Ichiro TERASHIMA

List of Publications by Year
in descending order

158	13,274	17405	24179
papers	citations	63 h-index	110 g-index

158	158	158	8833
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Green Light Drives Leaf Photosynthesis More Efficiently than Red Light in Strong White Light: Revisiting the Enigmatic Question of Why Leaves are Green. Plant and Cell Physiology, 2009, 50, 684-697.	1.5	549
2	Leaf Functional Anatomy in Relation to Photosynthesis. Plant Physiology, 2011, 155, 108-116.	2.3	497
3	Resistances along the CO2 diffusion pathway inside leaves. Journal of Experimental Botany, 2009, 60, 2235-2248.	2.4	492
4	Irradiance and phenotype: comparative eco-development of sun and shade leaves in relation to photosynthetic CO2 diffusion. Journal of Experimental Botany, 2006, 57, 343-354.	2.4	418
5	A model of the acclimation of photosynthesis in the leaves of C3 plants to sun and shade with respect to nitrogen use. Plant, Cell and Environment, 1995, 18, 605-618.	2.8	365
6	Overexpression of the Barley Aquaporin HvPIP2;1 Increases Internal CO2 Conductance and CO2 Assimilation in the Leaves of Transgenic Rice Plants. Plant and Cell Physiology, 2004, 45, 521-529.	1.5	361
7	Comparative ecophysiology of leaf and canopy photosynthesis. Plant, Cell and Environment, 1995, 18, 1111-1128.	2.8	359
8	Why are Sun Leaves Thicker than Shade Leaves? â€" Consideration based on Analyses of CO2 Diffusion in the Leaf. Journal of Plant Research, 2001, 114, 93-105.	1.2	292
9	Anatomy of non-uniform leaf photosynthesis. Photosynthesis Research, 1992, 31, 195-212.	1.6	281
10	The effect of growth irradiance on leaf anatomy and photosynthesis in Acer species differing in light demand. Plant, Cell and Environment, 2002, 25, 1021-1030.	2.8	231
11	Effects of leaf age, nitrogen nutrition and photon flux density on the distribution of nitrogen among leaves of a vine (Ipomoea tricolor Cav.) grown horizontally to avoid mutual shading of leaves. Oecologia, 1994, 97, 451-457.	0.9	219
12	Light Environment within a Leaf I. Optical Properties of Paradermal Sections of Camellia Leaves with Special Reference to Differences in the Optical Properties of Palisade and Spongy Tissues. Plant and Cell Physiology, 1983, 24, 1493-1501.	1.5	215
13	Temperature acclimation of photosynthesis in spinach leaves: analyses of photosynthetic components and temperature dependencies of photosynthetic partial reactions. Plant, Cell and Environment, 2005, 28, 536-547.	2.8	212
14	Roles of the Cyclic Electron Flow Around PSI (CEF-PSI) and O2-Dependent Alternative Pathways in Regulation of the Photosynthetic Electron Flow in Short-Term Fluctuating Light in Arabidopsis thaliana. Plant and Cell Physiology, 2014, 55, 990-1004.	1.5	204
15	Effects of HgCl2 on CO2 Dependence of Leaf Photosynthesis: Evidence Indicating Involvement of Aquaporins in CO2 Diffusion across the Plasma Membrane. Plant and Cell Physiology, 2002, 43, 70-78.	1.5	196
16	Up-Regulation of Mitochondrial Alternative Oxidase Concomitant with Chloroplast Over-Reduction by Excess Light. Plant and Cell Physiology, 2007, 48, 606-614.	1.5	191
17	Effects of Rubisco kinetics and Rubisco activation state on the temperature dependence of the photosynthetic rate in spinach leaves from contrasting growth temperatures. Plant, Cell and Environment, 2006, 29, 1659-1670.	2.8	189
18	A New Model for Leaf Photosynthesis Incorporating the Gradients of Light Environment and of Photosynthetic Properties of Chloroplasts within a Leaf. Annals of Botany, 1985, 56, 489-499.	1.4	181

#	ARTICLE	IF	CITATIONS
19	Overexpression of plasma membrane H ⁺ -ATPase in guard cells promotes light-induced stomatal opening and enhances plant growth. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 533-538.	3.3	179
20	Nitrogen Partitioning among Photosynthetic Components and its Consequence in Sun and Shade Plants. Functional Ecology, 1996, 10, 335.	1.7	168
21	The influence of leaf thickness on the CO2 transfer conductance and leaf stable carbon isotope ratio for some evergreen tree species in Japanese warm-temperate forests. Functional Ecology, 1999, 13, 632-639.	1.7	168
22	Mechanism of photosystem-I photoinhibition in leaves ofCucumis sativus L.. Planta, 1994, 194, 287-293.	1.6	167
23	Vertical Gradient in Photosynthetic Properties of Spinach Chloroplast Dependent on Intra-Leaf Light Environment. Plant and Cell Physiology, 1985, 26, 781-785.	1.5	161
24	Destruction of photosystem I iron-sulfur centers in leaves of Cucumis sativus L. by weak illumination at chilling temperatures. FEBS Letters, 1995, 362, 235-238.	1.3	157
25	Phenotypic Plasticity in Photosynthetic Temperature Acclimation among Crop Species with Different Cold Tolerances Â Â. Plant Physiology, 2009, 152, 388-399.	2.3	155
26	Nitrate Addition Alleviates Ammonium Toxicity Without Lessening Ammonium Accumulation, Organic Acid Depletion and Inorganic Cation Depletion in Arabidopsis thaliana Shoots. Plant and Cell Physiology, 2012, 53, 577-591.	1.5	151
27	The Arabidopsis Chloroplastic NifU-Like Protein CnfU, Which Can Act as an Iron-Sulfur Cluster Scaffold Protein, Is Required for Biogenesis of Ferredoxin and Photosystem I[W]. Plant Cell, 2004, 16, 993-1007.	3.1	145
28	Effects of Internal Conductance on the Temperature Dependence of the Photosynthetic Rate in Spinach Leaves from Contrasting Growth Temperatures. Plant and Cell Physiology, 2006, 47, 1069-1080.	1.5	145
29	The chloroplast avoidance response decreases internal conductance to CO₂ diffusion in Arabidopsis thaliana leaves. Plant, Cell and Environment, 2008, 31, 1688-1700.	2.8	144
30	Construction and Maintenance of the Optimal Photosynthetic Systems of the Leaf, Herbaceous Plant and Tree: an Eco-developmental Treatise. Annals of Botany, 2004, 95, 507-519.	1.4	137
31	Photosynthetic nitrogen-use efficiency in leaves of woody and herbaceous species. Functional Ecology, 1998, 12, 896-905.	1.7	135
32	Slow development of leaf photosynthesis in an evergreen broad-leaved tree, Castanopsis sieboldii : relationships between leaf anatomical characteristics and photosynthetic rate. Plant, Cell and Environment, 2001, 24, 279-291.	2.8	130
33	Increased stomatal conductance induces rapid changes to photosynthetic rate in response to naturally fluctuating light conditions in rice. Plant, Cell and Environment, 2020, 43, 1230-1240.	2.8	130
34	Effects of Nitrogen Nutrition on Electron Transport Components and Photosynthesis in Spinach. Functional Plant Biology, 1987, 14, 59.	1.1	129
35	Separate Localization of Light Signal Perception for Sun or Shade Type Chloroplast and Palisade Tissue Differentiation in Chenopodium album. Plant and Cell Physiology, 2001, 42, 1303-1310.	1.5	128
36	Central Die-back of Monoclonal Stands ofReynoutria japonicain an Early Stage of Primary Succession on Mount Fuji. Annals of Botany, 1996, 77, 477-486.	1.4	127

#	ARTICLE	IF	CITATIONS
37	Enhanced leaf photosynthesis as a target to increase grain yield: insights from transgenic rice lines with variable Rieske FeS protein content in the cytochrome b₆/f complex. Plant, Cell and Environment, 2016, 39, 80-87.	2.8	125
38	The lack of alternative oxidase at low temperature leads to a disruption of the balance in carbon and nitrogen metabolism, and to an upâ€regulation of antioxidant defence systems in Arabidopsis thaliana leaves. Plant, Cell and Environment, 2008, 31, 1190-1202.	2.8	123
39	CO2 transfer conductance, leaf structure and carbon isotope composition of Polygonum cuspidatum leaves from low and high altitudes. Plant, Cell and Environment, 2001, 24, 529-538.	2.8	120
40	Long-term and short-term responses of the photosynthetic electron transport to fluctuating light. Journal of Photochemistry and Photobiology B: Biology, 2014, 137, 89-99.	1.7	118
41	Effects of continuous leaf wetness on photosynthesis: adverse aspects of rainfall. Plant, Cell and Environment, 1995, 18, 431-438.	2.8	112
42	Distinct Roles of the Cytochrome Pathway and Alternative Oxidase in Leaf Photosynthesis. Plant and Cell Physiology, 2006, 47, 22-31.	1.5	112
43	Intraâ€leaf gradients of photoinhibition induced by different color lights: implications for the dual mechanisms of photoinhibition and for the application of conventional chlorophyll fluorometers. New Phytologist, 2011, 191, 146-159.	3.5	106
44	Improved stomatal opening enhances photosynthetic rate and biomass production in fluctuating light. Journal of Experimental Botany, 2020, 71, 2339-2350.	2.4	98
45	Contributions of diffusional limitation, photoinhibition and photorespiration to midday depression of photosynthesis in Arisaema heterophyllum in natural high light. Plant, Cell and Environment, 2000, 23, 235-250.	2.8	96
46	Developmental process of sun and shade leaves in Chenopodium album L.. Plant, Cell and Environment, 2004, 27, 781-793.	2.8	96
47	Effects of Carbohydrate Accumulation on Photosynthesis Differ between Sink and Source Leaves of Phaseolus vulgaris L.. Plant and Cell Physiology, 2006, 47, 644-652.	1.5	96
48	Is Photosynthesis Suppressed at Higher Elevations Due to Low CO2Pressure?. Ecology, 1995, 76, 2663-2668.	1.5	89
49	Possible Mechanisms of Adaptive Leaf Senescence. Plant Biology, 2001, 3, 234-243.	1.8	88
50	Cold-Tolerant Crop Species Have Greater Temperature Homeostasis of Leaf Respiration and Photosynthesis Than Cold-Sensitive Species. Plant and Cell Physiology, 2009, 50, 203-215.	1.5	88
51	Interaction between Nitrogen Deficit of a Plant and Nitrogen Content in the Old Leaves. Plant and Cell Physiology, 1996, 37, 1083-1089.	1.5	87
52	Acclimation of leaf characteristics of Fagus species to previous-year and current-year solar irradiances. Tree Physiology, 2000, 20, 945-951.	1.4	87
53	Dorsiventrality in Photosynthetic Light Response Curves of a Leaf. Journal of Experimental Botany, 1986, 37, 399-405.	2.4	83
54	The cause of PSI photoinhibition at low temperatures in leaves of Cucumis sativus , a chilling-sensitive plant. Physiologia Plantarum, 1998, 103, 295-303.	2.6	81

#	Article	IF	Citations
55	Apoplastic mesophyll signals induce rapid stomatal responses to <scp>CO</scp>₂ in <scp>C</scp>ommelina communis. New Phytologist, 2013, 199, 395-406.	3.5	77
56	Effects of growth light and nitrogen nutrition on the organization of the photosynthetic apparatus in leaves of a C4 plant, Amaranthus cruentus. Plant, Cell and Environment, 2006, 29, 691-700.	2.8	76
57	Effects of Elevated CO2 on Levels of Primary Metabolites and Transcripts of Genes Encoding Respiratory Enzymes and Their Diurnal Patterns in Arabidopsis thaliana: Possible Relationships with Respiratory Rates. Plant and Cell Physiology, 2014, 55, 341-357.	1.5	75
58	Maize Mutants Lacking Chloroplast FtsY Exhibit Pleiotropic Defects in the Biogenesis of Thylakoid Membranes[W]. Plant Cell, 2004, 16, 201-214.	3.1	69
59	Slow Leaf Development of Evergreen Broad-leaved Tree Species in Japanese Warm Temperate Forests. Annals of Botany, 1998, 82, 859-869.	1.4	68
60	Responses of spinach leaf mitochondria to low N availability. Plant, Cell and Environment, 2006, 29, 710-719.	2.8	68
61	Relationships Between Quantum Yield for CO2 Assimilation, Activity of Key Enzymes and CO2 Leakiness in Amaranthus cruentus, a C4 Dicot, Grown in High or Low Light. Plant and Cell Physiology, 2008, 49, 19-29.	1.5	68
62	High CO2 Triggers Preferential Root Growth of Arabidopsis thaliana Via Two Distinct Systems Under Low pH and Low N Stresses. Plant and Cell Physiology, 2014, 55, 269-280.	1.5	68
63	Operation of dual mechanisms that both lead to photoinactivation of Photosystem II in leaves by visible light. Physiologia Plantarum, 2011, 142, 47-55.	2.6	67
64	Distinct responses of the mitochondrial respiratory chain to longâ€•and shortâ€term highâ€light environments in Arabidopsis thaliana. Plant, Cell and Environment, 2011, 34, 618-628.	2.8	65
65	Effects of current-year and previous-year PPFDs on shoot gross morphology and leaf properties in Fagus japonica. Tree Physiology, 1998, 18, 459-466.	1.4	64
66	Effects of polyploidy on photosynthetic properties and anatomy in leaves of Phlox drummondii. Functional Plant Biology, 2007, 34, 673.	1.1	63
67	Overexpression of both Rubisco and Rubisco activase rescues rice photosynthesis and biomass under heat stress. Plant, Cell and Environment, 2021, 44, 2308-2320.	2.8	63
68	Distinct light responses of the adaxial and abaxial stomata in intact leaves of Helianthus annuus L.. Plant, Cell and Environment, 2008, 31, 1307-1316.	2.8	60
69	The Involvement of Dual Mechanisms of Photoinactivation of Photosystem II in Capsicum annuum L. Plants. Plant and Cell Physiology, 2009, 50, 1815-1825.	1.5	59
70	Reversible decreases in the bulk elastic modulus of mature leaves of deciduous Quercus species subjected to two drought treatments. Plant, Cell and Environment, 2004, 27, 863-875.	2.8	58
71	Comparisons of photosynthesis and photoinhibition in the CAM vine Hoya australis and several C3 vines growing on the coast of eastern Australia. Plant, Cell and Environment, 1988, 11, 173-181.	2.8	57
72	The Role of Electron Transport in Determining the Temperature Dependence of the Photosynthetic Rate in Spinach Leaves Grown at Contrasting Temperatures. Plant and Cell Physiology, 2008, 49, 583-591.	1.5	56

#	ARTICLE	IF	CITATIONS
73	Mesophyll conductance decreases in the wild type but not in an <scp>ABA</scp>â€deficient mutant (<scp>aba1</scp>) of <scp>N</scp>icotiana plumbaginifolia under drought conditions. Plant, Cell and Environment, 2015, 38, 388-398.	2.8	55
74	Effects of Plant Density on Frequency Distributions of Plant Height in Chenopodium album Stands: Analysis Based on Continuous Monitoring of Height-growth of Individual Plants. Annals of Botany, 1995, 75, 173-180.	1.4	54
75	Changes in mesophyll anatomy and sink-source relationships during leaf development in Quercus glauca , an evergreen tree showing delayed leaf greening. Plant, Cell and Environment, 2003, 26, 745-755.	2.8	54
76	Effects of AOX1a Deficiency on Plant Growth, Gene Expression of Respiratory Components and Metabolic Profile Under Low-Nitrogen Stress in Arabidopsis thaliana. Plant and Cell Physiology, 2010, 51, 810-822.	1.5	53
77	Physiological impact of mitochondrial alternative oxidase on photosynthesis and growth in Arabidopsis thaliana. Plant, Cell and Environment, 2011, 34, 1890-1899.	2.8	53
78	PsbU Provides a Stable Architecture for the Oxygen-Evolving System in Cyanobacterial Photosystem II. Biochemistry, 2005, 44, 12214-12228.	1.2	52
79	Photosynthesis-Dependent and -Independent Responses of Stomata to Blue, Red and Green Monochromatic Light: Differences Between the Normally Oriented and Inverted Leaves of Sunflower. Plant and Cell Physiology, 2011, 52, 479-489.	1.5	52
80	Acclimation of Respiratory Properties of Leaves of Spinacia oleracea L., a Sun Species, and of Alocasia macrorrhiza (L.) G. Don., a Shade Species, to Changes in Growth Irradiance. Plant and Cell Physiology, 1996, 37, 377-384.	1.5	50
81	Acclimation of leaf respiratory properties in Alocasia odora following reciprocal transfers of plants between high- and low-light environments. Plant, Cell and Environment, 2001, 24, 831-839.	2.8	50
82	Increase in respiratory cost at high growth temperature is attributed to high protein turnover cost in Petuniaï¿½×hybrida petals. Plant, Cell and Environment, 2007, 30, 1269-1283.	2.8	50
83	Cause for Dark, Chilling-Induced Inactivation of Photosynthetic Oxygen-Evolving System in Cucumber Leaves. Plant Physiology, 1990, 93, 1354-1357.	2.3	47
84	Relationships between Height, Diameter and Weight Distributions of Chenopodium album Plants in Stands: Effects of Dimension and Allometry. Annals of Botany, 1995, 75, 181-188.	1.4	47
85	Ammoniumâ€dependent respiratory increase is dependent on the cytochrome pathway in Arabidopsis thaliana shoots. Plant, Cell and Environment, 2010, 33, 1888-1897.	2.8	47
86	Effect of nitrogen nutrition on the carbohydrate repression of photosynthesis in leaves of Phaseolus vulgaris L.. Journal of Plant Research, 2010, 123, 371-379.	1.2	46
87	Effects of Leaf Chilling on Thylakoid Functions, Measured at Room Temperature, in Cucumis sativus L. and Oryza sativa L.. Plant and Cell Physiology, 1989, 30, 841-850.	1.5	44
88	Photoprotection of PSI by Far-Red Light Against the Fluctuating Light-Induced Photoinhibition inArabidopsis thalianaand Field-Grown Plants. Plant and Cell Physiology, 2017, 58, pcw215.	1.5	43
89	The Bulk Elastic Modulus and the Reversible Properties of Cell Walls in Developing Quercus Leaves. Plant and Cell Physiology, 2006, 47, 715-725.	1.5	42
90	Photosynthetic characteristics of a giant alpine plant, Rheum nobile Hook. f. et Thoms. and of some other alpine species measured at 4300 m, in the Eastern Himalaya, Nepal. Oecologia, 1993, 95, 194-201.	0.9	41

#	ARTICLE	IF	CITATIONS
91	Photosynthetic properties of leaves of Eupatorium makinoi infected by a geminivirus. Photosynthesis Research, 1997, 53, 253-261.	1.6	41
92	Elucidation of Photoprotective Mechanisms of PSI Against Fluctuating Light photoinhibition. Plant and Cell Physiology, 2016, 57, pcw103.	1.5	41
93	Mitochondrial Alternative Pathway-Associated Photoprotection of Photosystem II is Related to the Photorespiratory Pathway. Plant and Cell Physiology, 2016, 57, pcw036.	1.5	40
94	Simultaneous Determination of In Vivo Plastoquinone and Ubiquinone Redox States by HPLC-Based Analysis. Plant and Cell Physiology, 2010, 51, 836-841.	1.5	39
95	Mechanisms of Central Die-back ofReynoutria japonicain the Volcanic Desert on Mt. Fuji. A Stochastic Model Analysis of Rhizome Growth. Annals of Botany, 1996, 78, 169-179.	1.4	38
96	Cost and benefit of the repair of photodamaged photosystem II in spinach leaves: roles of acclimation to growth light. Photosynthesis Research, 2012, 113, 165-180.	1.6	38
97	Optimum leaf size predicted by a novel leaf energy balance model incorporating dependencies of photosynthesis on light and temperature. Ecological Research, 2012, 27, 333-346.	0.7	37
98	Far-Red Light Accelerates Photosynthesis in the Low-Light Phases of Fluctuating Light. Plant and Cell Physiology, 2020, 61, 192-202.	1.5	35
99	Nitrogen translocation via rhizome systems in monoclonal stands of Reynoutria japonica in an oligotrophic desert on Mt Fuji: Field experiments. Ecological Research, 1996, 11, 175-186.	0.7	33
100	Possible association of actin filaments with chloroplasts of spinach mesophyll cells in vivo and in vitro. Protoplasma, 2006, 229, 45-52.	1.0	32
101	Manipulation of the hypocotyl sink activity by reciprocal grafting of two Raphanus sativus varieties: its effects on morphological and physiological traits of source leaves and wholeâ€plant growth. Plant, Cell and Environment, 2015, 38, 2629-2640.	2.8	32
102	The effect of internal Co2 conductance on leaf carbon isotope ratio. Isotopes in Environmental and Health Studies, 2003, 39, 5-13.	0.5	30
103	Manipulation of light and CO₂ environments of the primary leaves of bean (Phaseolus) Tj ETQq1 1 0.784314 rgBT /Ov of systemic regulation. Plant, Cell and Environment, 2008, 31, 50-61.	2.8	30
104	Nonâ€photochemical loss in PSII in highâ€•and lowâ€lightâ€grown leaves of Vicia faba quantified by several fluorescence parameters including L_{NP}, , a novel parameter. Physiologia Plantarum, 2008, 133, 327-338.	2.6	29
105	Plant Responses to CO2: Background and Perspectives. Plant and Cell Physiology, 2014, 55, 237-240.	1.5	29
106	Relationships between light, leaf nitrogen and nitrogen remobilization in the crowns of mature evergreen Quercus glauca trees. Tree Physiology, 2004, 24, 1157-1164.	1.4	28
107	A Decrease in Mesophyll Conductance by Cell-Wall Thickening Contributes to Photosynthetic Downregulation. Plant Physiology, 2020, 183, 1600-1611.	2.3	28
108	Homeostasis of the temperature sensitivity of respiration over a range of growth temperatures indicated by a modified Arrhenius model. New Phytologist, 2015, 207, 34-42.	3.5	27

#	Article	IF	Citations
109	Comparison of the response to phosphorus deficiency in two lupin species, <scp>L</scp>upinus albus and <scp>L</scp>.â€‰angustifolius, with contrasting root morphology. Plant, Cell and Environment, 2015, 38, 399-410.	2.8	27
110	Effects of leaf age on internal CO2 transfer conductance and photosynthesis in tree species having different types of shoot phenology. Functional Plant Biology, 2001, 28, 1075.	1.1	26
111	Effects of Elevated Atmospheric CO₂on Primary Metabolite Levels inArabidopsis thalianaCol-0 Leaves: An Examination of Metabolome Data. Plant and Cell Physiology, 2015, 56, pcv125.	1.5	26
112	Rate Constants of PSII Photoinhibition and its Repair, and PSII Fluorescence Parameters in Field Plants in Relation to their Growth Light Environments. Plant and Cell Physiology, 2015, 56, 1841-1854.	1.5	26
113	Light environment within a leaf. II. Progress in the past one-third century. Journal of Plant Research, 2016, 129, 353-363.	1.2	26
114	Sinkâ€“Source Balance and Down-Regulation of Photosynthesis in Raphanus sativus: Effects of Grafting, N and CO2. Plant and Cell Physiology, 2017, 58, 2043-2056.	1.5	25
115	Interspecific differences in how sinkâ€“source imbalance causes photosynthetic downregulation among three legume species. Annals of Botany, 2019, 123, 715-726.	1.4	25
116	Maintenance mechanisms of the pipe model relationship and Leonardo da Vinciâ€™s rule in the branching architecture of Acer rufinerve trees. Journal of Plant Research, 2009, 122, 41-52.	1.2	24
117	How and why does mitochondrial respiratory chain respond to light?. Plant Signaling and Behavior, 2011, 6, 864-866.	1.2	24
118	Effects of instantaneous and growth CO 2 levels and abscisic acid on stomatal and mesophyll conductances. Plant, Cell and Environment, 2019, 42, 1257-1269.	2.8	23
119	Effects of Eupatorium yellow vein virus infection on photosynthetic rate, chlorophyll content and chloroplast structure in leaves of Eupatorium makinoi during leaf development. Functional Plant Biology, 2006, 33, 165.	1.1	22
120	Chilling Injury in Mature Leaves of Rice. I. Varietal Differences in the Effects of Chilling on Canopy Photosynthesis Under Simulated 'Dry Cold Dew Wind' Conditions Experienced in South-East China. Functional Plant Biology, 1989, 16, 321.	1.1	21
121	Roles of gibberellins and cytokinins in regulation of morphological and physiological traits in Polygonum cuspidatum responding to light and nitrogen availabilities. Functional Plant Biology, 2015, 42, 397.	1.1	21
122	Mitochondrial AOX Supports Redox Balance of Photosynthetic Electron Transport, Primary Metabolite Balance, and Growth in Arabidopsis thaliana under High Light. International Journal of Molecular Sciences, 2019, 20, 3067.	1.8	21
123	Whole Irradiated Plant Leaves Showed Faster Photosynthetic Induction Than Individually Irradiated Leaves via Improved Stomatal Opening. Frontiers in Plant Science, 2019, 10, 1512.	1.7	21
124	Costs of protein turnover and carbohydrate export in leaves of sun and shade species. Functional Plant Biology, 2001, 28, 37.	1.1	20
125	Activities of the cyanide-resistant respiratory pathway in leaves of sun and shade species. Functional Plant Biology, 2001, 28, 27.	1.1	20
126	The Loss of Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase Caused by 24-Hour Rain Treatment Fully Explains the Decrease in the Photosynthetic Rate in Bean Leaves. Plant Physiology, 1996, 111, 635-640.	2.3	18

#	Article	IF	Citations
127	Dependency of branch diameter growth in young Acer trees on light availability and shoot elongation. Tree Physiology, 2005, 25, 39-48.	1.4	18
128	Elevated CO2-induced changes in mesophyll conductance and anatomical traits in wild type and carbohydrate-metabolism mutants of Arabidopsis. Journal of Experimental Botany, 2019, 70, 4807-4818.	2.4	18
129	Effects of virus infection and light environment on population dynamics of Eupatorium makinoi (Asteraceae). American Journal of Botany, 2001, 88, 616-622.	0.8	17
130	Confirmation of mesophyll signals controlling stomatal responses by a newly devised transplanting method. Functional Plant Biology, 2019, 46, 467.	1.1	17
131	Effects of geminivirus infection and growth irradiance on the vegetative growth and photosynthetic production of Eupatorium makinoi. New Phytologist, 1999, 142, 483-494.	3.5	15
132	Co-ordinated development of the leaf midrib xylem with the lamina in Nicotiana tabacum. Annals of Botany, 2012, 110, 35-45.	1.4	14
133	Local Anesthetics and Antipsychotic Phenothiazines Interact Nonspecifically with Membranes and Inhibit Hexose Transporters in Yeast. Genetics, 2016, 202, 997-1012.	1.2	14
134	134Cs and 137Cs levels in a grassland, 32Âkm northwest of the Fukushima 1 Nuclear Power Plant, measured for two seasons after the fallout. Journal of Plant Research, 2014, 127, 43-50.	1.2	13
135	The effect of different spectral light quality on the photoinhibition of Photosystem I in intact leaves. Photosynthesis Research, 2021, 149, 83-92.	1.6	13
136	Mechanical and ecophysiological significance of the form of a young Acer rufinerve tree: vertical gradient in branch mechanical properties. Tree Physiology, 2006, 26, 1549-1558.	1.4	12
137	Structural analysis of compounds with actions similar to local anesthetics and antipsychotic phenothiazines in yeast. Yeast, 2011, 28, 391-404.	0.8	12
138	Effects of root morphology, respiration and carboxylate exudation on carbon economy in two nonâ€mycorrhizal lupines under phosphorus deficiency. Plant, Cell and Environment, 2021, 44, 598-612.	2.8	12
139	Chilling Injury in Mature Leaves of Rice. II. Varietal Differences in the Response to Interactions Between Low Temperature and Light Measured by Chlorophyll Fluorescence at 77k and the Quantum Yield of Photosynthesis. Functional Plant Biology, 1989, 16, 339.	1.1	11
140	Photosystem I in low light-grown leaves of Alocasia odora, a shade-tolerant plant, is resistant to fluctuating light-induced photoinhibition. Photosynthesis Research, 2021, 149, 69-82.	1.6	9
141	The effect of chilling in the light on photophosphorylation. Photosynthesis Research, 1990, 25, 137-139.	1.6	7
142	Patterns of photoassimilate translocation to reproductive shoots from adjacent shoots in Camellia sasanqua by manipulation of sink-source balance between the shoots. Journal of Plant Research, 2011, 124, 131-136.	1.2	7
143	Structures of Bordered Pits Potentially Contributing to Isolation of a Refilled Vessel from Negative Xylem Pressure in Stems ofMorus australisPoir.: Testing of the Pit Membrane Osmosis and Pit Valve Hypotheses. Plant and Cell Physiology, 2016, 58, pcw196.	1.5	7
144	Antimalarial Quinacrine and Chloroquine Lose Their Activity by Decreasing Cationic Amphiphilic Structure with a Slight Decrease in pH. Journal of Medicinal Chemistry, 2021, 64, 3885-3896.	2.9	7

#	ARTICLE	IF	CITATIONS
145	Tetracaine, a local anesthetic, preferentially induces translational inhibition with processing body formation rather than phosphorylation of eIF2Î± in yeast. Current Genetics, 2015, 61, 43-53.	0.8	6
146	Intra-specific trends of lumen and wall resistivities of vessels within the stem xylem vary among three woody plants. Tree Physiology, 2018, 38, 223-231.	1.4	6
147	Leaf angle in Chenopodium album is determined by two processes: induction and cessation of petiole curvature. Plant, Cell and Environment, 2008, 31, 1138-1146.	2.8	5
148	S4 Protein Sll1252 Is Necessary for Energy Balancing in Photosynthetic Electron Transport in Synechocystis sp. PCC 6803. Biochemistry, 2011, 50, 329-339.	1.2	5
149	Different regulation of leaf respiration between Spinacia oleracea, a sun species, and Alocasia odora, a shade species. Physiologia Plantarum, 1997, 101, 1-7.	2.6	5
150	Mixed population hypothesis of the active and inactive PSII complexes opens a new door for photoinhibition and fluorescence studies: an ecophysiological perspective. Functional Plant Biology, 2022, 49, 917-925.	1.1	5
151	Preface: Structure and Function of Plant Canopies. Annals of Botany, 2004, 95, 481-482.	1.4	4
152	Preservation of integrity and activity of Haberlea rhodopensis photosynthetic apparatus during prolonged light deprivation. Physiologia Plantarum, 2012, 146, 121-128.	2.6	4
153	Spatio-temporal variations in photosynthesis. Journal of Plant Research, 2016, 129, 295-298.	1.2	4
154	A new method for separate evaluation of PSII with inactive oxygen evolving complex and active D1 by the pulse-amplitude modulated chlorophyll fluorometry. Functional Plant Biology, 2022, 49, 542-553.	1.1	4
155	Negative fallout from public sentiment in Japan. Nature Biotechnology, 2004, 22, 943-943.	9.4	3
156	Conservative Decrease in Water Potential in Existing Leaves during New Leaf Expansion in Temperate and Tropical Evergreen Quercus Species. Annals of Botany, 2007, 100, 1229-1238.	1.4	2
157	Increased Cuticle Permeability Caused by a New Allele of ACETYL-COA CARBOXYLASE1 Enhances CO₂ Uptake. Plant Physiology, 2020, 184, 1917-1926.	2.3	1
158	Plant Responses to CO2: Background and Perspectives. Plant and Cell Physiology, 2014, 55, 666-666.	1.5	0