

Daisuke Takagi

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.

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	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> , 2022 , e13644	4.6	0
21	Manganese toxicity disrupts indole acetic acid homeostasis and suppresses the CO assimilation reaction in rice leaves. <i>Scientific Reports</i> , 2021 , 11, 20922	4.9	1
20	Overproduction of PGR5 enhances the electron sink downstream of photosystem I in a C plant, <i>Flaveria bidentis</i> . <i>Plant Journal</i> , 2020 , 103, 814-823	6.9	10
19	Photosynthetic Model Membranes of Natural Plant Thylakoid Embedded in a Patterned Polymeric Lipid Bilayer. <i>Langmuir</i> , 2020 , 36, 5863-5871	4	7
18	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	8.4	7
17	Growth Light Environment Changes the Sensitivity of Photosystem I Photoinhibition Depending on Common Wheat Cultivars. <i>Frontiers in Plant Science</i> , 2019 , 10, 686	6.2	14
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> , 2019 , 20,	6.3	33
15	Antimycin A inhibits cytochrome b-mediated cyclic electron flow within photosystem II. <i>Photosynthesis Research</i> , 2019 , 139, 487-498	3.7	8
14	PROTON GRADIENT REGULATION 5 supports linear electron flow to oxidize photosystem I. <i>Physiologia Plantarum</i> , 2018 , 164, 337-348	4.6	22
13	P700 Oxidation System—the Universal Defense Mechanisms for Avoiding Oxidative Stress in Photosynthetic Organisms: Photosynthetic Organisms Created Defense Systems Through a Struggle Against O ₂ . <i>Kagaku To Seibutsu</i> , 2018 , 56, 82-94	0	
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-limited conditions in rice. <i>Photosynthesis Research</i> , 2018 , 137, 431-441	3.7	18
11	Chloroplastic ATP synthase builds up a proton motive force preventing production of reactive oxygen species in photosystem I. <i>Plant Journal</i> , 2017 , 91, 306-324	6.9	68
10	Land plants drive photorespiration as higher electron-sink: comparative study of post-illumination transient O ₂ -uptake rates from liverworts to angiosperms through ferns and gymnosperms. <i>Physiologia Plantarum</i> , 2017 , 161, 138-149	4.6	35
9	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> , 2017 , 161, 56-74	4.6	53
8	Superoxide and Singlet Oxygen Produced within the Thylakoid Membranes Both Cause Photosystem I Photoinhibition. <i>Plant Physiology</i> , 2016 , 171, 1626-34	6.6	154
7	Post-illumination transient O ₂ -uptake is driven by photorespiration in tobacco leaves. <i>Physiologia Plantarum</i> , 2016 , 156, 227-238	4.6	25
6	Suppression of Chloroplastic Alkenal/One Oxidoreductase Represses the Carbon Catabolic Pathway in Arabidopsis Leaves during Night. <i>Plant Physiology</i> , 2016 , 170, 2024-39	6.6	9

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| 5 | 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> , 2016 , 129, 279-90 | 3.7 | 29 |
| 4 | 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> , 2015 , 32, 65-79 | 1.3 | 10 |
| 3 | Repetitive short-pulse light mainly inactivates photosystem I in sunflower leaves. <i>Plant and Cell Physiology</i> , 2014 , 55, 1184-93 | 4.9 | 111 |
| 2 | The Calvin cycle inevitably produces sugar-derived reactive carbonyl methylglyoxal during photosynthesis: a potential cause of plant diabetes. <i>Plant and Cell Physiology</i> , 2014 , 55, 333-40 | 4.9 | 40 |
| 1 | O ₂ supports 3-phosphoglycerate-dependent O ₂ evolution in chloroplasts from spinach leaves. <i>Soil Science and Plant Nutrition</i> , 2012 , 58, 462-468 | 1.6 | 5 |