

Ginga Shimakawa

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.

48
papers

833
citations

19
h-index

27
g-index

52
ext. papers

1,131
ext. citations

4.7
avg, IF

4.81
L-index

#	Paper	IF	Citations
48	The Liverwort, <i>Marchantia polymorpha</i> , Drives Alternative Electron Flow Using a Flavodiiron Protein to Protect PSI. <i>Plant Physiology</i> , 2017 , 173, 1636-1647	6.6	65
47	FLAVODIIRON2 and FLAVODIIRON4 proteins mediate an oxygen-dependent alternative electron flow in <i>Synechocystis</i> sp. PCC 6803 under CO ₂ -limited conditions. <i>Plant Physiology</i> , 2015 , 167, 472-80	6.6	54
46	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
45	Oxidation of P700 Ensures Robust Photosynthesis. <i>Frontiers in Plant Science</i> , 2018 , 9, 1617	6.2	47
44	Oxidation of P700 in Photosystem I Is Essential for the Growth of Cyanobacteria. <i>Plant Physiology</i> , 2016 , 172, 1443-1450	6.6	41
43	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
42	Reduction-Induced Suppression of Electron Flow (RISE) in the Photosynthetic Electron Transport System of <i>Synechococcus elongatus</i> PCC 7942. <i>Plant and Cell Physiology</i> , 2016 , 57, 1443-1453	4.9	39
41	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
40	The impact of photosynthesis on initiation of leaf senescence. <i>Physiologia Plantarum</i> , 2019 , 166, 148-164.6	4.6	33
39	Overexpression of <i>flv3</i> improves photosynthesis in the cyanobacterium <i>Synechocystis</i> sp. PCC6803 by enhancement of alternative electron flow. <i>Biotechnology for Biofuels</i> , 2014 , 7, 493	7.8	32
38	Functional analysis of the AKR4C subfamily of <i>Arabidopsis thaliana</i> : model structures, substrate specificity, acrolein toxicity, and responses to light and [CO ₂]. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013 , 77, 2038-45	2.1	29
37	O ₂ -dependent large electron flow functioned as an electron sink, replacing the steady-state electron flux in photosynthesis in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803, but not in the cyanobacterium <i>Synechococcus</i> sp. PCC 7942. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014 , 78, 384-93	2.1	27
36	Diverse strategies of O ₂ usage for preventing photo-oxidative damage under CO ₂ limitation during algal photosynthesis. <i>Scientific Reports</i> , 2017 , 7, 41022	4.9	27
35	Respiration accumulates Calvin cycle intermediates for the rapid start of photosynthesis in <i>Synechocystis</i> sp. PCC 6803. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014 , 78, 1997-2007	2.1	25
34	Post-illumination transient O ₂ -uptake is driven by photorespiration in tobacco leaves. <i>Physiologia Plantarum</i> , 2016 , 156, 227-238	4.6	25
33	What Quantity of Photosystem I Is Optimum for Safe Photosynthesis?. <i>Plant Physiology</i> , 2019 , 179, 1479-1485	6.4	23
32	Reduction-Induced Suppression of Electron Flow (RISE) Is Relieved by Non-ATP-Consuming Electron Flow in PCC 7942. <i>Frontiers in Microbiology</i> , 2018 , 9, 886	5.7	22

31	Comparative analysis of strategies to prepare electron sinks in aquatic photoautotrophs. <i>Photosynthesis Research</i> , 2019 , 139, 401-411	3.7	19
30	Diversity in photosynthetic electron transport under [CO ₂]-limitation: the cyanobacterium <i>Synechococcus</i> sp. PCC 7002 and green alga <i>Chlamydomonas reinhardtii</i> drive an O ₂ -dependent alternative electron flow and non-photochemical quenching of chlorophyll fluorescence during CO ₂ -limited photosynthesis. <i>Photosynthesis Research</i> , 2016 , 130, 293-305	3.7	19
29	Changing frequency of fluctuating light reveals the molecular mechanism for P700 oxidation in plant leaves. <i>Plant Direct</i> , 2018 , 2, e00073	3.3	18
28	Why don't plants have diabetes? Systems for scavenging reactive carbonyls in photosynthetic organisms. <i>Biochemical Society Transactions</i> , 2014 , 42, 543-7	5.1	18
27	Identification of the electron donor to flavodiiron proteins in <i>Synechocystis</i> sp. PCC 6803 by in vivo spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020 , 1861, 148256	4.6	17
26	Light-Harvesting Strategy during CO ₂ -Dependent Photosynthesis in the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1028-1033	6.4	15
25	Scavenging systems for reactive carbonyls in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013 , 77, 2441-8	2.1	15
24	Acrolein, an α,β -unsaturated carbonyl, inhibits both growth and PSII activity in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013 , 77, 1655-60	2.1	15
23	Intrinsic Fluctuations in Transpiration Induce Photorespiration to Oxidize P700 in Photosystem I. <i>Plants</i> , 2020 , 9,	4.5	12
22	P700 oxidation suppresses the production of reactive oxygen species in photosystem I. <i>Advances in Botanical Research</i> , 2020 , 96, 151-176	2.2	11
21	Responses of the chloroplast glyoxalase system to high CO ₂ concentrations. <i>Bioscience, Biotechnology and Biochemistry</i> , 2018 , 82, 2072-2083	2.1	6
20	Respiratory terminal oxidases alleviate photo-oxidative damage in photosystem I during repetitive short-pulse illumination in <i>Synechocystis</i> sp. PCC 6803. <i>Photosynthesis Research</i> , 2018 , 137, 241-250	3.7	5
19	Over Expression of the Cyanobacterial Pgr5-Homologue Leads to Pseudoreversion in a Gene Coding for a Putative Esterase in <i>Synechocystis</i> 6803. <i>Life</i> , 2020 , 10,	3	5
18	Near-infrared in vivo measurements of photosystem I and its luminal electron donors with a recently developed spectrophotometer. <i>Photosynthesis Research</i> , 2020 , 144, 63-72	3.7	4
17	Characterization of Light-Enhanced Respiration in Cyanobacteria. <i>International Journal of Molecular Sciences</i> , 2020 , 22,	6.3	4
16	Quantification of NAD(P)H in cyanobacterial cells by a phenol extraction method. <i>Photosynthesis Research</i> , 2021 , 148, 57-66	3.7	4
15	Dynamic Changes in Protein-Membrane Association for Regulating Photosynthetic Electron Transport. <i>Cells</i> , 2021 , 10,	7.9	4
14	Photoprotection mechanisms under different CO ₂ regimes during photosynthesis in a green alga <i>Chlorella variabilis</i> . <i>Photosynthesis Research</i> , 2020 , 144, 397-407	3.7	3

13	Medium-chain dehydrogenase/reductase and aldo-keto reductase scavenge reactive carbonyls in <i>Synechocystis</i> sp. PCC 6803. <i>FEBS Letters</i> , 2018 , 592, 1010-1019	3.8	3
12	Time-of-day-dependent responses of cyanobacterial cellular viability against oxidative stress. <i>Scientific Reports</i> , 2020 , 10, 20029	4.9	3
11	Photosynthetic Linear Electron Flow Drives CO Assimilation in Maize Leaves. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
10	A Carbon Dioxide Limitation-Inducible Protein, Cola, Supports the Growth of <i>Synechococcus</i> sp. PCC 7002. <i>Marine Drugs</i> , 2017 , 15,	6	2
9	Changes in Photosynthetic Electron Transport during Leaf Senescence in Two Barley Varieties Grown in Contrasting Growth Regimes. <i>Plant and Cell Physiology</i> , 2020 , 61, 1986-1994	4.9	2
8	Ferrihydrite Reduction by Photosynthetic sp. PCC 6803 and Its Correlation With Electricity Generation. <i>Frontiers in Microbiology</i> , 2021 , 12, 650832	5.7	2
7	Evolutionary differentiation between alga- and plant-type plastid terminal oxidase: Study of plastid terminal oxidase PTOX isoforms in <i>Marchantia polymorpha</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021 , 1862, 148309	4.6	2
6	Time-of-day-dependent responses of cyanobacterial cellular viability against oxidative stress		1
5	Role of the two PsaE isoforms on O ₂ reduction at photosystem I in <i>Arabidopsis thaliana</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020 , 1861, 148089	4.6	1
4	NADPH production in dark stages is critical for cyanobacterial photocurrent generation: a study using mutants deficient in oxidative pentose phosphate pathway.. <i>Photosynthesis Research</i> , 2022 , 1	3.7	1
3	Order-of-magnitude enhancement in photocurrent generation of <i>Synechocystis</i> sp. PCC 6803 by outer membrane deprivation. <i>Nature Communications</i> , 2022 , 13,	17.4	1
2	Coral symbionts evolved a functional polycistronic flavodiiron gene. <i>Photosynthesis Research</i> , 2021 , 1	3.7	0
1	Physiological Roles of Flavodiiron Proteins and Photorespiration in the Liverwort. <i>Frontiers in Plant Science</i> , 2021 , 12, 668805	6.2	0