

# Wataru Yamori

## List of Publications by Citations

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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	Temperature response of photosynthesis in C3, C4, and CAM plants: temperature acclimation and temperature adaptation. <i>Photosynthesis Research</i> , <b>2014</b> , 119, 101-117	3.7	508
73	Physiological Functions of Cyclic Electron Transport Around Photosystem I in Sustaining Photosynthesis and Plant Growth. <i>Annual Review of Plant Biology</i> , <b>2016</b> , 67, 81-106	30.7	278
72	Temperature acclimation of photosynthesis in spinach leaves: analyses of photosynthetic components and temperature dependencies of photosynthetic partial reactions. <i>Plant, Cell and Environment</i> , <b>2005</b> , 28, 536-547	8.4	191
71	Thermal acclimation of photosynthesis: on the importance of adjusting our definitions and accounting for thermal acclimation of respiration. <i>Photosynthesis Research</i> , <b>2014</b> , 119, 89-100	3.7	188
70	A physiological role of cyclic electron transport around photosystem I in sustaining photosynthesis under fluctuating light in rice. <i>Scientific Reports</i> , <b>2016</b> , 6, 20147	4.9	162
69	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> , <b>2011</b> , 68, 966-76	6.9	158
68	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> , <b>2012</b> , 71, 871-80	6.9	154
67	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> , <b>2006</b> , 29, 1659-70	8.4	145
66	Phenotypic plasticity in photosynthetic temperature acclimation among crop species with different cold tolerances. <i>Plant Physiology</i> , <b>2010</b> , 152, 388-99	6.6	129
65	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> , <b>2006</b> , 47, 1069-80	4.9	127
64	The roles of ATP synthase and the cytochrome b6/f complexes in limiting chloroplast electron transport and determining photosynthetic capacity. <i>Plant Physiology</i> , <b>2011</b> , 155, 956-62	6.6	120
63	Photosynthetic response to fluctuating environments and photoprotective strategies under abiotic stress. <i>Journal of Plant Research</i> , <b>2016</b> , 129, 379-95	2.6	119
62	Effects of growth and measurement light intensities on temperature dependence of CO <sub>2</sub> assimilation rate in tobacco leaves. <i>Plant, Cell and Environment</i> , <b>2010</b> , 33, 332-43	8.4	115
61	The rate-limiting step for CO <sub>2</sub> assimilation at different temperatures is influenced by the leaf nitrogen content in several C <sub>3</sub> crop species. <i>Plant, Cell and Environment</i> , <b>2011</b> , 34, 764-77	8.4	112
60	The solar action spectrum of photosystem II damage. <i>Plant Physiology</i> , <b>2010</b> , 153, 988-93	6.6	100
59	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> , <b>2016</b> , 39, 80-7	8.4	80
58	Cold-tolerant crop species have greater temperature homeostasis of leaf respiration and photosynthesis than cold-sensitive species. <i>Plant and Cell Physiology</i> , <b>2009</b> , 50, 203-15	4.9	77

57	Photosystem I cyclic electron flow via chloroplast NADH dehydrogenase-like complex performs a physiological role for photosynthesis at low light. <i>Scientific Reports</i> , <b>2015</b> , 5, 13908	4.9	69
56	Effect of Rubisco activase deficiency on the temperature response of CO <sub>2</sub> assimilation rate and Rubisco activation state: insights from transgenic tobacco with reduced amounts of Rubisco activase. <i>Plant Physiology</i> , <b>2009</b> , 151, 2073-82	6.6	64
55	Light Controls Protein Localization through Phytochrome-Mediated Alternative Promoter Selection. <i>Cell</i> , <b>2017</b> , 171, 1316-1325.e12	56.2	62
54	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> , <b>2016</b> , 7, 448	6.2	61
53	Flavodiiron Protein Substitutes for Cyclic Electron Flow without Competing CO <sub>2</sub> Assimilation in Rice. <i>Plant Physiology</i> , <b>2018</b> , 176, 1509-1518	6.6	59
52	Increased stomatal conductance induces rapid changes to photosynthetic rate in response to naturally fluctuating light conditions in rice. <i>Plant, Cell and Environment</i> , <b>2020</b> , 43, 1230-1240	8.4	56
51	Growth and Accumulation of Secondary Metabolites in Perilla as Affected by Photosynthetic Photon Flux Density and Electrical Conductivity of the Nutrient Solution. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 708	6.2	53
50	Improved stomatal opening enhances photosynthetic rate and biomass production in fluctuating light. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 2339-2350	7	48
49	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> , <b>2008</b> , 49, 583-91	4.9	48
48	Control of vapor pressure deficit (VPD) in greenhouse enhanced tomato growth and productivity during the winter season. <i>Scientia Horticulturae</i> , <b>2015</b> , 197, 17-23	4.1	45
47	Rubisco activity is associated with photosynthetic thermotolerance in a wild rice ( <i>Oryza meridionalis</i> ). <i>Physiologia Plantarum</i> , <b>2012</b> , 146, 99-109	4.6	43
46	Chloroplast Accumulation Response Enhances Leaf Photosynthesis and Plant Biomass Production. <i>Plant Physiology</i> , <b>2018</b> , 178, 1358-1369	6.6	41
45	Natural genetic variation of the photosynthetic induction response to fluctuating light environment. <i>Current Opinion in Plant Biology</i> , <b>2019</b> , 49, 52-59	9.9	33
44	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> , <b>2017</b> , 58, 35-45	4.9	32
43	Mitochondrial Alternative Pathway-Associated Photoprotection of Photosystem II is Related to the Photorespiratory Pathway. <i>Plant and Cell Physiology</i> , <b>2016</b> , 57, 1426-1431	4.9	29
42	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> , <b>2012</b> , 63, 4781-95	7	28
41	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> , <b>2015</b> , 6, 1110	6.2	27
40	Stomatal, mesophyll conductance, and biochemical limitations to photosynthesis during induction. <i>Plant Physiology</i> , <b>2021</b> , 185, 146-160	6.6	22

39	Far-Red Light Accelerates Photosynthesis in the Low-Light Phases of Fluctuating Light. <i>Plant and Cell Physiology</i> , <b>2020</b> , 61, 192-202	4.9	22
38	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> , <b>2018</b> , 53, 1804-1809	2.4	22
37	High-yielding rice Takanari has superior photosynthetic response to a commercial rice Koshihikari under fluctuating light. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 5287-5297	7	20
36	Higher Stomatal Density Improves Photosynthetic Induction and Biomass Production in Arabidopsis Under Fluctuating Light. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 589603	6.2	20
35	Homeostasis of the temperature sensitivity of respiration over a range of growth temperatures indicated by a modified Arrhenius model. <i>New Phytologist</i> , <b>2015</b> , 207, 34-42	9.8	17
34	Cotton bracts are adapted to a microenvironment of concentrated CO <sub>2</sub> produced by rapid fruit respiration. <i>Annals of Botany</i> , <b>2013</b> , 112, 31-40	4.1	16
33	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> , <b>2017</b> , 52, 831-835	2.4	14
32	Overexpression of both Rubisco and Rubisco activase rescues rice photosynthesis and biomass under heat stress. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 2308-2320	8.4	14
31	Whole Irradiated Plant Leaves Showed Faster Photosynthetic Induction Than Individually Irradiated Leaves Improved Stomatal Opening. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1512	6.2	12
30	The Arabidopsis Mutant Has a Second-Site Mutation in the Gene That Alters Chloroplast Size, Photosynthetic Traits, and Leaf Growth. <i>Plant Physiology</i> , <b>2018</b> , 178, 3-6	6.6	12
29	Supplemental LED inter-lighting compensates for a shortage of light for plant growth and yield under the lack of sunshine. <i>PLoS ONE</i> , <b>2018</b> , 13, e0206592	3.7	11
28	Co-overproducing Rubisco and Rubisco activase enhances photosynthesis in the optimal temperature range in rice. <i>Plant Physiology</i> , <b>2021</b> , 185, 108-119	6.6	8
27	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> , <b>2018</b> , 2018, 1-9	2.7	8
26	Feasibility Study of Rice Growth in Plant Factories. <i>Rice Research Open Access</i> , <b>2014</b> , 2,		7
25	Rice Cultivar Takanari Has Higher Photosynthetic Performance Under Fluctuating Light Than Koshihikari, Especially Under Limited Nitrogen Supply and Elevated CO <sub>2</sub> . <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 1308	6.2	7
24	Minimizing VPD Fluctuations Maintains Higher Stomatal Conductance and Photosynthesis, Resulting in Improvement of Plant Growth in Lettuce. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 646144	6.2	6
23	Effects of co-overproduction of sedoheptulose-1,7-bisphosphatase and Rubisco on photosynthesis in rice. <i>Soil Science and Plant Nutrition</i> , <b>2019</b> , 65, 36-40	1.6	6
22	Overexpression of BUNDLE SHEATH DEFECTIVE 2 improves the efficiency of photosynthesis and growth in Arabidopsis. <i>Plant Journal</i> , <b>2020</b> , 102, 129-137	6.9	5

21	Photosynthesis and respiration <b>2016</b> , 141-150		4
20	Strategies for Optimizing Photosynthesis with Biotechnology to Improve Crop Yield. <i>Books in Soils, Plants, and the Environment</i> , <b>2016</b> , 741-759		4
19	Feasibility Study of Rice Growth in Plant Factories. <i>Rice Research Open Access</i> , <b>2014</b> , 02,		3
18	Collaboration between NDH and KEA3 Allows Maximally Efficient Photosynthesis after a Long Dark Adaptation. <i>Plant Physiology</i> , <b>2020</b> , 184, 2078-2090	6.6	3
17	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> , <b>2021</b> , 149, 69-82	3.7	3
16	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> , <b>2021</b> , 307, 110902	5.3	3
15	Gene co-expression network analysis identifies BEH3 as a stabilizer of secondary vascular development in <i>Arabidopsis</i> . <i>Plant Cell</i> , <b>2021</b> , 33, 2618-2636	11.6	3
14	Strategies for Engineering Photosynthesis for Enhanced Plant Biomass Production <b>2021</b> , 31-58		3
13	Expression of rice promotes cell proliferation, leading to enhancement of growth in transgenic tobacco. <i>Plant Biotechnology</i> , <b>2017</b> , 34, 29-38	1.3	2
12	Stomatal density affects gas diffusion and CO <sub>2</sub> assimilation dynamics in <i>Arabidopsis</i> under fluctuating light		2
11	Next Evolution of Agriculture: A Review of Innovations in Plant Factories. <i>Books in Soils, Plants, and the Environment</i> , <b>2016</b> , 723-740		2
10	Quantification of Rubisco activase content in leaf extracts. <i>Methods in Molecular Biology</i> , <b>2011</b> , 684, 383-411		1
9	Increased Cuticle Permeability Caused by a New Allele of <i>AtGLK1</i> Enhances CO <sub>2</sub> Uptake. <i>Plant Physiology</i> , <b>2020</b> , 184, 1917-1926	6.6	1
8	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> , <b>2021</b> , 59, 21-27	0.9	1
7	Photosynthesis and respiration <b>2020</b> , 197-206		0
6	Drought stress reduces crop carbon gain due to delayed photosynthetic induction under fluctuating light conditions. <i>Physiologia Plantarum</i> , <b>2021</b> , e13603	4.6	0
5	Concurrent Increases in Leaf Temperature With Light Accelerate Photosynthetic Induction in Tropical Tree Seedlings. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 1216	6.2	0
4	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> , <b>2021</b> , 59, 59-67	0.9	0

3	Optimum root zone temperature of photosynthesis and plant growth depends on air temperature in lettuce plants.. <i>Plant Molecular Biology</i> , <b>2022</b> , 1	4.6	o
2	Effects of anoxia and hypoxia on the two-spotted spider mite, <i>Tetranychus urticae</i> (Acari: Tetranychidae). <i>Applied Entomology and Zoology</i> , <b>2018</b> , 53, 535-541	1.5	
1	The Effects of Antisense Suppression of $\beta$ Subunit of Chloroplast ATP Synthase on the Rates of Chloroplast Electron Transport and CO <sub>2</sub> Assimilation in Transgenic Tobacco. <i>Advanced Topics in Science and Technology in China</i> , <b>2013</b> , 773-776	0.2	