

# Daisuke Takagi

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7602756/daisuke-takagi-publications-by-citations.pdf>

**Version:** 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

22

papers

660

citations

12

h-index

25

g-index

27

ext. papers

852

ext. citations

5

avg, IF

4.15

L-index

#	Paper	IF	Citations
22	Superoxide and Singlet Oxygen Produced within the Thylakoid Membranes Both Cause Photosystem I Photoinhibition. <i>Plant Physiology</i> , <b>2016</b> , 171, 1626-34	6.6	154
21	Repetitive short-pulse light mainly inactivates photosystem I in sunflower leaves. <i>Plant and Cell Physiology</i> , <b>2014</b> , 55, 1184-93	4.9	111
20	Chloroplastic ATP synthase builds up a proton motive force preventing production of reactive oxygen species in photosystem I. <i>Plant Journal</i> , <b>2017</b> , 91, 306-324	6.9	68
19	Diversity of strategies for escaping reactive oxygen species production within photosystem I among land plants: P700 oxidation system is prerequisite for alleviating photoinhibition in photosystem I. <i>Physiologia Plantarum</i> , <b>2017</b> , 161, 56-74	4.6	53
18	The Calvin cycle inevitably produces sugar-derived reactive carbonyl methylglyoxal during photosynthesis: a potential cause of plant diabetes. <i>Plant and Cell Physiology</i> , <b>2014</b> , 55, 333-40	4.9	40
17	Land plants drive photorespiration as higher electron-sink: comparative study of post-illumination transient O <sub>2</sub> -uptake rates from liverworts to angiosperms through ferns and gymnosperms. <i>Physiologia Plantarum</i> , <b>2017</b> , 161, 138-149	4.6	35
16	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> , <b>2019</b> , 20,	6.3	33
15	Photorespiration provides the chance of cyclic electron flow to operate for the redox-regulation of P700 in photosynthetic electron transport system of sunflower leaves. <i>Photosynthesis Research</i> , <b>2016</b> , 129, 279-90	3.7	29
14	Post-illumination transient O <sub>2</sub> -uptake is driven by photorespiration in tobacco leaves. <i>Physiologia Plantarum</i> , <b>2016</b> , 156, 227-238	4.6	25
13	PROTON GRADIENT REGULATION 5 supports linear electron flow to oxidize photosystem I. <i>Physiologia Plantarum</i> , <b>2018</b> , 164, 337-348	4.6	22
12	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> , <b>2018</b> , 137, 431-441	3.7	18
11	Growth Light Environment Changes the Sensitivity of Photosystem I Photoinhibition Depending on Common Wheat Cultivars. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 686	6.2	14
10	Overproduction of PGR5 enhances the electron sink downstream of photosystem I in a C <sub>3</sub> plant, <i>Flaveria bidentis</i> . <i>Plant Journal</i> , <b>2020</b> , 103, 814-823	6.9	10
9	Altered levels of primary metabolites in response to exogenous indole-3-acetic acid in wild type and auxin signaling mutants of <i>Arabidopsis thaliana</i> : A capillary electrophoresis-mass spectrometry analysis. <i>Plant Biotechnology</i> , <b>2015</b> , 32, 65-79	1.3	10
8	Suppression of Chloroplastic Alkenal/One Oxidoreductase Represses the Carbon Catabolic Pathway in <i>Arabidopsis</i> Leaves during Night. <i>Plant Physiology</i> , <b>2016</b> , 170, 2024-39	6.6	9
7	Antimycin A inhibits cytochrome b-mediated cyclic electron flow within photosystem II. <i>Photosynthesis Research</i> , <b>2019</b> , 139, 487-498	3.7	8
6	Photosynthetic Model Membranes of Natural Plant Thylakoid Embedded in a Patterned Polymeric Lipid Bilayer. <i>Langmuir</i> , <b>2020</b> , 36, 5863-5871	4	7

5	Phosphorus toxicity disrupts Rubisco activation and reactive oxygen species defence systems by phytic acid accumulation in leaves. <i>Plant, Cell and Environment</i> , <b>2020</b> , 43, 2033-2053	8.4	7
4	O <sub>2</sub> supports 3-phosphoglycerate-dependent O <sub>2</sub> evolution in chloroplasts from spinach leaves. <i>Soil Science and Plant Nutrition</i> , <b>2012</b> , 58, 462-468	1.6	5
3	Manganese toxicity disrupts indole acetic acid homeostasis and suppresses the CO <sub>2</sub> assimilation reaction in rice leaves. <i>Scientific Reports</i> , <b>2021</b> , 11, 20922	4.9	1
2	Low N level increases the susceptibility of PSI to photoinhibition induced by short repetitive flashes in leaves of different rice varieties.. <i>Physiologia Plantarum</i> , <b>2022</b> , e13644	4.6	0
1	P700 Oxidation System—the Universal Defense Mechanisms for Avoiding Oxidative Stress in Photosynthetic Organisms: Photosynthetic Organisms Created Defense Systems Through a Struggle Against O <sub>2</sub> . <i>Kagaku To Seibutsu</i> , <b>2018</b> , 56, 82-94	0	