

Barry A Logan

List of Publications by Year in Descending Order

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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.

76
papers

3,788
citations

33
h-index

61
g-index

79
ext. papers

4,246
ext. citations

4.6
avg, IF

5.17
L-index

#	Paper	IF	Citations
76	Responses of stomatal features and photosynthesis to porewater N enrichment and elevated atmospheric CO in <i>Phragmites australis</i> , the common reed. <i>American Journal of Botany</i> , 2021 , 108, 718-725	2.7	0
75	Seasonal variation in the canopy color of temperate evergreen conifer forests. <i>New Phytologist</i> , 2021 , 229, 2586-2600	9.8	9
74	Chlorophyll a fluorescence illuminates a path connecting plant molecular biology to Earth-system science. <i>Nature Plants</i> , 2021 , 7, 998-1009	11.5	18
73	Wide variation of winter-induced sustained thermal energy dissipation in conifers: a common-garden study. <i>Oecologia</i> , 2021 , 197, 589-598	2.9	0
72	Solar-Induced Fluorescence Does Not Track Photosynthetic Carbon Assimilation Following Induced Stomatal Closure. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087956	4.9	31
71	Decomposing reflectance spectra to track gross primary production in a subalpine evergreen forest. <i>Biogeosciences</i> , 2020 , 17, 4523-4544	4.6	7
70	Photosynthetic properties of juvenile <i>Prumnopitys taxifolia</i> (Podocarpaceae), a divaricate and heteroblastic conifer. <i>New Zealand Journal of Botany</i> , 2020 , 58, 19-29	1	
69	Mechanistic evidence for tracking the seasonality of photosynthesis with solar-induced fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 11640-11645	11.5	116
68	Sustained Nonphotochemical Quenching Shapes the Seasonal Pattern of Solar-Induced Fluorescence at a High-Elevation Evergreen Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 2005-2020	3.7	15
67	When are foliar anthocyanins useful to plants? Re-evaluation of the photoprotection hypothesis using <i>Arabidopsis thaliana</i> mutants that differ in anthocyanin accumulation. <i>Environmental and Experimental Botany</i> , 2018 , 154, 11-22	5.9	56
66	Limitations to winter and spring photosynthesis of a Rocky Mountain subalpine forest. <i>Agricultural and Forest Meteorology</i> , 2018 , 252, 241-255	5.8	45
65	Seasonal acclimatization of thallus proline contents of <i>Mastocarpus stellatus</i> and <i>Chondrus crispus</i> : intertidal rhodophytes that differ in freezing tolerance. <i>Journal of Phycology</i> , 2018 , 54, 419-422	3	0
64	Photoprotection from anthocyanins and thermal energy dissipation in senescing red and green <i>Sambucus canadensis</i> peduncles. <i>Environmental and Experimental Botany</i> , 2018 , 148, 27-34	5.9	11
63	Reprint of Photoprotection from anthocyanins and thermal energy dissipation in senescing red and green <i>Sambucus canadensis</i> peduncles. <i>Environmental and Experimental Botany</i> , 2018 , 154, 4-10	5.9	1
62	Needle properties of host white spruce (<i>Picea glauca</i> [Moench] Voss) experiencing eastern dwarf mistletoe (<i>Arceuthobium pusillum</i> Peck) infections of differing severity. <i>Botany</i> , 2017 , 95, 295-305	1.3	4
61	Xanthophyll Cycle Activity in Two Prominent Arctic Shrub Species. <i>Arctic, Antarctic, and Alpine Research</i> , 2017 , 49, 277-289	1.8	9
60	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

59	Spectral determination of concentrations of functionally diverse pigments in increasingly complex arctic tundra canopies. <i>Oecologia</i> , 2016 , 182, 85-97	2.9	5
58	Photoprotective response to chilling differs among high and low latitude <i>Larrea divaricata</i> grown in a common garden. <i>Journal of Arid Environments</i> , 2015 , 120, 51-54	2.5	7
57	Examining the photoprotection hypothesis for adaxial foliar anthocyanin accumulation by revisiting comparisons of green- and red-leafed varieties of coleus (<i>Solenostemon scutellarioides</i>). <i>Photosynthesis Research</i> , 2015 , 124, 267-74	3.7	31
56	Functional significance of anthocyanins in peduncles of <i>Sambucus nigra</i> . <i>Environmental and Experimental Botany</i> , 2015 , 119, 18-26	5.9	18
55	Rising temperature may negate the stimulatory effect of rising CO on growth and physiology of Wollemi pine (<i>Wollemia nobilis</i>). <i>Functional Plant Biology</i> , 2015 , 42, 836-850	2.7	14
54	Impacts of eastern dwarf mistletoe on the stem hydraulics of red spruce and white spruce, two host species with different drought tolerances and responses to infection. <i>Trees - Structure and Function</i> , 2015 , 29, 475-486	2.6	12
53	Assessing leaf photoprotective mechanisms using terrestrial LiDAR: towards mapping canopy photosynthetic performance in three dimensions. <i>New Phytologist</i> , 2014 , 201, 344-356	9.8	45
52	Context, Quantification, and Measurement Guide for Non-Photochemical Quenching of Chlorophyll Fluorescence. <i>Advances in Photosynthesis and Respiration</i> , 2014 , 187-201	1.7	14
51	Impact of eastern dwarf mistletoe (<i>Arceuthobium pusillum</i>) on host white spruce (<i>Picea glauca</i>) development, growth and performance across multiple scales. <i>Physiologia Plantarum</i> , 2013 , 147, 502-13	4.6	16
50	Industrial-age changes in atmospheric [CO ₂] and temperature differentially alter responses of faster- and slower-growing <i>Eucalyptus</i> seedlings to short-term drought. <i>Tree Physiology</i> , 2013 , 33, 475-88	4.2	28
49	Impact of variable [CO ₂] and temperature on water transport structure-function relationships in <i>Eucalyptus</i> . <i>Tree Physiology</i> , 2011 , 31, 945-52	4.2	21
48	Leaf photosynthesis, respiration and stomatal conductance in six <i>Eucalyptus</i> species native to mesic and xeric environments growing in a common garden. <i>Tree Physiology</i> , 2011 , 31, 997-1006	4.2	37
47	Photosynthetic responses of two eucalypts to industrial-age changes in atmospheric [CO ₂] and temperature. <i>Plant, Cell and Environment</i> , 2010 , 33, 1671-81	8.4	78
46	Exposure to preindustrial, current and future atmospheric CO ₂ and temperature differentially affects growth and photosynthesis in <i>Eucalyptus</i> . <i>Global Change Biology</i> , 2010 , 16, 303-319	11.4	97
45	Loss of psbS expression reduces vegetative growth, reproductive output, and light-limited, but not light-saturated, photosynthesis in <i>Arabidopsis thaliana</i> (Brassicaceae) grown in temperate light environments. <i>American Journal of Botany</i> , 2010 , 97, 644-9	2.7	18
44	Inter- and intra-specific variation in nocturnal water transport in <i>Eucalyptus</i> . <i>Tree Physiology</i> , 2010 , 30, 586-96	4.2	76
43	Excitation pressure as a measure of the sensitivity of photosystem II to photoinactivation. <i>Functional Plant Biology</i> , 2010 , 37, 943	2.7	41
42	Examination of pre-industrial and future [CO ₂] reveals the temperature-dependent CO ₂ sensitivity of light energy partitioning at PSII in eucalypts. <i>Functional Plant Biology</i> , 2010 , 37, 1041	2.7	18

41	Seasonal response of photosynthetic electron transport and energy dissipation in the eighth year of exposure to elevated atmospheric CO ₂ (FACE) in <i>Pinus taeda</i> (loblolly pine). <i>Tree Physiology</i> , 2009 , 29, 789-97	4.2	16
40	Using chlorophyll fluorescence to assess the fraction of absorbed light allocated to thermal dissipation of excess excitation. <i>Physiologia Plantarum</i> , 2008 , 98, 253-264	4.6	541
39	The French paradox: Determining the superoxide-scavenging capacity of red wine and other beverages. <i>Biochemistry and Molecular Biology Education</i> , 2008 , 36, 39-42	1.3	7
38	Reactive Oxygen Species and Photosynthesis 2007 , 250-267		11
37	Oxygen Metabolism and Stress Physiology. <i>Advances in Photosynthesis and Respiration</i> , 2007 , 539-553	1.7	3
36	Photosynthetic acclimation in the context of structural constraints to carbon export from leaves. <i>Photosynthesis Research</i> , 2007 , 94, 455-66	3.7	49
35	Viewpoint: Avoiding common pitfalls of chlorophyll fluorescence analysis under field conditions. <i>Functional Plant Biology</i> , 2007 , 34, 853-859	2.7	106
34	Impact of eastern dwarf mistletoe (<i>Arceuthobium pusillum</i>) infection on the needles of red spruce (<i>Picea rubens</i>) and white spruce (<i>Picea glauca</i>): oxygen exchange, morphology and composition. <i>Tree Physiology</i> , 2006 , 26, 1325-32	4.2	26
33	Compensation for PSII photoinactivation by regulated non-photochemical dissipation influences the impact of photoinactivation on electron transport and CO ₂ assimilation. <i>Plant and Cell Physiology</i> , 2006 , 47, 437-46	4.9	17
32	The role of antioxidant enzymes in photoprotection. <i>Photosynthesis Research</i> , 2006 , 88, 119-32	3.7	91
31	Field-grown cotton plants with elevated activity of chloroplastic glutathione reductase exhibit no significant alteration of diurnal or seasonal patterns of excitation energy partitioning and CO ₂ fixation. <i>Field Crops Research</i> , 2005 , 94, 165-175	5.5	16
30	Previous-year reproduction reduces photosynthetic capacity and slows lifetime growth in females of a neotropical tree. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8051-5	11.5	66
29	Seasonal acclimatization of antioxidants and photosynthesis in <i>Chondrus crispus</i> and <i>Mastocarpus stellatus</i> , two co-occurring red algae with differing stress tolerances. <i>Biological Bulletin</i> , 2004 , 207, 225-32	1.5	38
28	Effects of lincomycin on PSII efficiency, non-photochemical quenching, D1 protein and xanthophyll cycle during photoinhibition and recovery. <i>Functional Plant Biology</i> , 2004 , 31, 803-813	2.7	28
27	Transgenic overproduction of glutathione reductase does not protect cotton, <i>Gossypium hirsutum</i> (Malvaceae), from photoinhibition during growth under chilling conditions. <i>American Journal of Botany</i> , 2003 , 90, 1400-3	2.7	36
26	Elevated chloroplastic glutathione reductase activities decrease chilling-induced photoinhibition by increasing rates of photochemistry, but not thermal energy dissipation, in transgenic cotton. <i>Functional Plant Biology</i> , 2003 , 30, 101-110	2.7	62
25	Seasonal Acclimation of Photosynthesis in Eastern Hemlock and Partridgeberry in Different Light Environments. <i>Northeastern Naturalist</i> , 2003 , 10, 1	0.5	
24	Predicting the extent of photosystem II photoinactivation using chlorophyll a fluorescence parameters measured during illumination. <i>Plant and Cell Physiology</i> , 2003 , 44, 1064-70	4.9	21

23	SEASONAL ACCLIMATION OF PHOTOSYNTHESIS IN EASTERN HEMLOCK AND PARTRIDGEBERRY IN DIFFERENT LIGHT ENVIRONMENTS. <i>Northeastern Naturalist</i> , 2003 , 10, 1-16	0.5	9
22	Nocturnally retained zeaxanthin does not remain engaged in a state primed for energy dissipation during the summer in two Yucca species growing in the Mojave Desert. <i>Plant, Cell and Environment</i> , 2002 , 25, 95-103	8.4	55
21	Photosynthetic Characteristics of Eastern Dwarf Mistletoe (<i>Arceuthobium pusillum</i> Peck) and its Effects on the Needles of Host White Spruce (<i>Picea glauca</i> [Moench] Voss). <i>Plant Biology</i> , 2002 , 4, 740-745	2.7	25
20	Enhanced photochemical light utilization and decreased chilling-induced photoinhibition of photosystem II in cotton overexpressing genes encoding chloroplast-targeted antioxidant enzymes. <i>Physiologia Plantarum</i> , 2001 , 113, 323-331	4.6	67
19	Biochemistry and physiology of foliar isoprene production. <i>Trends in Plant Science</i> , 2000 , 5, 477-81	13.1	98
18	Energy dissipation and radical scavenging by the plant phenylpropanoid pathway. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000 , 355, 1499-510	5.8	288
17	Ecophysiology of the Xanthophyll Cycle. <i>Advances in Photosynthesis and Respiration</i> , 1999 , 245-269	1.7	60
16	Thermotolerance of leaf discs from four isoprene-emitting species is not enhanced by exposure to exogenous isoprene. <i>Plant Physiology</i> , 1999 , 120, 821-6	6.6	58
15	Rapid changes in xanthophyll cycle-dependent energy dissipation and photosystem II efficiency in two vines, <i>Stephania japonica</i> and <i>Smilax australis</i> , growing in the understory of an open Eucalyptus forest. <i>Plant, Cell and Environment</i> , 1999 , 22, 125-136	8.4	112
14	The Effect of Isoprene on the Properties of Spinach Thylakoids and Phosphatidylcholine Liposomes. <i>Plant Biology</i> , 1999 , 1, 602-606	3.7	14
13	Effect of nitrogen limitation on foliar antioxidants in relationship to other metabolic characteristics. <i>Planta</i> , 1999 , 209, 213-220	4.7	94
12	Acclimation of Photosynthesis to the Environment 1999 , 477-512		13
11	The Effect of Isoprene on the Properties of Spinach Thylakoids and Phosphatidylcholine Liposomes 1999 , 1, 602		1
10	Positive correlation between levels of retained zeaxanthin + antheraxanthin and degree of photoinhibition in shade leaves of <i>Schefflera arboricola</i> (Hayata) Merrill. <i>Planta</i> , 1998 , 205, 367-374	4.7	77
9	Seasonal differences in xanthophyll cycle characteristics and antioxidants in <i>Mahonia repens</i> growing in different light environments. <i>Oecologia</i> , 1998 , 116, 9-17	2.9	49
8	Seasonal differences in foliar content of chlorogenic acid, a phenylpropanoid antioxidant, in <i>Mahonia repens</i> . <i>Plant, Cell and Environment</i> , 1998 , 21, 513-521	8.4	94
7	Antioxidants and xanthophyll cycle-dependent energy dissipation in <i>Cucurbita pepo</i> L. and <i>Vinca major</i> L. acclimated to four growth PPFs in the field. <i>Journal of Experimental Botany</i> , 1998 , 49, 1869-1879	7.9	90
6	Antioxidants and xanthophyll cycle-dependent energy dissipation in <i>Cucurbita pepo</i> L. and <i>Vinca major</i> L. upon a sudden increase in growth PPF in the field. <i>Journal of Experimental Botany</i> , 1998 , 49, 1881-1888	7	45

5	Seasonal differences in xanthophyll cycle characteristics and antioxidants in. <i>Oecologia</i> , 1998 , 116, 9	2.9	75
4	Photochemistry and xanthophyll cycle-dependent energy dissipation in differently oriented cladodes of <i>Opuntia stricta</i> during the winter. <i>Functional Plant Biology</i> , 1998 , 25, 95	2.7	6
3	The Response of Xanthophyll Cycle-dependent Energy Dissipation in <i>Alocasia brisbanensis</i> to Sunflecks in a Subtropical Rainforest. <i>Functional Plant Biology</i> , 1997 , 24, 27	2.7	20
2	Acclimation of Foliar Antioxidant Systems to Growth Irradiance in Three Broad-Leaved Evergreen Species. <i>Plant Physiology</i> , 1996 , 112, 1631-1640	6.6	270
1	Acclimation of leaf carotenoid composition and ascorbate levels to gradients in the light environment within an Australian rainforest. <i>Plant, Cell and Environment</i> , 1996 , 19, 1083-1090	8.4	111