

Wataru Yamori

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

3,852
citations

31
h-index

61
g-index

80
ext. papers

4,974
ext. citations

6.4
avg, IF

6.15
L-index

#	Paper	IF	Citations
74	Optimum root zone temperature of photosynthesis and plant growth depends on air temperature in lettuce plants.. <i>Plant Molecular Biology</i> , 2022 , 1	4.6	0
73	Drought stress reduces crop carbon gain due to delayed photosynthetic induction under fluctuating light conditions. <i>Physiologia Plantarum</i> , 2021 , e13603	4.6	0
72	Stomatal, mesophyll conductance, and biochemical limitations to photosynthesis during induction. <i>Plant Physiology</i> , 2021 , 185, 146-160	6.6	22
71	Co-overproducing Rubisco and Rubisco activase enhances photosynthesis in the optimal temperature range in rice. <i>Plant Physiology</i> , 2021 , 185, 108-119	6.6	8
70	Overexpression of both Rubisco and Rubisco activase rescues rice photosynthesis and biomass under heat stress. <i>Plant, Cell and Environment</i> , 2021 , 44, 2308-2320	8.4	14
69	Alternating Red/Blue Light Increases Leaf Thickness and Mesophyll Cell Density in the Early Growth Stage, Improving Photosynthesis and Plant Growth in Lettuce. <i>Environmental Control in Biology</i> , 2021 , 59, 59-67	0.9	0
68	Photosystem I in low light-grown leaves of <i>Alocasia odora</i> , a shade-tolerant plant, is resistant to fluctuating light-induced photoinhibition. <i>Photosynthesis Research</i> , 2021 , 149, 69-82	3.7	3
67	Minimizing VPD Fluctuations Maintains Higher Stomatal Conductance and Photosynthesis, Resulting in Improvement of Plant Growth in Lettuce. <i>Frontiers in Plant Science</i> , 2021 , 12, 646144	6.2	6
66	Degradation of the photosystem II core complex is independent of chlorophyll degradation mediated by Stay-Green Mg dechelataase in <i>Arabidopsis</i> . <i>Plant Science</i> , 2021 , 307, 110902	5.3	3
65	Gene co-expression network analysis identifies BEH3 as a stabilizer of secondary vascular development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2021 , 33, 2618-2636	11.6	3
64	Optimal Light Wavelength for a Novel Cultivation System with a Supplemental Upward Lighting in Plant Factory with Artificial Lighting. <i>Environmental Control in Biology</i> , 2021 , 59, 21-27	0.9	1
63	Strategies for Engineering Photosynthesis for Enhanced Plant Biomass Production 2021 , 31-58		3
62	Photosynthesis and respiration 2020 , 197-206		0
61	Improved stomatal opening enhances photosynthetic rate and biomass production in fluctuating light. <i>Journal of Experimental Botany</i> , 2020 , 71, 2339-2350	7	48
60	Overexpression of BUNDLE SHEATH DEFECTIVE 2 improves the efficiency of photosynthesis and growth in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2020 , 102, 129-137	6.9	5
59	Increased Cuticle Permeability Caused by a New Allele of - Enhances CO ₂ Uptake. <i>Plant Physiology</i> , 2020 , 184, 1917-1926	6.6	1
58	Collaboration between NDH and KEA3 Allows Maximally Efficient Photosynthesis after a Long Dark Adaptation. <i>Plant Physiology</i> , 2020 , 184, 2078-2090	6.6	3

57	Higher Stomatal Density Improves Photosynthetic Induction and Biomass Production in Arabidopsis Under Fluctuating Light. <i>Frontiers in Plant Science</i> , 2020 , 11, 589603	6.2	20
56	Increased stomatal conductance induces rapid changes to photosynthetic rate in response to naturally fluctuating light conditions in rice. <i>Plant, Cell and Environment</i> , 2020 , 43, 1230-1240	8.4	56
55	Concurrent Increases in Leaf Temperature With Light Accelerate Photosynthetic Induction in Tropical Tree Seedlings. <i>Frontiers in Plant Science</i> , 2020 , 11, 1216	6.2	0
54	Rice Cultivar Takanari Has Higher Photosynthetic Performance Under Fluctuating Light Than Koshihikari, Especially Under Limited Nitrogen Supply and Elevated CO. <i>Frontiers in Plant Science</i> , 2020 , 11, 1308	6.2	7
53	Far-Red Light Accelerates Photosynthesis in the Low-Light Phases of Fluctuating Light. <i>Plant and Cell Physiology</i> , 2020 , 61, 192-202	4.9	22
52	Natural genetic variation of the photosynthetic induction response to fluctuating light environment. <i>Current Opinion in Plant Biology</i> , 2019 , 49, 52-59	9.9	33
51	High-yielding rice Takanari has superior photosynthetic response to a commercial rice Koshihikari under fluctuating light. <i>Journal of Experimental Botany</i> , 2019 , 70, 5287-5297	7	20
50	Whole Irradiated Plant Leaves Showed Faster Photosynthetic Induction Than Individually Irradiated Leaves Improved Stomatal Opening. <i>Frontiers in Plant Science</i> , 2019 , 10, 1512	6.2	12
49	Effects of co-overproduction of sedoheptulose-1,7-bisphosphatase and Rubisco on photosynthesis in rice. <i>Soil Science and Plant Nutrition</i> , 2019 , 65, 36-40	1.6	6
48	Effects of anoxia and hypoxia on the two-spotted spider mite, <i>Tetranychus urticae</i> (Acari: Tetranychidae). <i>Applied Entomology and Zoology</i> , 2018 , 53, 535-541	1.5	
47	Flavodiiron Protein Substitutes for Cyclic Electron Flow without Competing CO Assimilation in Rice. <i>Plant Physiology</i> , 2018 , 176, 1509-1518	6.6	59
46	Supplemental LED inter-lighting compensates for a shortage of light for plant growth and yield under the lack of sunshine. <i>PLoS ONE</i> , 2018 , 13, e0206592	3.7	11
45	Flavonoid Productivity Optimized for Green and Red Forms of <i>Perilla frutescens</i> via Environmental Control Technologies in Plant Factory. <i>Journal of Food Quality</i> , 2018 , 2018, 1-9	2.7	8
44	Continuous Irradiation with Alternating Red and Blue Light Enhances Plant Growth While Keeping Nutritional Quality in Lettuce. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2018 , 53, 1804-1809	2.4	22
43	Chloroplast Accumulation Response Enhances Leaf Photosynthesis and Plant Biomass Production. <i>Plant Physiology</i> , 2018 , 178, 1358-1369	6.6	41
42	The Arabidopsis Mutant Has a Second-Site Mutation in the Gene That Alters Chloroplast Size, Photosynthetic Traits, and Leaf Growth. <i>Plant Physiology</i> , 2018 , 178, 3-6	6.6	12
41	Expression of rice promotes cell proliferation, leading to enhancement of growth in transgenic tobacco. <i>Plant Biotechnology</i> , 2017 , 34, 29-38	1.3	2
40	A Combination of Downward Lighting and Supplemental Upward Lighting Improves Plant Growth in a Closed Plant Factory with Artificial Lighting. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2017 , 52, 831-835	2.4	14

39	Light Controls Protein Localization through Phytochrome-Mediated Alternative Promoter Selection. <i>Cell</i> , 2017 , 171, 1316-1325.e12	56.2	62
38	Photoprotection of PSI by Far-Red Light Against the Fluctuating Light-Induced Photoinhibition in <i>Arabidopsis thaliana</i> and Field-Grown Plants. <i>Plant and Cell Physiology</i> , 2017 , 58, 35-45	4.9	32
37	Growth and Accumulation of Secondary Metabolites in <i>Perilla</i> as Affected by Photosynthetic Photon Flux Density and Electrical Conductivity of the Nutrient Solution. <i>Frontiers in Plant Science</i> , 2017 , 8, 708	6.2	53
36	Photosynthesis and respiration 2016 , 141-150		4
35	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. <i>Plant, Cell and Environment</i> , 2016 , 39, 80-7	8.4	80
34	Physiological Functions of Cyclic Electron Transport Around Photosystem I in Sustaining Photosynthesis and Plant Growth. <i>Annual Review of Plant Biology</i> , 2016 , 67, 81-106	30.7	278
33	Mitochondrial Alternative Pathway-Associated Photoprotection of Photosystem II is Related to the Photorespiratory Pathway. <i>Plant and Cell Physiology</i> , 2016 , 57, 1426-1431	4.9	29
32	Strategies for Optimizing Photosynthesis with Biotechnology to Improve Crop Yield. <i>Books in Soils, Plants, and the Environment</i> , 2016 , 741-759		4
31	Next Evolution of Agriculture: A Review of Innovations in Plant Factories. <i>Books in Soils, Plants, and the Environment</i> , 2016 , 723-740		2
30	Nighttime Supplemental LED Inter-lighting Improves Growth and Yield of Single-Truss Tomatoes by Enhancing Photosynthesis in Both Winter and Summer. <i>Frontiers in Plant Science</i> , 2016 , 7, 448	6.2	61
29	A physiological role of cyclic electron transport around photosystem I in sustaining photosynthesis under fluctuating light in rice. <i>Scientific Reports</i> , 2016 , 6, 20147	4.9	162
28	Photosynthetic response to fluctuating environments and photoprotective strategies under abiotic stress. <i>Journal of Plant Research</i> , 2016 , 129, 379-95	2.6	119
27	Control of vapor pressure deficit (VPD) in greenhouse enhanced tomato growth and productivity during the winter season. <i>Scientia Horticulturae</i> , 2015 , 197, 17-23	4.1	45
26	Photosystem I cyclic electron flow via chloroplast NADH dehydrogenase-like complex performs a physiological role for photosynthesis at low light. <i>Scientific Reports</i> , 2015 , 5, 13908	4.9	69
25	Homeostasis of the temperature sensitivity of respiration over a range of growth temperatures indicated by a modified Arrhenius model. <i>New Phytologist</i> , 2015 , 207, 34-42	9.8	17
24	Supplemental Upward Lighting from Underneath to Obtain Higher Marketable Lettuce (<i>Lactuca sativa</i>) Leaf Fresh Weight by Retarding Senescence of Outer Leaves. <i>Frontiers in Plant Science</i> , 2015 , 6, 1110	6.2	27
23	Feasibility Study of Rice Growth in Plant Factories. <i>Rice Research Open Access</i> , 2014 , 02,		3
22	Thermal acclimation of photosynthesis: on the importance of adjusting our definitions and accounting for thermal acclimation of respiration. <i>Photosynthesis Research</i> , 2014 , 119, 89-100	3.7	188

21	Temperature response of photosynthesis in C3, C4, and CAM plants: temperature acclimation and temperature adaptation. <i>Photosynthesis Research</i> , 2014 , 119, 101-117	3.7	508
20	Feasibility Study of Rice Growth in Plant Factories. <i>Rice Research Open Access</i> , 2014 , 2,		7
19	The Effects of Antisense Suppression of β Subunit of Chloroplast ATP Synthase on the Rates of Chloroplast Electron Transport and CO ₂ Assimilation in Transgenic Tobacco. <i>Advanced Topics in Science and Technology in China</i> , 2013 , 773-776	0.2	
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	4.1	16
17	Rubisco activase is a key regulator of non-steady-state photosynthesis at any leaf temperature and, to a lesser extent, of steady-state photosynthesis at high temperature. <i>Plant Journal</i> , 2012 , 71, 871-80	6.9	154
16	Antisense reductions in the PsbO protein of photosystem II leads to decreased quantum yield but similar maximal photosynthetic rates. <i>Journal of Experimental Botany</i> , 2012 , 63, 4781-95	7	28
15	Rubisco activity is associated with photosynthetic thermotolerance in a wild rice (<i>Oryza meridionalis</i>). <i>Physiologia Plantarum</i> , 2012 , 146, 99-109	4.6	43
14	The rate-limiting step for CO ₂ assimilation at different temperatures is influenced by the leaf nitrogen content in several C(3) crop species. <i>Plant, Cell and Environment</i> , 2011 , 34, 764-77	8.4	112
13	Cyclic electron flow around photosystem I via chloroplast NAD(P)H dehydrogenase (NDH) complex performs a significant physiological role during photosynthesis and plant growth at low temperature in rice. <i>Plant Journal</i> , 2011 , 68, 966-76	6.9	158
12	Quantification of Rubisco activase content in leaf extracts. <i>Methods in Molecular Biology</i> , 2011 , 684, 383-91	9.1	1
11	The roles of ATP synthase and the cytochrome b6/f complexes in limiting chloroplast electron transport and determining photosynthetic capacity. <i>Plant Physiology</i> , 2011 , 155, 956-62	6.6	120
10	Effects of growth and measurement light intensities on temperature dependence of CO ₂ assimilation rate in tobacco leaves. <i>Plant, Cell and Environment</i> , 2010 , 33, 332-43	8.4	115
9	The solar action spectrum of photosystem II damage. <i>Plant Physiology</i> , 2010 , 153, 988-93	6.6	100
8	Phenotypic plasticity in photosynthetic temperature acclimation among crop species with different cold tolerances. <i>Plant Physiology</i> , 2010 , 152, 388-99	6.6	129
7	Effect of Rubisco activase deficiency on the temperature response of CO ₂ assimilation rate and Rubisco activation state: insights from transgenic tobacco with reduced amounts of Rubisco activase. <i>Plant Physiology</i> , 2009 , 151, 2073-82	6.6	64
6	Cold-tolerant crop species have greater temperature homeostasis of leaf respiration and photosynthesis than cold-sensitive species. <i>Plant and Cell Physiology</i> , 2009 , 50, 203-15	4.9	77
5	The role of electron transport in determining the temperature dependence of the photosynthetic rate in spinach leaves grown at contrasting temperatures. <i>Plant and Cell Physiology</i> , 2008 , 49, 583-91	4.9	48
4	Effects of internal conductance on the temperature dependence of the photosynthetic rate in spinach leaves from contrasting growth temperatures. <i>Plant and Cell Physiology</i> , 2006 , 47, 1069-80	4.9	127

3	Effects of Rubisco kinetics and Rubisco activation state on the temperature dependence of the photosynthetic rate in spinach leaves from contrasting growth temperatures. <i>Plant, Cell and Environment</i> , 2006 , 29, 1659-70	8.4	145
2	Temperature acclimation of photosynthesis in spinach leaves: analyses of photosynthetic components and temperature dependencies of photosynthetic partial reactions. <i>Plant, Cell and Environment</i> , 2005 , 28, 536-547	8.4	191
1	Stomatal density affects gas diffusion and CO ₂ assimilation dynamics in Arabidopsis under fluctuating light		2