

Barry A Logan

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9057831/barry-a-logan-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
75	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
74	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
73	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
72	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
71	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
70	Viewpoint: Avoiding common pitfalls of chlorophyll fluorescence analysis under field conditions. <i>Functional Plant Biology</i> , 2007 , 34, 853-859	2.7	106
69	Biochemistry and physiology of foliar isoprene production. <i>Trends in Plant Science</i> , 2000 , 5, 477-81	13.1	98
68	Exposure to preindustrial, current and future atmospheric CO ₂ and temperature differentially affects growth and photosynthesis in Eucalyptus. <i>Global Change Biology</i> , 2010 , 16, 303-319	11.4	97
67	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
66	Effect of nitrogen limitation on foliar antioxidants in relationship to other metabolic characteristics. <i>Planta</i> , 1999 , 209, 213-220	4.7	94
65	The role of antioxidant enzymes in photoprotection. <i>Photosynthesis Research</i> , 2006 , 88, 119-32	3.7	91
64	Antioxidants and xanthophyll cycle-dependent energy dissipation in <i>Cucurbita pepo</i> L. and <i>Vinca major</i> L. acclimated to four growth PPFDs in the field. <i>Journal of Experimental Botany</i> , 1998 , 49, 1869-1879	7.9	90
63	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
62	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
61	Inter- and intra-specific variation in nocturnal water transport in Eucalyptus. <i>Tree Physiology</i> , 2010 , 30, 586-96	4.2	76
60	Seasonal differences in xanthophyll cycle characteristics and antioxidants in. <i>Oecologia</i> , 1998 , 116, 9	2.9	75

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	4.6	67
58	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
57	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
56	Ecophysiology of the Xanthophyll Cycle. <i>Advances in Photosynthesis and Respiration</i> , 1999 , 245-269	1.7	60
55	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
54	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
53	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	8.4	55
52	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
51	Photosynthetic acclimation in the context of structural constraints to carbon export from leaves. <i>Photosynthesis Research</i> , 2007 , 94, 455-66	3.7	49
50	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
49	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
48	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	7	45
47	Excitation pressure as a measure of the sensitivity of photosystem II to photoinactivation. <i>Functional Plant Biology</i> , 2010 , 37, 943	2.7	41
46	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, 225-325	1.5	38
45	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
44	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
43	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
42	Solar-Induced Fluorescence Does Not Track Photosynthetic Carbon Assimilation Following Induced Stomatal Closure. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087956	4.9	31

41	Industrial-age changes in atmospheric [CO ₂] and temperature differentially alter responses of faster- and slower-growing Eucalyptus seedlings to short-term drought. <i>Tree Physiology</i> , 2013 , 33, 475-88	4.2	28
40	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
39	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
38	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
37	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
36	Impact of variable [CO ₂] and temperature on water transport structure-function relationships in Eucalyptus. <i>Tree Physiology</i> , 2011 , 31, 945-52	4.2	21
35	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
34	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
33	Functional significance of anthocyanins in peduncles of <i>Sambucus nigra</i> . <i>Environmental and Experimental Botany</i> , 2015 , 119, 18-26	5.9	18
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	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

23	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
22	The Effect of Isoprene on the Properties of Spinach Thylakoids and Phosphatidylcholine Liposomes. <i>Plant Biology</i> , 1999 , 1, 602-606	3.7	14
21	Acclimation of Photosynthesis to the Environment 1999 , 477-512		13
20	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
19	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
18	Reactive Oxygen Species and Photosynthesis 2007 , 250-267		11
17	Xanthophyll Cycle Activity in Two Prominent Arctic Shrub Species. <i>Arctic, Antarctic, and Alpine Research</i> , 2017 , 49, 277-289	1.8	9
16	SEASONAL ACCLIMATION OF PHOTOSYNTHESIS IN EASTERN HEMLOCK AND PARTRIDGEBERRY IN DIFFERENT LIGHT ENVIRONMENTS. <i>Northeastern Naturalist</i> , 2003 , 10, 1-16	0.5	9
15	Seasonal variation in the canopy color of temperate evergreen conifer forests. <i>New Phytologist</i> , 2021 , 229, 2586-2600	9.8	9
14	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
13	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
12	Decomposing reflectance spectra to track gross primary production in a subalpine evergreen forest. <i>Biogeosciences</i> , 2020 , 17, 4523-4544	4.6	7
11	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
10	Spectral determination of concentrations of functionally diverse pigments in increasingly complex arctic tundra canopies. <i>Oecologia</i> , 2016 , 182, 85-97	2.9	5
9	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
8	Oxygen Metabolism and Stress Physiology. <i>Advances in Photosynthesis and Respiration</i> , 2007 , 539-553	1.7	3
7	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
6	The Effect of Isoprene on the Properties of Spinach Thylakoids and Phosphatidylcholine Liposomes 1999 , 1, 602		1

5	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	○
4	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, 718-727	2.7	○
3	Wide variation of winter-induced sustained thermal energy dissipation in conifers: a common-garden study. <i>Oecologia</i> , 2021 , 197, 589-598	2.9	○
2	Seasonal Acclimation of Photosynthesis in Eastern Hemlock and Partridgeberry in Different Light Environments. <i>Northeastern Naturalist</i> , 2003 , 10, 1	0.5	
1	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	