597.	0.9	58
51	Respiration characteristics in temperate rainforest tree species differ along a long-term soil-development chronosequence. Oecologia, 2005, 143, 271-279.	0.9	57
52	Leaf respiration and alternative oxidase in fieldâ€grown alpine grasses respond to natural changes in temperature and light. New Phytologist, 2011, 189, 1027-1039.	3.5	57
53	Photosynthesis and reflectance indices for rainforest species in ecosystems undergoing progression and retrogression along a soil fertility chronosequence in New Zealand. Oecologia, 2005, 144, 233-244.	0.9	56
54	Interannual variability in ozone removal by a temperate deciduous forest. Geophysical Research Letters, 2017, 44, 542-552.	1.5	56

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55	Title is missing!. Plant and Soil, 1997, 190, 1-9.	1.8	55
56	Chloroplast numbers, mitochondrion numbers and carbon assimilation physiology of Nicotiana sylvestris as affected by CO2 concentration. Environmental and Experimental Botany, 2004, 51, 21-31.	2.0	55
57	CO2ENRICHMENT REDUCES THE ENERGETIC COST OF BIOMASS CONSTRUCTION IN AN INVASIVE DESERT GRASS. Ecology, 2004, 85, 100-106.	1.5	53
58	Light inhibition of leaf respiration as soil fertility declines along a post-glacial chronosequence in New Zealand: an analysis using the Kok method. Plant and Soil, 2013, 367, 163-182.	1.8	53
59	Leaf dark respiration as a function of canopy position in Nothofagus fusca trees grown at ambient and elevated CO2 partial pressures for 5Âyears. Functional Ecology, 2001, 15, 497-505.	1.7	52
60	Biodiversity as a multidimensional construct: a review, framework and case study of herbivory's impact on plant biodiversity. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20153005.	1.2	52
61	Photosynthetic characteristics in canopies of Quercus rubra, Quercus prinus and Acer rubrum differ in response to soil water availability. Oecologia, 2002, 130, 515-524.	0.9	51
62	European and Mediterranean hydroclimate responses to tropical volcanic forcing over the last millennium. Geophysical Research Letters, 2017, 44, 5104-5112.	1.5	51
63	Nocturnal warming increases photosynthesis at elevated CO 2 partial pressure in Populus deltoides. New Phytologist, 2004, 161, 819-826.	3.5	49
64	Responses of greenhouse gas fluxes to climate extremes in a semiarid grassland. Atmospheric Environment, 2016, 142, 32-42.	1.9	49
65	Leaf respiration in darkness and in the light under pre-industrial, current and elevated atmospheric CO2 concentrations. Plant Science, 2014, 226, 120-130.	1.7	47
66	Blue intensity from a tropical coniferâ€™s annual rings for climate reconstruction: An ecophysiological perspective. Dendrochronologia, 2018, 50, 10-22.	1.0	46
67	Analysis of the growth of rimu (Dacrydium cupressinum) in South Westland, New Zealand, using process-based simulation models. International Journal of Biometeorology, 2002, 46, 66-75.	1.3	44
68	Construction cost of loblolly and ponderosa pine leaves grown with varying carbon and nitrogen availability. Plant, Cell and Environment, 1996, 19, 729-738.	2.8	43
69	Repackaging precipitation into fewer, larger storms reduces ecosystem exchanges of CO 2 and H 2 O in a semiarid steppe. Agricultural and Forest Meteorology, 2017, 247, 356-364.	1.9	43
70	Can Gas-Exchange Characteristics help Explain the Invasive Success of Lythrum salicaria?. Biological Invasions, 2004, 6, 101-111.	1.2	42
71	Isoprene emissions from a tundra ecosystem. Biogeosciences, 2013, 10, 871-889.	1.3	41
72	Nitrogen and phosphorus availabilities interact to modulate leaf trait scaling relationships across six plant functional types in a controlledâ€environment study. New Phytologist, 2017, 215, 992-1008.	3.5	41

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73	Effects of CO2 enrichment on growth and root 15NH4+ uptake rate of loblolly pine and ponderosa pine seedlings. Tree Physiology, 1996, 16, 957-962.	1.4	40
74	Tracking the origins of the Kok effect, 70 years after its discovery. New Phytologist, 2017, 214, 506-510.	3.5	40
75	On the Functional Relationship Between Fluorescence and Photochemical Yields in Complex Evergreen Needleleaf Canopies. Geophysical Research Letters, 2020, 47, e2020GL087858.	1.5	40
76	Direct and indirect effects of elevated CO2 on whole-shoot respiration in ponderosa pine seedlings. Tree Physiology, 1996, 16, 33-41.	1.4	39
77	Stomatal and non-stomatal limitations to photosynthesis in four tree species in a temperate rainforest dominated by Dacrydium cupressinum in New Zealand. Tree Physiology, 2005, 25, 447-456.	1.4	39
78	Light saturated <scp>R</scp>u<scp>BP</scp> oxygenation by Rubisco is a robust predictor of light inhibition of respiration in Triticum aestivum L. Plant Biology, 2013, 15, 769-775.	1.8	39
79	Nonlinearity of photosynthetic responses to growth in rising atmospheric CO 2 : an experimental and modelling study. Global Change Biology, 1998, 4, 173-183.	4.2	38
80	Effects of Carbon Dioxide and Nitrogen on Growth and Nitrogen Uptake in Ponderosa and Loblolly Pine. Journal of Environmental Quality, 1998, 27, 414-425.	1.0	37
81	Effects of leaf age and tree size on stomatal and mesophyll limitations to photosynthesis in mountain beech (Nothofagus solandrii var. cliffortiodes). Tree Physiology, 2011, 31, 985-996.	1.4	37
82	Greater deciduous shrub abundance extends tundra peak season and increases modeled net <scp>CO</scp>₂ uptake. Global Change Biology, 2015, 21, 2394-2409.	4.2	37
83	Soil Microbial Assemblages Are Linked to Plant Community Composition and Contribute to Ecosystem Services on Urban Green Roofs. Frontiers in Ecology and Evolution, 2019, 7, .	1.1	36
84	EcoCELLs: tools for mesocosm scale measurements of gas exchange. Plant, Cell and Environment, 1996, 19, 1210-1221.	2.8	34
85	Forest canopy hydraulic properties and catchment water balance: observations and modeling. Ecological Modelling, 2002, 154, 263-288.	1.2	34
86	Seasonality of foliar respiration in two dominant plant species from the Arctic tundra: response to long-term warming and short-term temperature variability. Functional Plant Biology, 2014, 41, 287.	1.1	34
87	Quantifying the response of photosynthesis to changes in leaf nitrogen content and leaf mass per area in plants grown under atmospheric CO 2 enrichment. Plant, Cell and Environment, 1999, 22, 1109-1119.	2.8	33
88	Differential physiological responses to environmental change promote woody shrub expansion. Ecology and Evolution, 2013, 3, 1149-1162.	0.8	33
89	The autotrophic contribution to soil respiration in a northern temperate deciduous forest and its response to stand disturbance. Oecologia, 2012, 169, 211-220.	0.9	31
90	Altered night-time CO2 concentration affects the growth, physiology and biochemistry of soybean. Plant, Cell and Environment, 1999, 22, 91-99.	2.8	30

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91	Photosynthetic acclimation to elevated CO2 combined with partial rootzone drying results in improved water use efficiency, drought tolerance and leaf carbon balance of grapevines (Vitis) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.0	30
92	Thermal acclimation of shoot respiration in an Arctic woody plant species subjected to 22Âyears of warming and altered nutrient supply. Global Change Biology, 2014, 20, 2618-2630.	4.2	28
93	LiDAR canopy radiation model reveals patterns of photosynthetic partitioning in an Arctic shrub. Agricultural and Forest Meteorology, 2016, 221, 78-93.	1.9	28
94	Carbon dioxide efflux from a 550 m3 soil across a range of soil temperatures. Forest Ecology and Management, 2003, 178, 311-327.	1.4	27
95	Leafâ€•and cellâ€level carbon cycling responses to a nitrogen and phosphorus gradient in two Arctic tundra species. American Journal of Botany, 2012, 99, 1702-1714.	0.8	27
96	Measurement of Gross Photosynthesis, Respiration in the Light, and Mesophyll Conductance Using H₂¹⁸O Labeling. Plant Physiology, 2018, 177, 62-74.	2.3	27
97	Effects of light quantity and quality and soil nitrogen status on nitrate reductase activity in rainforest species of the genus Piper. Oecologia, 1991, 86, 441-446.	0.9	26
98	Processing arctic eddyâ€flux data using a simple carbonâ€exchange model embedded in the ensemble Kalman filter. Ecological Applications, 2010, 20, 1285-1301.	1.8	25
99	Oak loss increases foliar nitrogen, Â15N and growth rates of Betula lenta in a northern temperate deciduous forest. Tree Physiology, 2012, 32, 1092-1101.	1.4	25
100	Leaf Respiration in Terrestrial Biosphere Models. Advances in Photosynthesis and Respiration, 2017, , 107-142.	1.0	25
101	Title is missing!. Plant and Soil, 1997, 190, 11-18.	1.8	24
102	A gradient of nutrient enrichment reveals nonlinear impacts of fertilization on Arctic plant diversity and ecosystem function. Ecology and Evolution, 2017, 7, 2449-2460.	0.8	24
103	Sex-specific physiological and growth responses to elevated atmospheric CO2 in Silene latifolia Poiret. Global Change Biology, 2003, 9, 612-618.	4.2	23
104	Applying terrestrial lidar for evaluation and calibration of airborne lidar-derived shrub biomass estimates in Arctic tundra. Remote Sensing Letters, 2017, 8, 175-184.	0.6	23
105	Atmospheric CO 2 enrichment alters energy assimilation, investment and allocation in Xanthium strumarium. New Phytologist, 2005, 166, 513-523.	3.5	22
106	Proximal remote sensing of tree physiology at northern treeline: Do late-season changes in the photochemical reflectance index (PRI) respond to climate or photoperiod?. Remote Sensing of Environment, 2019, 221, 340-350.	4.6	22
107	Energy investment in leaves of red maple and co-occurring oaks within a forested watershed. Tree Physiology, 2002, 22, 859-867.	1.4	21
108	Growth CO2 concentration modifies the transpiration response of Populus deltoides to drought and vapor pressure deficit. Tree Physiology, 2004, 24, 1137-1145.	1.4	20

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109	Respiratory flexibility and efficiency are affected by simulated global change in Arctic plants. New Phytologist, 2013, 197, 1161-1172.	3.5	20
110	Tall Deciduous Shrubs Offset Delayed Start of Growing Season Through Rapid Leaf Development in the Alaskan Arctic Tundra. Arctic, Antarctic, and Alpine Research, 2014, 46, 682-697.	0.4	20
111	Distinct xylem responses to acute vs prolonged drought in pine trees. Tree Physiology, 2020, 40, 605-620.	1.4	20
112	Remote sensing tracks daily radial wood growth of evergreen needleleaf trees. Global Change Biology, 2020, 26, 4068-4078.	4.2	20
113	Scaling carbon uptake from leaves to canopies: insights from two forests with contrasting properties.. , 2004, , 231-254.		20
114	Rapid rebound of soil respiration following partial stand disturbance by tree girdling in a temperate deciduous forest. Oecologia, 2014, 174, 1415-1424.	0.9	19
115	Construction cost and invasive potential: comparing Lythrum salicaria (Lythraceae) with co-occurring native species along pond banks. American Journal of Botany, 2001, 88, 2252-8.	0.8	19
116	Variations in dark respiration and mitochondrial numbers within needles of Pinus radiata grown in ambient or elevated CO2 partial pressure. Tree Physiology, 2004, 24, 347-353.	1.4	18
117	Precipitation chloride at West Point, NY: Seasonal patterns and possible contributions from non-seawater sources. Atmospheric Environment, 2007, 41, 2240-2254.	1.9	18
118	Respiratory alternative oxidase responds to both low- and high-temperature stress in Quercus rubra leaves along an urban-rural gradient in New York. Functional Ecology, 2011, 25, 1007-1017.	1.7	18
119	Foliar nitrogen characteristics of four tree species planted in New York City forest restoration sites. Urban Ecosystems, 2014, 17, 807-824.	1.1	18
120	Deficit irrigation and transparent plastic covers can save water and improve grapevine cultivation in the tropics. Agricultural Water Management, 2018, 202, 66-80.	2.4	18
121	Is the Kok effect a respiratory phenomenon? Metabolic insight using ¹³C labeling in Helianthus annuus leaves. New Phytologist, 2020, 228, 1243-1255.	3.5	18
122	Separating species and environmental determinants of leaf functional traits in temperate rainforest plants along a soil-development chronosequence. Functional Plant Biology, 2016, 43, 751.	1.1	17
123	White oak and red maple tree ring analysis reveals enhanced productivity in urban forest patches. Forest Ecology and Management, 2019, 453, 117626.	1.4	17
124	Acclimation of leaf respiration temperature responses across thermally contrasting biomes. New Phytologist, 2021, 229, 1312-1325.	3.5	17
125	Temperature sensitivity of woody nitrogen fixation across species and growing temperatures. Nature Plants, 2022, 8, 209-216.	4.7	17
126	Sensitivity and acclimation of Glycine max (L.) Merr. leaf gas exchange to CO2 partial pressure. Environmental and Experimental Botany, 1999, 42, 141-153.	2.0	16

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127	Sapwood temperature gradients between lower stems and the crown do not influence estimates of stand-level stem CO2 efflux. Tree Physiology, 2008, 28, 1553-1559.	1.4	15
128	Interannual variations in needle and sapwood traits of Pinus edulis branches under an experimental drought. Ecology and Evolution, 2018, 8, 1655-1672.	0.8	15
129	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. Ecosystems, 2021, 24, 667-685.	1.6	15
130	Age at flowering differentially affects vegetative and reproductive responses of a determinate annual plant to elevated carbon dioxide. Oecologia, 2003, 135, 194-201.	0.9	14
131	Seasonal variation of temperature response of respiration in invasive Berberis thunbergii (Japanese) Tj ETQq1 1 0.784314 rgBT /Overlo Oecologia, 2007, 153, 809-819.	0.9	14
132	Predicting ecosystem carbon balance in a warming Arctic: the importance of long-term thermal acclimation potential and inhibitory effects of light on respiration. Global Change Biology, 2014, 20, 1901-1912.	4.2	14
133	A fieldâ€compatible method for measuring alternative respiratory pathway activities in vivo using stable O₂ isotopes. Plant, Cell and Environment, 2012, 35, 1518-1532.	2.8	13
134	Modulation of respiratory metabolism in response to nutrient changes along a soil chronosequence. Plant, Cell and Environment, 2013, 36, 1120-1134.	2.8	13
135	Breaking the cycle: how light, CO₂ and O₂ affect plant respiration. Plant, Cell and Environment, 2013, 36, 498-500.	2.8	13
136	Scaling Thermal Properties from the Leaf to the Canopy in the Alaskan Arctic Tundra. Arctic, Antarctic, and Alpine Research, 2016, 48, 739-754.	0.4	13
137	Temperature response of respiration and respiratory quotients of 16 co-occurring temperate tree species. Tree Physiology, 2018, 38, 1319-1332.	1.4	13
138	Herbivore absence can shift dry heath tundra from carbon source to sink during peak growing season. Environmental Research Letters, 2021, 16, 024027.	2.2	13
139	Where does the carbon go? Thermal acclimation of respiration and increased photosynthesis in trees at the temperate-boreal ecotone. Tree Physiology, 2017, 37, 281-284.	1.4	12
140	20 cm resolution mapping of tundra vegetation communities provides an ecological baseline for important research areas in a changing Arctic environment. Environmental Research Communications, 2019, 1, 105004.	0.9	12
141	Terrestrial lidar scanning reveals fine-scale linkages between microstructure and photosynthetic functioning of small-stature spruce trees at the forest-tundra ecotone. Agricultural and Forest Meteorology, 2019, 269-270, 157-168.	1.9	12
142	Spatial and temporal scaling of intercellular CO2 concentration in a temperate rain forest dominated by Dacrydium cupressinum in New Zealand. Plant, Cell and Environment, 2006, 29, 497-510.	2.8	11
143	Light inhibition of foliar respiration in response to soil water availability and seasonal changes in temperature in Mediterranean holm oak (Quercus ilex) forest. Functional Plant Biology, 2017, 44, 1178.	1.1	11
144	Chlorophyll fluorescence parameters, leaf traits and foliar chemistry of white oak and red maple trees in urban forest patches. Tree Physiology, 2021, 41, 269-279.	1.4	11

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145	Cost-effectiveness of leaf energy and resource investment of invasive Berberis thunbergii and co-occurring native shrubs. Canadian Journal of Forest Research, 2009, 39, 2109-2118.	0.8	10
146	Xanthophyll Cycle Activity in Two Prominent Arctic Shrub Species. Arctic, Antarctic, and Alpine Research, 2017, 49, 277-289.	0.4	10
147	Out of the light and into the dark: postâ€illumination respiratory metabolism. New Phytologist, 2012, 195, 4-7.	3.5	9
148	Reply to Adams et al.: Empirical versus process-based approaches to modeling temperature responses of leaf respiration. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5996-E5997.	3.3	9
149	Photosynthetic capacity, leaf respiration and growth in two papaya (Carica papaya) genotypes with different leaf chlorophyll concentrations. AoB PLANTS, 2019, 11, plz013.	1.2	9
150	Consistent diurnal pattern of leaf respiration in the light among contrasting species and climates. New Phytologist, 2022, 236, 71-85.	3.5	9
151	Repeatable, continuous and realâ€time estimates of coupled nitrogenase activity and carbon exchange at the wholeâ€plant scale. Methods in Ecology and Evolution, 2019, 10, 960-970.	2.2	8
152	Respiratory temperature responses of tropical conifers differ with leaf morphology. Functional Ecology, 2021, 35, 1408-1423.	1.7	8
153	A mechanism of expansion: Arctic deciduous shrubs capitalize on warming-induced nutrient availability. Oecologia, 2020, 192, 671-685.	0.9	8
154	Model responses to CO₂ and warming are underestimated without explicit representation of Arctic smallâ€mammal grazing. Ecological Applications, 2022, 32, e02478.	1.8	8
155	Dendrochonological Potential of Japanese Barberry (Berberis thunbergii): A Case Study in the Black Rock Forest, New York. Tree-Ring Research, 2008, 64, 115-124.	0.4	7
156	Late growing season carbon subsidy in native gymnosperms in a northern temperate forest. Tree Physiology, 2019, 39, 971-982.	1.4	6
157	The growth response of Alternanthera philoxeroides in a simulated post-combustion emission with ultrahigh [CO2] and acidic pollutants. Environmental Pollution, 2009, 157, 2118-2125.	3.7	5
158	High alternative oxidase activity in cold soils and its implication to the Dole Effect. Geophysical Research Letters, 2012, 39, .	1.5	5
159	Spectral determination of concentrations of functionally diverse pigments in increasingly complex arctic tundra canopies. Oecologia, 2016, 182, 85-97.	0.9	5
160	Growth and physiology of a dominant understory shrub, Hamamelis virginiana, following canopy disturbance in a temperate hardwood forest. Canadian Journal of Forest Research, 2017, 47, 193-202.	0.8	5
161	High Leaf Respiration Rates May Limit the Success of White Spruce Saplings Growing in the Kampfzone at the Arctic Treeline. Frontiers in Plant Science, 2021, 12, 746464.	1.7	5
162	Hill Slope Variations in Chlorophyll Fluorescence Indices and Leaf Traits in a Small Arctic Watershed. Arctic, Antarctic, and Alpine Research, 2013, 45, 39-49.	0.4	4

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163	Stripâ€Bark Morphology and Radial Growth Trends in Ancient Pinus sibirica Trees From Central Mongolia. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 945-959.	1.3	4
164	Contrasting physiological traits of shade tolerance in Pinus and Podocarpaceae native to a tropical Vietnamese forest: insight from an aberrant flat-leaved pine. Tree Physiology, 2021, 41, 223-239.	1.4	4
165	Photosynthesis, fluorescence, and biomass responses of white oak seedlings to urban soil and air temperature effects. Physiologia Plantarum, 2021, 172, 1535-1549.	2.6	4
166	Small herbivores with big impacts: Tundra voles (Microtus oeconomus) alter postâ€fire ecosystem dynamics. Ecology, 2022, 103, e3689.	1.5	4
167	Variation in White spruce needle respiration at the species range limits: A potential impediment to Northern expansion. Plant, Cell and Environment, 2022, 45, 2078-2092.	2.8	4
168	Scaling foliar respiration to the stand level throughout the growing season in a Quercus rubra forest. Tree Physiology, 2008, 28, 637-646.	1.4	3
169	Seasonal patterns of native plant cover and leaf trait variation on New York City green roofs. Urban Ecosystems, 0, , 1.	1.1	3
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