

Barry A Logan

List of Publications by Year in descending order

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78
papers

4,797
citations

94269

37
h-index

98622

67
g-index

79
all docs

79
docs citations

79
times ranked

4935
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel insights on the linkage between enhanced photoprotection and oak decline. <i>Tree Physiology</i> , 2022, 42, 203-207.	1.4	2
2	Seasonal variation in the canopy color of temperate evergreen conifer forests. <i>New Phytologist</i> , 2021, 229, 2586-2600.	3.5	30
3	Responses of stomatal features and photosynthesis to porewater N enrichment and elevated atmospheric CO ₂ in <i>Phragmites australis</i> , the common reed. <i>American Journal of Botany</i> , 2021, 108, 718-725.	0.8	2
4	Chlorophyll a fluorescence illuminates a path connecting plant molecular biology to Earth-system science. <i>Nature Plants</i> , 2021, 7, 998-1009.	4.7	88
5	Wide variation of winter-induced sustained thermal energy dissipation in conifers: a common-garden study. <i>Oecologia</i> , 2021, 197, 589-598.	0.9	4
6	Beyond APAR and NPQ: Factors Coupling and Decoupling SIF and GPP Across Scales. , 2021, , .		0
7	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.	0.8	0
8	Solar-induced Fluorescence Does Not Track Photosynthetic Carbon Assimilation Following Induced Stomatal Closure. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087956.	1.5	78
9	Decomposing reflectance spectra to track gross primary production in a subalpine evergreen forest. <i>Biogeosciences</i> , 2020, 17, 4523-4544.	1.3	20
10	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.	1.3	32
11	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.	3.3	219
12	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.	2.0	92
13	Limitations to winter and spring photosynthesis of a Rocky Mountain subalpine forest. <i>Agricultural and Forest Meteorology</i> , 2018, 252, 241-255.	1.9	72
14	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.	1.0	1
15	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.	2.0	14
16	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.	2.0	2
17	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.	0.5	6
18	Xanthophyll Cycle Activity in Two Prominent Arctic Shrub Species. <i>Arctic, Antarctic, and Alpine Research</i> , 2017, 49, 277-289.	0.4	10

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19	Spectral determination of concentrations of functionally diverse pigments in increasingly complex arctic tundra canopies. <i>Oecologia</i> , 2016, 182, 85-97.	0.9	5
20	LiDAR canopy radiation model reveals patterns of photosynthetic partitioning in an Arctic shrub. <i>Agricultural and Forest Meteorology</i> , 2016, 221, 78-93.	1.9	28
21	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.	0.9	13
22	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.	1.2	7
23	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, 267-274.	1.6	42
24	Functional significance of anthocyanins in peduncles of <i>Sambucus nigra</i> . <i>Environmental and Experimental Botany</i> , 2015, 119, 18-26.	2.0	21
25	Rising temperature may negate the stimulatory effect of rising CO ₂ on growth and physiology of Wollemi pine (<i>Wollemia nobilis</i>). <i>Functional Plant Biology</i> , 2015, 42, 836.	1.1	18
26	Assessing leaf photoprotective mechanisms using terrestrial Li DAR : towards mapping canopy photosynthetic performance in three dimensions. <i>New Phytologist</i> , 2014, 201, 344-356.	3.5	52
27	Context, Quantification, and Measurement Guide for Non-Photochemical Quenching of Chlorophyll Fluorescence. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 187-201.	1.0	20
28	Impact of eastern dwarf mistletoe (<i>Arceuthobium pusillum</i>) on host white spruce (<i>Picea</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2013, 147, 502-513.	2.6	19
29	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, 475-488.	1.4	33
30	Impact of variable [CO ₂] and temperature on water transport structure-function relationships in <i>Eucalyptus</i> . <i>Tree Physiology</i> , 2011, 31, 945-952.	1.4	25
31	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.	1.4	49
32	Photosynthetic responses of two eucalypts to industrial-age changes in atmospheric [CO ₂] and temperature. <i>Plant, Cell and Environment</i> , 2010, 33, 1671-1681.	2.8	92
33	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.	4.2	111
34	Loss of <i>psbS</i> 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, 644-649.	0.8	22
35	Inter- and intra-specific variation in nocturnal water transport in <i>Eucalyptus</i> . <i>Tree Physiology</i> , 2010, 30, 586-596.	1.4	97
36	Excitation pressure as a measure of the sensitivity of photosystem II to photoinactivation. <i>Functional Plant Biology</i> , 2010, 37, 943.	1.1	44

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37	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.	1.1	20
38	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, 789-797.	1.4	16
39	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.	2.6	647
40	The French paradox. <i>Biochemistry and Molecular Biology Education</i> , 2008, 36, 39-42.	0.5	8
41	Viewpoint: Avoiding common pitfalls of chlorophyll fluorescence analysis under field conditions. <i>Functional Plant Biology</i> , 2007, 34, 853.	1.1	128
42	Oxygen Metabolism and Stress Physiology. <i>Advances in Photosynthesis and Respiration</i> , 2007, , 539-553.	1.0	7
43	Photosynthetic acclimation in the context of structural constraints to carbon export from leaves. <i>Photosynthesis Research</i> , 2007, 94, 455-466.	1.6	52
44	Oxygen Metabolism and Stress Physiology. , 2007, , 539-553.		1
45	The role of antioxidant enzymes in photoprotection. <i>Photosynthesis Research</i> , 2006, 88, 119-132.	1.6	102
46	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, 1325-1332.	1.4	26
47	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, 437-446.	1.5	18
48	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.	2.3	18
49	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, 8051-8055.	3.3	71
50	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, 225-232.	0.7	48
51	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.	1.1	46
52	Seasonal Acclimation of Photosynthesis in Eastern Hemlock and Partridgeberry in Different Light Environments. <i>Northeastern Naturalist</i> , 2003, 10, 1.	0.1	0
53	Predicting the Extent of Photosystem II Photoinactivation Using Chlorophyll a Fluorescence Parameters Measured during Illumination. <i>Plant and Cell Physiology</i> , 2003, 44, 1064-1070.	1.5	23
54	SEASONAL ACCLIMATION OF PHOTOSYNTHESIS IN EASTERN HEMLOCK AND PARTRIDGEBERRY IN DIFFERENT LIGHT ENVIRONMENTS. <i>Northeastern Naturalist</i> , 2003, 10, 1-16.	0.1	12

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55	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, 1400-1403.	0.8	45
56	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.	1.1	77
57	Nocturnally retained zeaxanthin does not remain engaged in a state primed for energy dissipation during the summer in two <i>Yucca</i> species growing in the Mojave Desert. <i>Plant, Cell and Environment</i> , 2002, 25, 95-103.	2.8	63
58	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.	1.8	28
59	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.	2.6	83
60	Biochemistry and physiology of foliar isoprene production. <i>Trends in Plant Science</i> , 2000, 5, 477-481.	4.3	104
61	Energy dissipation and radical scavenging by the plant phenylpropanoid pathway. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000, 355, 1499-1510.	1.8	363
62	Ecophysiology of the Xanthophyll Cycle. <i>Advances in Photosynthesis and Respiration</i> , 1999, , 245-269.	1.0	74
63	Thermotolerance of Leaf Discs from Four Isoprene-Emitting Species Is Not Enhanced by Exposure to Exogenous Isoprene1. <i>Plant Physiology</i> , 1999, 120, 821-826.	2.3	63
64	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 <i>Eucalyptus</i> forest. <i>Plant, Cell and Environment</i> , 1999, 22, 125-136.	2.8	128
65	The Effect of Isoprene on the Properties of Spinach Thylakoids and Phosphatidylcholine Liposomes. <i>Plant Biology</i> , 1999, 1, 602-606.	1.8	15
66	Effect of nitrogen limitation on foliar antioxidants in relationship to other metabolic characteristics. <i>Planta</i> , 1999, 209, 213-220.	1.6	110
67	Acclimation of Photosynthesis to the Environment. , 1999, , 477-512.		17
68	The Effect of Isoprene on the Properties of Spinach Thylakoids and Phosphatidylcholine Liposomes. <i>Plant Biology</i> , 1999, 1, 602-606.	1.8	1
69	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.	1.6	88
70	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.	0.9	69
71	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.	2.8	107
72	Antioxidants and xanthophyll cycle-dependent energy dissipation in <i>Cucurbita pepo</i> L. and <i>Vinca major</i> L. acclimated to four growth PFDs in the field. <i>Journal of Experimental Botany</i> , 1998, 49, 1869-1879.	2.4	104

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73	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 PPFD in the field. <i>Journal of Experimental Botany</i> , 1998, 49, 1881-1888.	2.4	52
74	Seasonal differences in xanthophyll cycle characteristics and antioxidants in. <i>Oecologia</i> , 1998, 116, 9.	0.9	82
75	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.	1.1	19
76	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.	1.1	38
77	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.	2.8	123
78	Acclimation of Foliar Antioxidant Systems to Growth Irradiance in Three Broad-Leaved Evergreen Species. <i>Plant Physiology</i> , 1996, 112, 1631-1640.	2.3	307