Riichi Oguchi

List of Publications by Year in descending order

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#	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.	3.1	549
2	Does the photosynthetic light-acclimation need change in leaf anatomy?. Plant, Cell and Environment, 2003, 26, 505-512.	5.7	313
3	Leaf anatomy as a constraint for photosynthetic acclimation: differential responses in leaf anatomy to increasing growth irradiance among three deciduous trees. Plant, Cell and Environment, 2005, 28, 916-927.	5.7	257
4	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.	7.3	106
5	Leaf anatomy and light acclimation in woody seedlings after gap formation in a cool-temperate deciduous forest. Oecologia, 2006, 149, 571-582.	2.0	78
6	Operation of dual mechanisms that both lead to photoinactivation of Photosystem II in leaves by visible light. Physiologia Plantarum, 2011, 142, 47-55.	5.2	67
7	The Involvement of Dual Mechanisms of Photoinactivation of Photosystem II in Capsicum annuum L. Plants. Plant and Cell Physiology, 2009, 50, 1815-1825.	3.1	59
8	Important photosynthetic contribution from the non-foliar green organs in cotton at the late growth stage. Planta, 2012, 235, 325-336.	3.2	53
9	Obstacles in the quantification of the cyclic electron flux around Photosystem I in leaves of C3 plants. Photosynthesis Research, 2016, 129, 239-251.	2.9	52
10	Differential effects of severe water stress on linear and cyclic electron fluxes through Photosystem I in spinach leaf discs in CO2-enriched air. Planta, 2008, 228, 803-812.	3.2	48
11	Estimation of the steady-state cyclic electron flux around PSI in spinach leaf discs in white light, CO2-enriched air and other varied conditions. Functional Plant Biology, 2013, 40, 1018.	2.1	40
12	A rapid, wholeâ€ŧissue determination of the functional fraction of PSII after photoinhibition of leaves based on flashâ€induced P700 redox kinetics. Physiologia Plantarum, 2008, 132, 23-32.	5.2	37
13	The leaf anatomy of a broadâ€leaved evergreen allows an increase in leaf nitrogen content in winter. Physiologia Plantarum, 2009, 136, 299-309.	5.2	34
14	Quantifying and monitoring functional photosystem II and the stoichiometry of the two photosystems in leaf segments: approaches and approximations. Photosynthesis Research, 2012, 113, 63-74.	2.9	34
15	Leaf Anatomy and Function. Advances in Photosynthesis and Respiration, 2018, , 97-139.	1.0	34
16	Costs and benefits of photosynthetic light acclimation by tree seedlings in response to gap formation. Oecologia, 2008, 155, 665-675.	2.0	31
17	Light environment within a leaf. II. Progress in the past one-third century. Journal of Plant Research, 2016, 129, 353-363.	2.4	26
18	Cotton bracts are adapted to a microenvironment of concentrated CO2 produced by rapid fruit respiration. Annals of Botany, 2013, 112, 31-40.	2.9	24

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19	The effect of interspecific variation in photosynthetic plasticity on 4-year growth rate and 8-year survival of understorey tree seedlings in response to gap formations in a cool-temperate deciduous forest. Tree Physiology, 2017, 37, 1113-1127.	3.1	22
20	The time course of photoinactivation of photosystem II in leaves revisited. Photosynthesis Research, 2012, 113, 157-164.	2.9	20
21	Testing trait plasticity over the range of spectral composition of sunlight in forb species differing in shade tolerance. Journal of Ecology, 2020, 108, 1923-1940.	4.0	20

Mutant selection in the self-incompatible plant radish (<i>Raphanus sativus</i> L.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 22

23	Which plant trait explains the variations in relative growth rate and its response to elevated carbon dioxide concentration among Arabidopsis thaliana ecotypes derived from a variety of habitats?. Oecologia, 2016, 180, 865-876.	2.0	13
24	The effect of different spectral light quality on the photoinhibition of Photosystem I in intact leaves. Photosynthesis Research, 2021, 149, 83-92.	2.9	13
25	Recovery of photoinactivated photosystem II in leaves: retardation due to restricted mobility of photosystem II in the thylakoid membrane. Photosynthesis Research, 2008, 98, 621-629.	2.9	11
26	Dependence of functional traits related to growth rates and their CO2 response on multiple habitat climate factors across Arabidopsis thaliana populations. Journal of Plant Research, 2018, 131, 987-999.	2.4	6
27	Quantification of Cyclic Electron Flow in Spinach Leaf Discs. Advanced Topics in Science and Technology in China, 2013, , 271-274.	0.1	5
28	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.	2.1	4
29	Enhanced growth rate under elevated CO2 conditions was observed for transgenic lines of genes identified by intraspecific variation analyses in Arabidopsis thaliana. Plant Molecular Biology, 2022, 110, 333-345.	3.9	4
30	Functional shifts in leaves of woody invaders of deciduous forests between their home and away ranges. Tree Physiology, 2019, 39, 1551-1560.	3.1	3
31	Gradients of Photoinhibition in the Interior of a Leaf Induced by Photoinhibition Lights of Different Colors. Advanced Topics in Science and Technology in China, 2013, , 459-464.	0.1	3
32	Wah Soon Chow, a teacher, a friend and a colleague. Photosynthesis Research, 2021, 149, 253-258.	2.9	2
33	Resource Allocation and Trade-Offs in Carbon Gain of Leaves Under Changing Environment. Plant Ecophysiology, 2014, , 1-24.	1.5	2
34	A Universal Correlation Between Flash-Induced P700 Redox Kinetics and Photoinactivation of Photosystem II in All Leaves?. , 2008, , 1421-1424.		1
35	Does Photoinactivation of Photosystem II Occur in Low Light Conditions. , 2008, , 741-744.		0
36	Estimation of the Cyclic Electron Flux around Photosystem I in Leaf Discs. , 2017, , 265-275.		0

36 Estimation of the Cyclic Electron Flux around Photosystem I in Leaf Discs. , 2017, , 265-275.