

Danielle A Way

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

7,683
citations

94381

37
h-index

54882

84
g-index

86
all docs

86
docs citations

86
times ranked

9563
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature response of photosynthesis in C3, C4, and CAM plants: temperature acclimation and temperature adaptation. <i>Photosynthesis Research</i> , 2014, 119, 101-117.	1.6	756
2	A multi-species synthesis of physiological mechanisms in drought-induced tree mortality. <i>Nature Ecology and Evolution</i> , 2017, 1, 1285-1291.	3.4	739
3	Differential responses to changes in growth temperature between trees from different functional groups and biomes: a review and synthesis of data. <i>Tree Physiology</i> , 2010, 30, 669-688.	1.4	663
4	Plant carbon metabolism and climate change: elevated CO_2 and temperature impacts on photosynthesis, photorespiration and respiration. <i>New Phytologist</i> , 2019, 221, 32-49.	3.5	571
5	A roadmap for improving the representation of photosynthesis in Earth system models. <i>New Phytologist</i> , 2017, 213, 22-42.	3.5	365
6	Photoperiod constraints on tree phenology, performance and migration in a warming world. <i>Plant, Cell and Environment</i> , 2015, 38, 1725-1736.	2.8	274
7	Thermal acclimation of photosynthesis: on the importance of adjusting our definitions and accounting for thermal acclimation of respiration. <i>Photosynthesis Research</i> , 2014, 119, 89-100.	1.6	258
8	Sunflecks in trees and forests: from photosynthetic physiology to global change biology. <i>Tree Physiology</i> , 2012, 32, 1066-1081.	1.4	248
9	Photoperiodic regulation of the seasonal pattern of photosynthetic capacity and the implications for carbon cycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8612-8617.	3.3	247
10	Rubisco, Rubisco activase, and global climate change. <i>Journal of Experimental Botany</i> , 2008, 59, 1581-1595.	2.4	220
11	Role of aquaporins in determining transpiration and photosynthesis in water-stressed plants: crop water-use efficiency, growth and yield. <i>Plant, Cell and Environment</i> , 2015, 38, 1785-1793.	2.8	195
12	Acclimation and adaptation components of the temperature dependence of plant photosynthesis at the global scale. <i>New Phytologist</i> , 2019, 222, 768-784.	3.5	171
13	Non-structural carbohydrates in woody plants compared among laboratories. <i>Tree Physiology</i> , 2015, 35, tpv073.	1.4	163
14	Leaf day respiration: low CO_2 flux but high significance for metabolism and carbon balance. <i>New Phytologist</i> , 2017, 216, 986-1001.	3.5	159
15	Elevated growth temperatures reduce the carbon gain of black spruce [<i>Picea mariana</i> (Mill.) B.S.P.]. <i>Global Change Biology</i> , 2008, 14, 624-636.	4.2	154
16	Plant heat stress: Concepts directing future research. <i>Plant, Cell and Environment</i> , 2021, 44, 1992-2005.	2.8	144
17	Growth and physiological responses of isohydric and anisohydric poplars to drought. <i>Journal of Experimental Botany</i> , 2015, 66, 4373-4381.	2.4	137
18	Thermal acclimation of photosynthesis in black spruce [<i>Picea mariana</i> (Mill.) B.S.P.]. <i>Plant, Cell and Environment</i> , 2008, 31, 1250-1262.	2.8	129

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19	Increasing water use efficiency along the C3 to C4 evolutionary pathway: a stomatal optimization perspective. <i>Journal of Experimental Botany</i> , 2014, 65, 3683-3693.	2.4	101
20	The space–time continuum: the effects of elevated CO_2 and temperature on trees and the importance of scaling. <i>Plant, Cell and Environment</i> , 2015, 38, 991-1007.	2.8	100
21	Reviews and syntheses: Carbon use efficiency from organisms to ecosystems – definitions, theories, and empirical evidence. <i>Biogeosciences</i> , 2018, 15, 5929-5949.	1.3	98
22	Response of ecosystem intrinsic water use efficiency and gross primary productivity to rising vapor pressure deficit. <i>Environmental Research Letters</i> , 2019, 14, 074023.	2.2	94
23	Systemic effects of rising atmospheric vapor pressure deficit on plant physiology and productivity. <i>Global Change Biology</i> , 2021, 27, 1704-1720.	4.2	92
24	Contrasting acclimation responses to elevated CO_2 and warming between an evergreen and a deciduous boreal conifer. <i>Global Change Biology</i> , 2020, 26, 3639-3657.	4.2	62
25	Tree phenology responses to warming: spring forward, fall back?. <i>Tree Physiology</i> , 2011, 31, 469-471.	1.4	59
26	CO_2 studies remain key to understanding a future world. <i>New Phytologist</i> , 2017, 214, 34-40.	3.5	56
27	Enhanced isoprene-related tolerance of heat- and light-stressed photosynthesis at low, but not high, CO_2 concentrations. <i>Oecologia</i> , 2011, 166, 273-282.	0.9	51
28	Greater seed production in elevated CO_2 is not accompanied by reduced seed quality in <i>Pinus taeda</i> L. <i>Global Change Biology</i> , 2010, 16, 1046-1056.	4.2	50
29	Soil-mediated effects of subambient to increased carbon dioxide on grassland productivity. <i>Nature Climate Change</i> , 2012, 2, 742-746.	8.1	49
30	Carbon fluxes acclimate more strongly to elevated growth temperatures than to elevated CO_2 concentrations in a northern conifer. <i>Global Change Biology</i> , 2016, 22, 2913-2928.	4.2	49
31	Two decades of sunfleck research: looking back to move forward. <i>Tree Physiology</i> , 2012, 32, 1059-1061.	1.4	48
32	Contribution of Various Carbon Sources Toward Isoprene Biosynthesis in Poplar Leaves Mediated by Altered Atmospheric CO_2 Concentrations. <i>PLoS ONE</i> , 2012, 7, e32387.	1.1	47
33	Climate warming causes intensification of the hydrological cycle, resulting in changes to the vernal and autumnal windows in a northern temperate forest. <i>Hydrological Processes</i> , 2015, 29, 3519-3534.	1.1	47
34	Elevated growth temperatures alter hydraulic characteristics in trembling aspen (<i>Populus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 2013, 36, 103-115.	2.8	44
35	Combined effects of rising $[\text{CO}_2]$ and temperature on boreal forests: growth, physiology and limitations. <i>Botany</i> , 2014, 92, 425-436.	0.5	44
36	On the variability of the ecosystem response to elevated atmospheric CO_2 across spatial and temporal scales at the Duke Forest FACE experiment. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 367-383.	1.9	41

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37	Tracking the origins of the Kok effect, 70 years after its discovery. <i>New Phytologist</i> , 2017, 214, 506-510.	3.5	40
38	Physiological acclimation dampens initial effects of elevated temperature and atmospheric CO ₂ concentration in mature boreal Norway spruce. <i>Plant, Cell and Environment</i> , 2018, 41, 300-313.	2.8	40
39	Civil disobedience movements such as School Strike for the Climate are raising public awareness of the climate change emergency. <i>Global Change Biology</i> , 2020, 26, 1042-1044.	4.2	40
40	Essential outcomes for COP26. <i>Global Change Biology</i> , 2022, 28, 1-3.	4.2	40
41	Increasing atmospheric CO ₂ reduces metabolic and physiological differences between isoprene- and non-isoprene-emitting poplars. <i>New Phytologist</i> , 2013, 200, 534-546.	3.5	39
42	Kudzu [<i>Pueraria montana</i> (Lour.) Merr. Variety lobata]: A new source of carbohydrate for bioethanol production. <i>Biomass and Bioenergy</i> , 2009, 33, 57-61.	2.9	36
43	Contrasting acclimation abilities of two dominant boreal conifers to elevated CO ₂ and temperature. <i>Plant, Cell and Environment</i> , 2018, 41, 1331-1345.	2.8	36
44	Water transport through tall trees: A vertically explicit, analytical model of xylem hydraulic conductance in stems. <i>Plant, Cell and Environment</i> , 2018, 41, 1821-1839.	2.8	36
45	Warming delays autumn declines in photosynthetic capacity in a boreal conifer, Norway spruce (<i>Picea abies</i>). <i>Tree Physiology</i> , 2015, 35, 1303-1313.	1.4	35
46	Can leaf net photosynthesis acclimate to rising and more variable temperatures?. <i>Plant, Cell and Environment</i> , 2019, 42, 1913-1928.	2.8	35
47	On the role of ecological adaptation and geographic distribution in the response of trees to climate change. <i>Tree Physiology</i> , 2011, 31, 1273-1276.	1.4	34
48	Diurnal and seasonal variation in light and dark respiration in field-grown <i>Eucalyptus pauciflora</i> . <i>Tree Physiology</i> , 2015, 35, 840-849.	1.4	33
49	Autumn photosynthetic decline and growth cessation in seedlings of white spruce are decoupled under warming and photoperiod manipulations. <i>Plant, Cell and Environment</i> , 2017, 40, 1296-1316.	2.8	32
50	Seed quality and carbon primary metabolism. <i>Plant, Cell and Environment</i> , 2019, 42, 2776-2788.	2.8	32
51	Responses of respiration in the light to warming in field-grown trees: a comparison of the thermal sensitivity of the Kok and Laisk methods. <i>New Phytologist</i> , 2019, 222, 132-143.	3.5	32
52	How well do stomatal conductance models perform on closing plant carbon budgets? A test using seedlings grown under current and elevated air temperatures. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	28
53	Limited thermal acclimation of photosynthesis in tropical montane tree species. <i>Global Change Biology</i> , 2021, 27, 4860-4878.	4.2	26
54	A hot and dry future: warming effects on boreal tree drought tolerance. <i>Tree Physiology</i> , 2013, 33, 1003-1005.	1.4	23

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55	Improving models of photosynthetic thermal acclimation: Which parameters are most important and how many should be modified?. <i>Global Change Biology</i> , 2018, 24, 1580-1598.	4.2	23
56	A reporting format for leaf-level gas exchange data and metadata. <i>Ecological Informatics</i> , 2021, 61, 101232.	2.3	22
57	How well do growing season dynamics of photosynthetic capacity correlate with leaf biochemistry and climate fluctuations?. <i>Tree Physiology</i> , 2017, 37, 879-888.	1.4	21
58	Parasitic plants and forests: a climate change perspective. <i>Tree Physiology</i> , 2011, 31, 1-2.	1.4	20
59	What lies between: the evolution of stomatal traits on the road to C ₄ photosynthesis. <i>New Phytologist</i> , 2012, 193, 291-293.	3.5	18
60	Is the Kok effect a respiratory phenomenon? Metabolic insight using ¹³ C labeling in <i>Helianthus annuus</i> leaves. <i>New Phytologist</i> , 2020, 228, 1243-1255.	3.5	18
61	Will rising CO ₂ and temperatures exacerbate the vulnerability of trees to drought?. <i>Tree Physiology</i> , 2013, 33, 775-778.	1.4	17
62	Estimation of the whole-plant CO ₂ compensation point of tobacco (<i>Nicotiana tabacum</i> L.). <i>Global Change Biology</i> , 2005, 11, 050922094851001-???	4.2	16
63	Just the right temperature. <i>Nature Ecology and Evolution</i> , 2019, 3, 718-719.	3.4	15
64	The effect of carbon and nutrient loading during nursery culture on the growth of black spruce seedlings: a six-year field study. <i>New Forests</i> , 2007, 34, 307-312.	0.7	11
65	Tree competition and defense against herbivores: currency matters when counting the cost. <i>Tree Physiology</i> , 2011, 31, 579-581.	1.4	11
66	The bigger they are, the harder they fall: CO ₂ concentration and tree size affect drought tolerance. <i>Tree Physiology</i> , 2011, 31, 115-116.	1.4	11
67	Wheat respiratory O ₂ consumption falls with night warming alongside greater respiratory CO ₂ loss and reduced biomass. <i>Journal of Experimental Botany</i> , 2022, 73, 915-926.	2.4	11
68	Late winter light exposure increases summer growth in the grass <i>Poa pratensis</i> : Implications for snow removal experiments and winter melt events. <i>Environmental and Experimental Botany</i> , 2016, 131, 32-38.	2.0	9
69	Photosynthetic and Respiratory Responses of Two Bog Shrub Species to Whole Ecosystem Warming and Elevated CO ₂ at the Boreal-Temperate Ecotone. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	9
70	Modelled net carbon gain responses to climate change in boreal trees: Impacts of photosynthetic parameter selection and acclimation. <i>Global Change Biology</i> , 2019, 25, 1445-1465.	4.2	9
71	Warming induces divergent stomatal dynamics in co-occurring boreal trees. <i>Global Change Biology</i> , 2021, 27, 3079-3094.	4.2	9
72	Warming puts the squeeze on photosynthesis – lessons from tropical trees. <i>Journal of Experimental Botany</i> , 2017, 68, 2073-2077.	2.4	8

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73	Scaling plant responses to high temperature from cell to ecosystem. <i>Plant, Cell and Environment</i> , 2021, 44, 1987-1991.	2.8	8
74	Mechanisms for minimizing height-related stomatal conductance declines in tall vines. <i>Plant, Cell and Environment</i> , 2019, 42, 3121-3139.	2.8	7
75	Reducing model uncertainty of climate change impacts on high latitude carbon assimilation. <i>Global Change Biology</i> , 2022, 28, 1222-1247.	4.2	6
76	Climate-smart agriculture and forestry: maintaining plant productivity in a changing world while minimizing production system effects on climate. <i>Plant, Cell and Environment</i> , 2015, 38, 1683-1685.	2.8	5
77	Warming and elevated CO ₂ alter tamarack C fluxes, growth and mortality: evidence for heat stress-related C starvation in the absence of water stress. <i>Tree Physiology</i> , 2021, 41, 2341-2358.	1.4	5
78	Nitrogen fertilisation influences low CO ₂ effects on plant performance. <i>Functional Plant Biology</i> , 2020, 47, 134.	1.1	5
79	Uncertainty and risk: purchase intentions of new and expectant adopting parents. <i>Young Consumers</i> , 2013, 14, 79-88.	2.3	4
80	Respiratory and Photosynthetic Responses of Antarctic Vascular Plants Are Differentially Affected by CO ₂ Enrichment and Nocturnal Warming. <i>Plants</i> , 2022, 11, 1520.	1.6	4
81	The effects of rising CO ₂ concentrations on terrestrial systems: scaling it up. <i>New Phytologist</i> , 2021, 229, 2383-2385.	3.5	3
82	Stomatal conductance, not biochemistry, drives low temperature acclimation of photosynthesis in <i>Populus balsamifera</i> , regardless of nitrogen availability. <i>Plant Biology</i> , 2022, 24, 766-779.	1.8	2
83	Announcing <i>GCB</i> reviews – The past, present and future of global change biology at your fingertips. <i>Global Change Biology</i> , 2021, 27, 1326-1327.	4.2	1
84	Chapter 1 Leaf Carbon Flux Responses to Climate Change: Challenges and Opportunities. <i>Advances in Photosynthesis and Respiration</i> , 2021, , 3-13.	1.0	0
85	Chapter 4 Photosynthetic Acclimation to Temperature and CO ₂ : The Role of Leaf Nitrogen. <i>Advances in Photosynthesis and Respiration</i> , 2021, , 79-101.	1.0	0