Atsushi Takabayashi

List of Publications by Year
in descending order

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41 papers	1,974 citations	279798 23 h-index	302126 39 g-index
42 all docs	42 docs citations	42 times ranked	2041 citing authors

#	Article	IF	Citations
1	Chloroplastic NAD(P)H Dehydrogenase in Tobacco Leaves Functions in Alleviation of Oxidative Damage Caused by Temperature Stress Â. Plant Physiology, 2006, 141, 465-474.	4.8	221
2	The role of chloroplastic NAD(P)H dehydrogenase in photoprotection. FEBS Letters, 1999, 457, 5-8.	2.8	210
3	Identification of the 7-Hydroxymethyl Chlorophyll a Reductase of the Chlorophyll Cycle in Arabidopsis Â. Plant Cell, 2011, 23, 3442-3453.	6.6	155
4	Distinct Functions for the Two PsbP-Like Proteins PPL1 and PPL2 in the Chloroplast Thylakoid Lumen of Arabidopsis. Plant Physiology, 2007, 145, 668-679.	4.8	134
5	From The Cover: Differential use of two cyclic electron flows around photosystem I for driving CO2-concentration mechanism in C4 photosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16898-16903.	7.1	132
6	A megacomplex composed of both photosystem reaction centres in higher plants. Nature Communications, 2015, 6, 6675.	12.8	101
7	LIL3, a light-harvesting-like protein, plays an essential role in chlorophyll and tocopherol biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16721-16725.	7.1	98
8	Three novel subunits of Arabidopsis chloroplastic NAD(P)H dehydrogenase identified by bioinformatic and reverse genetic approaches. Plant Journal, 2009, 57, 207-219.	5.7	82
9	Functional dissection of two Arabidopsis PsbO proteins. FEBS Journal, 2005, 272, 2165-2175.	4.7	80
10	Characterization of anArabidopsis thalianamutant with impairedpsbO, one of two genes encoding extrinsic 33-kDa proteins in photosystem II. FEBS Letters, 2002, 523, 138-142.	2.8	74
11	Three PsbQ-Like Proteins are Required for the Function of the Chloroplast NAD(P)H Dehydrogenase Complex in Arabidopsis. Plant and Cell Physiology, 2010, 51, 866-876.	3.1	70
12	NDH-Mediated Cyclic Electron Flow Around Photosystem I is Crucial for C₄Photosynthesis. Plant and Cell Physiology, 2016, 57, 2020-2028.	3.1	53
13	Ribosomal RNA processing and an RNase R family member in chloroplasts of Arabidopsis. Plant Molecular Biology, 2004, 55, 595-606.	3.9	42
14	NDF6: A Thylakoid Protein Specific to Terrestrial Plants is Essential for Activity of Chloroplastic NAD(P)H Dehydrogenase in Arabidopsis. Plant and Cell Physiology, 2008, 49, 1066-1073.	3.1	39
15	Functional Analysis of Light-harvesting-like Protein 3 (LIL3) and Its Light-harvesting Chlorophyll-binding Motif in Arabidopsis. Journal of Biological Chemistry, 2014, 289, 987-999.	3.4	38
16	The Oligomeric States of the Photosystems and the Light-Harvesting Complexes in the Chl b-Less Mutant. Plant and Cell Physiology, 2011, 52, 2103-2114.	3.1	37
17	Evolution of Green Plants Accompanied Changes in Light-Harvesting Systems. Plant and Cell Physiology, 2016, 57, 1231-1243.	3.1	36
18	The PSIâ€“PSII Megacomplex in Green Plants. Plant and Cell Physiology, 2019, 60, 1098-1108.	3.1	34

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19	Accumulation of the components of cyclic electron flow around photosystem I in C4 plants, with respect to the requirements for ATP. Photosynthesis Research, 2016, 129, 261-277.	2.9	31
20	A Novel Nuclear-Encoded Protein, NDH-Dependent Cyclic Electron Flow 5, is Essential for the Accumulation of Chloroplast NAD(P)H Dehydrogenase Complexes. Plant and Cell Physiology, 2008, 50, 383-393.	3.1	30
21	Post-illumination Reduction of the Plastoquinone Pool in Chloroplast Transformants in which Chloroplastic NAD(P)H Dehydrogenase was Inactivated. Bioscience, Biotechnology and Biochemistry, 2002, 66, 2107-2111.	1.3	29
22	Towards artificial methanogenesis: biosynthesis of the [Fe]-hydrogenase cofactor and characterization of the semi-synthetic hydrogenase. Faraday Discussions, 2017, 198, 37-58.	3.2	29
23	Evolutionary Changes in Chlorophyllide a Oxygenase (CAO) Structure Contribute to the Acquisition of a New Light-harvesting Complex in Micromonas*. Journal of Biological Chemistry, 2013, 288, 19330-19341.	3.4	28
24	Protein co-migration database (PCoM -DB) for Arabidopsis thylakoids and Synechocystis cells. SpringerPlus, 2013, 2, 148.	1.2	24
25	Direct interaction with ACR11 is necessary for post-transcriptional control of GLU1-encoded ferredoxin-dependent glutamate synthase in leaves. Scientific Reports, 2016, 6, 29668.	3.3	24
26	Allocation of Absorbed Light Energy in PSII to Thermal Dissipations in the Presence or Absence of PsbS Subunits of Rice. Plant and Cell Physiology, 2011, 52, 1822-1831.	3.1	23
27	Pale-Green Phenotype of atl31 atl6 Double Mutant Leaves Is Caused by Disruption of 5-Aminolevulinic Acid Biosynthesis in Arabidopsis thaliana. PLoS ONE, 2015, 10, e0117662.	2.5	20
28	Direct interaction between KaiA and KaiB revealed by a siteâ€directed spin labeling electron spin resonance analysis. Genes To Cells, 2010, 15, 269-280.	1.2	19
29	PCoM-DB Update: A Protein Co-Migration Database for Photosynthetic Organisms. Plant and Cell Physiology, 2017, 58, pcw219.	3.1	18
30	Deficiency of the Stroma-Lamellar Protein LIL8/PSB33 Affects Energy Transfer Around PSI in Arabidopsis. Plant and Cell Physiology, 2017, 58, 2026-2039.	3.1	16
31	Formation of a PSIâ€“PSII megacomplex containing LHCSR and PsbS in the moss Physcomitrella patens. Journal of Plant Research, 2019, 132, 867-880.	2.4	14
32	Evidence of the supercomplex organization of photosystem II and light-harvesting complexes in Nannochloropsis granulata. Photosynthesis Research, 2018, 136, 49-61.	2.9	13
33	Horizontal Transfer of Promiscuous Activity from Nonphotosynthetic Bacteria Contributed to Evolution of Chlorophyll Degradation Pathway. Molecular Biology and Evolution, 2019, 36, 2830-2841.	8.9	8
34	Substitution of Deoxycholate with the Amphiphilic Polymer Amphipol A8-35 Improves the Stability of Large Protein Complexes during Native Electrophoresis. Plant and Cell Physiology, 2021, 62, 348-355.	3.1	3
35	Complete Chloroplast Genome Sequence of the Early Diverging Green Alga Palmophyllum crassum. Genome Announcements, 2017, 5, .	0.8	2
36	Regulation of excitation energy in Nannochloropsis photosystem II. Photosynthesis Research, 2019, 139, 155-161.	2.9	2

#	Article	IF	Citations
37	Letter to the Editor: Weak-Acidic Clear-Native Polyacrylamide Gel Electrophoresis for the Separation of the Intact Forms of Thylakoid Protein Complexes. Plant and Cell Physiology, 2022, 63, 883-885.	3.1	2
38	Comprehensive detection of protein complexes using blue-native (BN)-PAGE. Denki Eido, 2017, 61, 111-114.	0.0	1
39	Characterization of photosystem II assembly complexes containing ONE-HELIX PROTEIN1 in Arabidopsis thaliana. Journal of Plant Research, 2022, 135, 361.	2.4	1
40	Unique Peripheral Antennas in the Photosystems of the Streptophyte Alga Mesostigma viride. Plant and Cell Physiology, 2021, 62, 436-446.	3.1	0
41	Screening of Novel Subunits of Chloroplastic NAD(P)H Dehydrogenase in Arabidopsis. Advanced Topics in Science and Technology in China, 2013, , 279-281.	0.1	0