

Riichi Oguchi

List of Publications by Year in descending order

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36
papers

1,985
citations

394390

19
h-index

395678

33
g-index

37
all docs

37
docs citations

37
times ranked

1912
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. <i>Plant and Cell Physiology</i> , 2009, 50, 684-697.	3.1	549
2	Does the photosynthetic light-acclimation need change in leaf anatomy?. <i>Plant, Cell and Environment</i> , 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. <i>Plant, Cell and Environment</i> , 2005, 28, 916-927.	5.7	257
4	Intra-leaf gradients of photoinhibition induced by different color lights: implications for the dual mechanisms of photoinhibition and for the application of conventional chlorophyll fluorometers. <i>New Phytologist</i> , 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. <i>Oecologia</i> , 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. <i>Physiologia Plantarum</i> , 2011, 142, 47-55.	5.2	67
7	The Involvement of Dual Mechanisms of Photoinactivation of Photosystem II in <i>Capsicum annum</i> L. Plants. <i>Plant and Cell Physiology</i> , 2009, 50, 1815-1825.	3.1	59
8	Important photosynthetic contribution from the non-foliar green organs in cotton at the late growth stage. <i>Planta</i> , 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. <i>Photosynthesis Research</i> , 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 CO ₂ -enriched air. <i>Planta</i> , 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, CO ₂ -enriched air and other varied conditions. <i>Functional Plant Biology</i> , 2013, 40, 1018.	2.1	40
12	A rapid, whole-tissue determination of the functional fraction of PSII after photoinhibition of leaves based on flash-induced P700 redox kinetics. <i>Physiologia Plantarum</i> , 2008, 132, 23-32.	5.2	37
13	The leaf anatomy of a broad-leaved evergreen allows an increase in leaf nitrogen content in winter. <i>Physiologia Plantarum</i> , 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. <i>Photosynthesis Research</i> , 2012, 113, 63-74.	2.9	34
15	Leaf Anatomy and Function. <i>Advances in Photosynthesis and Respiration</i> , 2018, , 97-139.	1.0	34
16	Costs and benefits of photosynthetic light acclimation by tree seedlings in response to gap formation. <i>Oecologia</i> , 2008, 155, 665-675.	2.0	31
17	Light environment within a leaf. II. Progress in the past one-third century. <i>Journal of Plant Research</i> , 2016, 129, 353-363.	2.4	26
18	Cotton bracts are adapted to a microenvironment of concentrated CO ₂ produced by rapid fruit respiration. <i>Annals of Botany</i> , 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. <i>Tree Physiology</i> , 2017, 37, 1113-1127.	3.1	22
20	The time course of photoinactivation of photosystem II in leaves revisited. <i>Photosynthesis Research</i> , 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. <i>Journal of Ecology</i> , 2020, 108, 1923-1940.	4.0	20
22	Mutant selection in the self-incompatible plant radish (<i>Raphanus sativus</i> L.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	1.9	14
23	Which plant trait explains the variations in relative growth rate and its response to elevated carbon dioxide concentration among <i>Arabidopsis thaliana</i> ecotypes derived from a variety of habitats?. <i>Oecologia</i> , 2016, 180, 865-876.	2.0	13
24	The effect of different spectral light quality on the photoinhibition of Photosystem I in intact leaves. <i>Photosynthesis Research</i> , 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. <i>Photosynthesis Research</i> , 2008, 98, 621-629.	2.9	11
26	Dependence of functional traits related to growth rates and their CO ₂ response on multiple habitat climate factors across <i>Arabidopsis thaliana</i> populations. <i>Journal of Plant Research</i> , 2018, 131, 987-999.	2.4	6
27	Quantification of Cyclic Electron Flow in Spinach Leaf Discs. <i>Advanced Topics in Science and Technology in China</i> , 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. <i>Functional Plant Biology</i> , 2022, 49, 542-553.	2.1	4
29	Enhanced growth rate under elevated CO ₂ conditions was observed for transgenic lines of genes identified by intraspecific variation analyses in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2022, 110, 333-345.	3.9	4
30	Functional shifts in leaves of woody invaders of deciduous forests between their home and away ranges. <i>Tree Physiology</i> , 2019, 39, 1551-1560.	3.1	3
31	Gradients of Photoinhibition in the Interior of a Leaf Induced by Photoinhibition Lights of Different Colors. <i>Advanced Topics in Science and Technology in China</i> , 2013, , 459-464.	0.1	3
32	Wah Soon Chow, a teacher, a friend and a colleague. <i>Photosynthesis Research</i> , 2021, 149, 253-258.	2.9	2
33	Resource Allocation and Trade-Offs in Carbon Gain of Leaves Under Changing Environment. <i>Plant Ecophysiology</i> , 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