

Shunichi Takahashi

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

6,786
citations

159358

30
h-index

253896

43
g-index

47
all docs

47
docs citations

47
times ranked

6607
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoinhibition of photosystem II under environmental stress. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 414-421.	0.5	1,231
2	How do environmental stresses accelerate photoinhibition?. <i>Trends in Plant Science</i> , 2008, 13, 178-182.	4.3	935
3	Photoprotection in plants: a new light on photosystem II damage. <i>Trends in Plant Science</i> , 2011, 16, 53-60.	4.3	823
4	Coral bleaching: the role of the host. <i>Trends in Ecology and Evolution</i> , 2009, 24, 16-20.	4.2	461
5	An alternative pathway for nitric oxide production in plants: new features of an old enzyme. <i>Trends in Plant Science</i> , 1999, 4, 128-129.	4.3	338
6	Two-Step Mechanism of Photodamage to Photosystem II: Step 1 Occurs at the Oxygen-Evolving Complex and Step 2 Occurs at the Photochemical Reaction Center. <i>Biochemistry</i> , 2005, 44, 8494-8499.	1.2	309
7	Repair Machinery of Symbiotic Photosynthesis as the Primary Target of Heat Stress for Reef-Building Corals. <i>Plant and Cell Physiology</i> , 2004, 45, 251-255.	1.5	242
8	How Does Cyclic Electron Flow Alleviate Photoinhibition in Arabidopsis? <i>Plant Physiology</i> , 2009, 149, 1560-1567.	2.3	227
9	Impairment of the Photorespiratory Pathway Accelerates Photoinhibition of Photosystem II by Suppression of Repair But Not Acceleration of Damage Processes in Arabidopsis. <i>Plant Physiology</i> , 2007, 144, 487-494.	2.3	187
10	Artificial remodelling of alternative electron flow by flavodiiron proteins in Arabidopsis. <i>Nature Plants</i> , 2016, 2, 16012.	4.7	182
11	Different thermal sensitivity of the repair of photodamaged photosynthetic machinery in cultured <i>Symbiodinium</i> species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3237-3242.	3.3	157
12	Systematic Analysis of the Relation of Electron Transport and ATP Synthesis to the Photodamage and Repair of Photosystem II in <i>Synechocystis</i> . <i>Plant Physiology</i> , 2005, 137, 263-273.	2.3	145
13	The Roles of ATP Synthase and the Cytochrome <i>b₆f</i> Complexes in Limiting Chloroplast Electron Transport and Determining Photosynthetic Capacity. <i>Plant Physiology</i> , 2011, 155, 956-962.	2.3	144
14	Interruption of the Calvin cycle inhibits the repair of Photosystem II from photodamage. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1708, 352-361.	0.5	139
15	Heat stress causes inhibition of the <i>de novo</i> synthesis of antenna proteins and photobleaching in cultured <i>Symbiodinium</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4203-4208.	3.3	127
16	The Solar Action Spectrum of Photosystem II Damage. <i>Plant Physiology</i> , 2010, 153, 988-993.	2.3	124
17	Reversible inhibition of photophosphorylation in chloroplasts by nitric oxide. <i>FEBS Letters</i> , 2002, 512, 145-148.	1.3	108
18	Glycerate-3-phosphate, produced by CO ₂ fixation in the Calvin cycle, is critical for the synthesis of the D1 protein of photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 198-205.	0.5	81

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19	Photodamage to the oxygen evolving complex of photosystem II by visible light. <i>Scientific Reports</i> , 2015, 5, 16363.	1.6	77
20	Microplastics disturb the anthozoan-algae symbiotic relationship. <i>Marine Pollution Bulletin</i> , 2018, 135, 83-89.	2.3	76
21	Gymnosperms Have Increased Capacity for Electron Leakage to Oxygen (Mehler and PTOX reactions) in Photosynthesis Compared with Angiosperms. <i>Plant and Cell Physiology</i> , 2013, 54, 1152-1163.	1.5	69
22	Acceptable symbiont cell size differs among cnidarian species and may limit symbiont diversity. <i>ISME Journal</i> , 2017, 11, 1702-1712.	4.4	53
23	Thermal Acclimation of the Symbiotic Alga <i>Symbiodinium</i> spp. Alleviates Photobleaching under Heat Stress. <i>Plant Physiology</i> , 2012, 161, 477-485.	2.3	51
24	VARIABILITY IN THE PRIMARY SITE OF PHOTOSYNTHETIC DAMAGE IN <i>SYMBIODINIUM</i> SP. (DINOPHYCEAE) EXPOSED TO THERMAL STRESS. <i>Journal of Phycology</i> , 2012, 48, 117-126.	1.0	49
25	Green fluorescence from cnidarian hosts attracts symbiotic algae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2118-2123.	3.3	48
26	Heat Induction of Cyclic Electron Flow around Photosystem I in the Symbiotic Dinoflagellate <i>Symbiodinium</i> . <i>Plant Physiology</i> , 2016, 171, 522-529.	2.3	42
27	Estimation of the steady-state cyclic electron flux around PSI in spinach leaf discs in white light, CO ₂ -enriched air and other varied conditions. <i>Functional Plant Biology</i> , 2013, 40, 1018.	1.1	40
28	Mitochondrial Alternative Pathway-Associated Photoprotection of Photosystem II is Related to the Photorespiratory Pathway. <i>Plant and Cell Physiology</i> , 2016, 57, pcw036.	1.5	40
29	Partially dissecting the steady-state electron fluxes in Photosystem I in wild-type and <i>pgr5</i> and <i>ndh</i> mutants of <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 758.	1.7	34
30	Chlorophyll fluorescence screening of <i>Arabidopsis thaliana</i> for CO ₂ sensitive photorespiration and photoinhibition mutants. <i>Functional Plant Biology</i> , 2009, 36, 867.	1.1	31
31	Chloroplast acquisition without the gene transfer in kleptoplastic sea slugs, <i>Plakobranthus ocellatus</i> . <i>ELife</i> , 2021, 10, .	2.8	29
32	Moonrise timing is key for synchronized spawning in coral <i>Dipsastraea speciosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	28
33	The Tropical Fig <i>Ficus microcarpa</i> L. f. cv. Golden Leaves Lacks Heat-Stable Dehydroascorbate Reductase Activity. <i>Plant and Cell Physiology</i> , 1999, 40, 640-646.	1.5	25
34	The ReFuGe 2020 Consortium using omics approaches to explore the adaptability and resilience of coral holobionts to environmental change. <i>Frontiers in Marine Science</i> , 2015, 2, .	1.2	24
35	High-susceptibility of photosynthesis to photoinhibition in the tropical plant <i>Ficus microcarpa</i> L. f. cv. Golden Leaves. <i>BMC Plant Biology</i> , 2002, 2, 2.	1.6	21
36	Transcriptomic analyses highlight the likely metabolic consequences of colonization of a cnidarian host by native or non-native <i>Symbiodinium</i> species. <i>Biology Open</i> , 2019, 8, .	0.6	19

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37	Novel Characteristics of Photodamage to PSII in a High-Light-Sensitive Symbiodinium Phylotype. <i>Plant and Cell Physiology</i> , 2015, 56, 1162-1171.	1.5	17
38	Overexpression of BUNDLE SHEATH DEFECTIVE 2 improves the efficiency of photosynthesis and growth in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2020, 102, 129-137.	2.8	13
39	Photo-movement of coral larvae influences vertical positioning in the ocean. <i>Coral Reefs</i> , 2021, 40, 1297-1306.	0.9	9
40	Photosystem II recovery in the presence and absence of chloroplast protein repair in the symbionts of corals exposed to bleaching conditions. <i>Coral Reefs</i> , 2014, 33, 1101-1111.	0.9	8
41	Loss of symbiont infectivity following thermal stress can be a factor limiting recovery from bleaching in cnidarians. <i>ISME Journal</i> , 2020, 14, 3149-3152.	4.4	7
42	<i>Arabidopsis</i> BSD2 reveals a novel redox regulation of Rubisco physiology in vivo. <i>Plant Signaling and Behavior</i> , 2020, 15, 1740873.	1.2	7
43	Isolation of uracil auxotroph mutants of coral symbiont alga for symbiosis studies. <i>Scientific Reports</i> , 2018, 8, 3237.	1.6	5
44	Estimation of the Cyclic Electron Flux around Photosystem I in Leaf Discs. , 2017, , 265-275.		0