

# Yuji Suzuki

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

2,287  
citations

236925

25  
h-index

223800

46  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppression of chloroplast triose phosphate isomerase evokes inorganic phosphate-limited photosynthesis in rice. <i>Plant Physiology</i> , 2022, 188, 1550-1562.	4.8	13
2	Expression of flavodiiron protein rescues defects in electron transport around PSI resulting from overproduction of Rubisco activase in rice. <i>Journal of Experimental Botany</i> , 2022, 73, 2589-2600.	4.8	7
3	Effects of suppression of chloroplast phosphoglycerate kinase on photosynthesis in rice. <i>Photosynthesis Research</i> , 2022, 153, 83-91.	2.9	4
4	The <i>gs3</i> allele from a large-grain rice cultivar, Akita 63, increases yield and improves nitrogen-use efficiency. <i>Plant Direct</i> , 2022, 6, .	1.9	6
5	Overproduction of Chloroplast Glyceraldehyde-3-Phosphate Dehydrogenase Improves Photosynthesis Slightly under Elevated [CO <sub>2</sub> ] Conditions in Rice. <i>Plant and Cell Physiology</i> , 2021, 62, 156-165.	3.1	21
6	Photochemistry of Photosystems II and I in Rice Plants Grown under Different N Levels at Normal and High Temperature. <i>Plant and Cell Physiology</i> , 2021, 62, 1121-1130.	3.1	13
7	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.	5.7	63
8	Effects of co-overproduction of Rubisco and chloroplast glyceraldehyde-3-phosphate dehydrogenase on photosynthesis in rice. <i>Soil Science and Plant Nutrition</i> , 2021, 67, 283-287.	1.9	8
9	Co-overproducing Rubisco and Rubisco activase enhances photosynthesis in the optimal temperature range in rice. <i>Plant Physiology</i> , 2021, 185, 108-119.	4.8	25
10	Oxidation of the reaction center chlorophyll of photosystem I is induced via close cooperation of photosystems II and I with progress of drought stress in soybean seedlings. <i>Soil Science and Plant Nutrition</i> , 2021, 67, 662-669.	1.9	8
11	Effects of overexpression of the Rubisco small subunit gene under the control of the Rubisco activase promoter on Rubisco contents of rice leaves at different positions. <i>Soil Science and Plant Nutrition</i> , 2020, 66, 569-578.	1.9	2
12	Photorespiration Coupled With CO <sub>2</sub> Assimilation Protects Photosystem I From Photoinhibition Under Moderate Poly(Ethylene Glycol)-Induced Osmotic Stress in Rice. <i>Frontiers in Plant Science</i> , 2020, 11, 1121.	3.6	19
13	Editorial: O <sub>2</sub> and ROS Metabolisms in Photosynthetic Organisms. <i>Frontiers in Plant Science</i> , 2020, 11, 618550.	3.6	0
14	Intrinsic Fluctuations in Transpiration Induce Photorespiration to Oxidize P700 in Photosystem I. <i>Plants</i> , 2020, 9, 1761.	3.5	15
15	P700 oxidation suppresses the production of reactive oxygen species in photosystem I. <i>Advances in Botanical Research</i> , 2020, 96, 151-176.	1.1	15
16	Photorespiration Enhances Acidification of the Thylakoid Lumen, Reduces the Plastoquinone Pool, and Contributes to the Oxidation of P700 at a Lower Partial Pressure of CO <sub>2</sub> in Wheat Leaves. <i>Plants</i> , 2020, 9, 319.	3.5	19
17	Effects of Overproduction of Rubisco Activase on Rubisco Content in Transgenic Rice Grown at Different N Levels. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1626.	4.1	24
18	Transgenic rice overproducing Rubisco exhibits increased yields with improved nitrogen-use efficiency in an experimental paddy field. <i>Nature Food</i> , 2020, 1, 134-139.	14.0	107

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19	Oxygen response of leaf CO <sub>2</sub> compensation points used to determine Rubisco specificity factors of gymnosperm species. <i>Journal of Plant Research</i> , 2020, 133, 205-215.	2.4	6
20	Phosphorus toxicity disrupts Rubisco activation and reactive oxygen species defence systems by phytic acid accumulation in leaves. <i>Plant, Cell and Environment</i> , 2020, 43, 2033-2053.	5.7	32
21	Oxidation of P700 Induces Alternative Electron Flow in Photosystem I in Wheat Leaves. <i>Plants</i> , 2019, 8, 152.	3.5	29
22	Responses of the Photosynthetic Electron Transport Reactions Stimulate the Oxidation of the Reaction Center Chlorophyll of Photosystem I, P700, under Drought and High Temperatures in Rice. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2068.	4.1	63
23	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.	1.9	13
24	Relationship between Rubisco activase and Rubisco contents in transgenic rice plants with overproduced or decreased Rubisco content. <i>Soil Science and Plant Nutrition</i> , 2018, 64, 352-359.	1.9	18
25	Flavodiiron Protein Substitutes for Cyclic Electron Flow without Competing CO <sub>2</sub> Assimilation in Rice. <i>Plant Physiology</i> , 2018, 176, 1509-1518.	4.8	91
26	Effects of genetic manipulation of the activity of photorespiration on the redox state of photosystem I and its robustness against excess light stress under CO <sub>2</sub> -limited conditions in rice. <i>Photosynthesis Research</i> , 2018, 137, 431-441.	2.9	23
27	Effects of co-overexpression of the genes of Rubisco and transketolase on photosynthesis in rice. <i>Photosynthesis Research</i> , 2017, 131, 281-289.	2.9	43
28	A Small Decrease in Rubisco Content by Individual Suppression of RBCS Genes Leads to Improvement of Photosynthesis and Greater Biomass Production in Rice Under Conditions of Elevated CO <sub>2</sub> . <i>Plant and Cell Physiology</i> , 2017, 58, 635-642.	3.1	41
29	Post-illumination transient O <sub>2</sub> uptake is driven by photorespiration in tobacco leaves. <i>Physiologia Plantarum</i> , 2016, 156, 227-238.	5.2	30
30	Differential Expression of Genes of the Calvin-Benson Cycle and its Related Genes During Leaf Development in Rice. <i>Plant and Cell Physiology</i> , 2016, 57, 115-124.	3.1	22
31	Enhanced leaf photosynthesis as a target to increase grain yield: insights from transgenic rice lines with variable Rieske FeS protein content in the cytochrome <i>b<sub>6</sub>/f</i> complex. <i>Plant, Cell and Environment</i> , 2016, 39, 80-87.	5.7	125
32	Whole-Plant Growth and N Utilization in Transgenic Rice Plants with Increased or Decreased Rubisco Content under Different CO <sub>2</sub> Partial Pressures. <i>Plant and Cell Physiology</i> , 2014, 55, 1905-1911.	3.1	29
33	Translational downregulation of RBCL is operative in the coordinated expression of Rubisco genes in senescent leaves in rice. <i>Journal of Experimental Botany</i> , 2013, 64, 1145-1152.	4.8	34
34	Availability of Rubisco Small Subunit Up-Regulates the Transcript Levels of Large Subunit for Stoichiometric Assembly of Its Holoenzyme in Rice. <i>Plant Physiology</i> , 2012, 160, 533-540.	4.8	55
35	O <sub>2</sub> -enhanced induction of photosynthesis in rice leaves: the Mehler-ascorbate peroxidase (MAP) pathway drives cyclic electron flow within PSII and cyclic electron flow around PSI. <i>Soil Science and Plant Nutrition</i> , 2012, 58, 718-727.	1.9	8
36	RBCS1A and RBCS3B, two major members within the Arabidopsis RBCS multigene family, function to yield sufficient Rubisco content for leaf photosynthetic capacity. <i>Journal of Experimental Botany</i> , 2012, 63, 2159-2170.	4.8	98

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37	Effect of individual suppression of <i>RBCS</i> multigene family on Rubisco contents in rice leaves. <i>Plant, Cell and Environment</i> , 2012, 35, 546-553.	5.7	52
38	Metabolome analysis of photosynthesis and the related primary metabolites in the leaves of transgenic rice plants with increased or decreased Rubisco content. <i>Plant, Cell and Environment</i> , 2012, 35, 1369-1379.	5.7	50
39	Cyclic electron flow around PSI functions in the photoinhibited rice leaves. <i>Soil Science and Plant Nutrition</i> , 2011, 57, 105-113.	1.9	4
40	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, 966-976.	5.7	211
41	New insight into photosynthetic acclimation to elevated CO <sub>2</sub> : The role of leaf nitrogen and ribulose-1,5-bisphosphate carboxylase/oxygenase content in rice leaves. <i>Environmental and Experimental Botany</i> , 2011, 71, 128-136.	4.2	76
42	Os- <i>GIGANTEA</i> Confers Robust Diurnal Rhythms on the Global Transcriptome of Rice in the Field Å. <i>Plant Cell</i> , 2011, 23, 1741-1755.	6.6	184
43	Differences in Rubisco content and its synthesis in leaves at different positions in <i>Eucalyptus globulus</i> seedlings. <i>Plant, Cell and Environment</i> , 2010, 33, 1314-1323.	5.7	37
44	Differences in Expression of the RBCS Multigene Family and Rubisco Protein Content in Various Rice Plant Tissues at Different Growth Stages. <i>Plant and Cell Physiology</i> , 2009, 50, 1851-1855.	3.1	51
45	Rubisco content and photosynthesis of leaves at different positions in transgenic rice with an overexpression of <i>RBCS</i> . <i>Plant, Cell and Environment</i> , 2009, 32, 417-427.	5.7	92
46	RNA Extraction from Various Recalcitrant Plant Tissues with a Cethyltrimethylammonium Bromide-Containing Buffer Followed by an Acid Guanidium Thiocyanate-Phenol-Chloroform Treatment. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 1951-1953.	1.3	26
47	Changes in the Synthesis of Rubisco in Rice Leaves in Relation to Senescence and N Influx. <i>Annals of Botany</i> , 2008, 101, 135-144.	2.9	54
48	Increased Rubisco Content in Transgenic Rice Transformed with the <i>ε</i> -Sense™ <i>rbcS</i> Gene. <i>Plant and Cell Physiology</i> , 2007, 48, 626-637.	3.1	119
49	Effects of nitrogen nutrition on the relationships between the levels of <i>rbcS</i> and <i>rbcl</i> mRNAs and the amount of ribulose 1.5-bisphosphate carboxylase/oxygenase synthesized in the eighth leaves of rice from emergence through senescence. <i>Plant, Cell and Environment</i> , 2005, 28, 1589-1600.	5.7	37
50	RNA isolation from siliques, dry seeds, and other tissues of <i>Arabidopsis thaliana</i> . <i>BioTechniques</i> , 2004, 37, 542-544.	1.8	145
51	Amount of Ribulose-1,5-bisphosphate carboxylase/oxygenase (Rubisco) Protein and levels of mRNAs of <i>rbcS</i> and <i>rbcL</i> in the leaves at different positions in transgenic rice plants with decreased content of Rubisco. <i>Soil Science and Plant Nutrition</i> , 2004, 50, 233-239.	1.9	20