Kintake Sonoike

List of Publications by Year
in descending order

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97 papers	4,661 citations	94433 37 h-index	102487 66 g-index
98 all docs	98 docs citations	98 times ranked	3759 citing authors

#	Article	IF	Citations
1	The NAD Kinase Slr0400 Functions as a Growth Repressor in Synechocystis sp. PCC 6803. Plant and Cell Physiology, 2021, 62, 668-677.	3.1	6
2	Dissection of the Mechanisms of Growth Inhibition Resulting from Loss of the PII Protein in the Cyanobacterium Synechococcus elongatus PCC 7942. Plant and Cell Physiology, 2021, 62, 721-731.	3.1	6
3	The circadian rhythm regulator RpaA modulates photosynthetic electron transport and alters the preferable temperature range for growth in a cyanobacterium. FEBS Letters, 2021, 595, 1480-1492.	2.8	2
4	Screening of mutants using chlorophyll fluorescence. Journal of Plant Research, 2021, 134, 653-664.	2.4	13
5	Imaging, screening and remote sensing of photosynthetic activity and stress responses. Journal of Plant Research, 2021, 134, 649-651.	2.4	4
6	Respiration Interacts With Photosynthesis Through the Acceptor Side of Photosystem I, Reflected in the Dark-to-Light Induction Kinetics of Chlorophyll Fluorescence in the Cyanobacterium Synechocystis sp. PCC 6803. Frontiers in Plant Science, 2021, 12, 717968.	3.6	13
7	Investigation of Nostoc sp. HK-01, Cell Survival over Three Years during the Tanpopo Mission. Astrobiology, 2021, 21, 1505-1514.	3.0	0
8	Light dependent accumulation of Î²-carotene enhances photo-acclimation of Euglena gracilis. Journal of Photochemistry and Photobiology B: Biology, 2020, 209, 111950.	3.8	18
9	Morphological and cytological observations of corolla green spots reveal the presence of functional chloroplasts in Japanese gentian. PLoS ONE, 2020, 15, e0237173.	2.5	4
10	Direct injection of pigmentâ€“protein complexes and membrane fragments suspended in water from phototrophs to C18 HPLC. Photosynthesis Research, 2020, 144, 101-107.	2.9	2
11	Guard cell photosynthesis is crucial in abscisic acidâ€induced stomatal closure. Plant Direct, 2019, 3, e00137.	1.9	20
12	Crassulacean Acid Metabolism Induction in Mesembryanthemum crystallinum Can Be Estimated by Non-Photochemical Quenching upon Actinic Illumination During the Dark Period. Plant and Cell Physiology, 2018, 59, 1966-1975.	3.1	16
13	Evaluation of the Condition of Respiration and Photosynthesis by Measuring Chlorophyll Fluorescence in Cyanobacteria. Bio-protocol, 2018, 8, e2834.	0.4	1
14	Characterization of the influence of chlororespiration on the regulation of photosynthesis in the glaucophyte Cyanophora paradoxa. Scientific Reports, 2017, 7, 46100.	3.3	17
15	Estimation of photosynthesis in cyanobacteria by pulse-amplitude modulation chlorophyll fluorescence: problems and solutions. Photosynthesis Research, 2017, 133, 63-73.	2.9	59
16	Significance of structural variation in thylakoid membranes in maintaining functional photosystems during reproductive growth. Physiologia Plantarum, 2017, 160, 111-123.	5.2	9
17	Relationship Between Photochemical Quenching and Non-Photochemical Quenching in Six Species of Cyanobacteria Reveals Species Difference in Redox State and Species Commonality in Energy Dissipation. Plant and Cell Physiology, 2016, 57, pcv185.	3.1	41
18	Effects of Bleaching by Nitrogen Deficiency on the Quantum Yield of Photosystem II inSynechocystissp. PCC 6803 Revealed by Chl Fluorescence Measurements. Plant and Cell Physiology, 2016, 57, 558-567.	3.1	26

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19	Zeaxanthin and Echinenone Protect the Repair of Photosystem II from Inhibition by Singlet Oxygen in Synechocystis sp. PCC 6803. Plant and Cell Physiology, 2015, 56, 906-916.	3.1	61
20	Dissection of respiration and photosynthesis in the cyanobacterium Synechocystis sp. PCC6803 by the analysis of chlorophyll fluorescence. Journal of Photochemistry and Photobiology B: Biology, 2015, 144, 61-67.	3.8	17
21	Analysis of spontaneous suppressor mutants from the photomixotrophically grown pmgA-disrupted mutant in the cyanobacterium Synechocystis sp. PCC 6803. Photosynthesis Research, 2015, 126, 465-475.	2.9	3
22	The initiation of nocturnal dormancy in Synechococcus as an active process. BMC Biology, 2015, 13, 36.	3.8	15
23	The Heat Tolerance of Dry Colonies of a Terrestrial Cyanobacterium, <i>Nostoc</i> sp. HK-01. Uchu Seibutsu Kagaku, 2015, 29, 12-18.	0.3	10
24	Fe deficiency induces phosphorylation and translocation of Lhcb1 in barley thylakoid membranes. FEBS Letters, 2014, 588, 2042-2048.	2.8	20
25	Organization and Assembly of Photosystem I. Advances in Photosynthesis and Respiration, 2013, , 101-116.	1.0	2
26	Role of galactolipid biosynthesis in coordinated development of photosynthetic complexes and thylakoid membranes during chloroplast biogenesis in <scp>A</scp>rabidopsis. Plant Journal, 2013, 73, 250-261.	5.7	76
27	Disruption of the ndhF1 Gene Affects Chl Fluorescence through State Transition in the Cyanobacterium Synechocystis sp. PCC 6803, Resulting in Apparent High Efficiency of Photosynthesis. Plant and Cell Physiology, 2013, 54, 1164-1171.	3.1	39
28	Photoinhibition of photosystem I. Physiologia Plantarum, 2011, 142, 56-64.	5.2	410
29	Functional Analysis of Two Isoforms of Leaf-Type Ferredoxin-NADP+-Oxidoreductase in Rice Using the Heterologous Expression System of Arabidopsis Â Â. Plant Physiology, 2011, 157, 96-108.	4.8	28
30	Remodeling of the Major Light-Harvesting Antenna Protein of PSII Protects the Young Leaves of Barley (Hordeum vulgare L.) from Photoinhibition under Prolonged Iron Deficiency. Plant and Cell Physiology, 2010, 51, 2013-2030.	3.1	40
31	Orthogenomics of Photosynthetic Organisms: Bioinformatic and Experimental Analysis of Chloroplast Proteins of Endosymbiont Origin in Arabidopsis and Their Counterparts in Synechocystis. Plant and Cell Physiology, 2009, 50, 773-788.	3.1	34
32	Mechanism of downregulation of photosystem I content under high-light conditions in the cyanobacterium Synechocystis sp. PCC 6803. Microbiology (United Kingdom), 2009, 155, 989-996.	1.8	34
33	Quantitative analysis of the relationship between induction kinetics of chlorophyll fluorescence and function of genes in the cyanobacterium Synechocystis sp. PCC 6803. Photosynthesis Research, 2009, 101, 47-58.	2.9	8
34	A T-DNA insertion mutant of AtHMA1 gene encoding a Cu transporting ATPase in Arabidopsis thaliana has a defect in the waterâ€“water cycle of photosynthesis. Journal of Photochemistry and Photobiology B: Biology, 2009, 94, 205-213.	3.8	15
35	sll1961 is a novel regulator of phycobilisome degradation during nitrogen starvation in the cyanobacterium Synechocystis sp. PCC 6803. FEBS Letters, 2008, 582, 1093-1096.	2.8	15
36	Quantitative Analysis of Chlorophyll Fluorescence Induction Kinetics of the Cyanobacterium Synechocystis sp. PCC6803. , 2008, , 1573-1576.		0

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37	Pacific Ocean and Japan Sea ecotypes of Japanese beech (Fagus crenata) differ in photosystem responses to continuous high light. Tree Physiology, 2007, 27, 961-968.	3.1	11
38	Large-Scale Analysis of Chlorophyll Fluorescence Kinetics in Synechocystis sp. PCC 6803: Identification of the Factors Involved in the Modulation of Photosystem Stoichiometry. Plant and Cell Physiology, 2007, 48, 451-458.	3.1	43
39	Expression of the Algal Cytochrome c6 Gene in Arabidopsis Enhances Photosynthesis and Growth. Plant and Cell Physiology, 2007, 48, 948-957.	3.1	92
40	The plastid sigma factor SIG1 maintains photosystem I activity via regulated expression of the psaA operon in rice chloroplasts. Plant Journal, 2007, 52, 124-132.	5.7	32
41	Chloroplast NAD Kinase is Essential for Energy Transduction Through the Xanthophyll Cycle in Photosynthesis. Plant and Cell Physiology, 2006, 47, 1678-1682.	3.1	68
42	Photoinhibition and Protection of Photosystem I. , 2006, , 657-668.		24
43	The Mutant of sll1961, Which Encodes a Putative Transcriptional Regulator, Has a Defect in Regulation of Photosystem Stoichiometry in the Cyanobacterium Synechocystis sp. PCC 6803. Plant Physiology, 2005, 139, 408-416.	4.8	43
44	PsaK2 Subunit in Photosystem I Is Involved in State Transition under High Light Condition in the Cyanobacterium Synechocystis sp. PCC 6803. Journal of Biological Chemistry, 2005, 280, 22191-22197.	3.4	48
45	High-dimensional and large-scale phenotyping of yeast mutants. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 19015-19020.	7.1	276
46	Mass identification of chloroplast proteins of endosymbiont origin by phylogenetic profiling based on organism-optimized homologous protein groups. Genome Informatics, 2005, 16, 56-68.	0.4	30
47	A cyanobacterial gene encoding an ortholog of Pirin is induced under stress conditions. FEBS Letters, 2004, 574, 101-105.	2.8	26
48	Involvement of sulfoquinovosyl diacylglycerol in the structural integrity and heat-tolerance of photosystemÂII. Planta, 2003, 217, 245-251.	3.2	74
49	Decrease in the efficiency of the electron donation to tyrosine Z of photosystem II in an SQDG-deficient mutant ofChlamydomonas. FEBS Letters, 2003, 553, 109-112.	2.8	62
50	Over-reduced states of the Mn-cluster in cucumber leaves induced by dark-chilling treatment. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1604, 151-158.	1.0	27
51	DNA Microarray Analysis of Redox-Responsive Genes in the Genome of the Cyanobacterium Synechocystis sp. Strain PCC 6803. Journal of Bacteriology, 2003, 185, 1719-1725.	2.2	153
52	Binding and Functional Properties of the Extrinsic Proteins in Oxygen-Evolving Photosystem II Particle from a Green Alga, Chlamydomonas reinhardtii having His-tagged CP47. Plant and Cell Physiology, 2003, 44, 76-84.	3.1	55
53	Irreversible damage to photosystem I by chilling in the light: cause of the degradation of chlorophyll after returning to normal growth temperature. Planta, 2002, 215, 541-548.	3.2	196
54	Role of sulfoquinovosyl diacylglycerol for the maintenance of photosystemâ€ƒII inChlamydomonas reinhardtii. FEBS Journal, 2002, 269, 2353-2358.	0.2	70

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55	Regulation, Inhibition and Protection of Photosystem I. Advances in Photosynthesis and Respiration, 2001, , 507-531.	1.0	25
56	Physiological Significance of the Regulation of Photosystem Stoichiometry upon High Light Acclimation of Synechocystis sp. PCC 6803. Plant and Cell Physiology, 2001, 42, 379-384.	3.1	81
57	The different roles of chilling temperatures in the photoinhibition of photosystem I and photosystem II. Journal of Photochemistry and Photobiology B: Biology, 1999, 48, 136-141.	3.8	78
58	Role of pyrenoids in the CO 2 -concentrating mechanism: comparative morphology, physiology and molecular phylogenetic analysis of closely related strains of Chlamydomonas and Chloromonas (Volvocales). Planta, 1999, 208, 365-372.	3.2	63
59	Presence of the CO 2 -concentrating mechanism in some species of the pyrenoid-less free-living algal genus Chloromonas (Volvocales, Chlorophyta). Planta, 1998, 204, 269-276.	3.2	59
60	Various aspects of inhibition of photosynthesis under light/chilling stress: â€œPhotoinhibition at chilling temperaturesâ€•versus â€œchilling damage in the lightâ€• Journal of Plant Research, 1998, 111, 121-129.	2.4	89
61	A Novel Gene, pmgA, Specifically Regulates Photosystem Stoichiometry in the CyanobacteriumSynechocystis Species PCC 6803 in Response to High Light1. Plant Physiology, 1998, 117, 1205-1216.	4.8	111
62	Photoinhibition of Photosystem I in Chilling Sensitive Plants Determined in vivo and in vitro. , 1998, , 2217-2220.		8
63	Photoinhibition of Photosynthesis during Rain Treatment: Identification of the Intersystem Electron-Transfer Chain as the Site of Inhibition. Plant and Cell Physiology, 1997, 38, 168-172.	3.1	7
64	The Inhibition of Photosynthesis after Exposure of Bean Leaves to Various Low Levels of CO2. Plant and Cell Physiology, 1997, 38, 619-624.	3.1	5
65	Title is missing!. Photosynthesis Research, 1997, 53, 55-63.	2.9	92
66	Photosynthetic properties of leaves of Eupatorium makinoi infected by a geminivirus. Photosynthesis Research, 1997, 53, 253-261.	2.9	41
67	Degradation of psaB gene product, the reaction center subunit of photosystem I, is caused during photoinhibition of photosystem I: possible involvement of active oxygen species. Plant Science, 1996, 115, 157-164.	3.6	122
68	Photosynthetic characteristics of a mutant of Chlamydomonas reinhardtii impaired in fatty acid desaturation in chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1274, 112-118.	1.0	11
69	Acclimation of Respiratory Properties of Leaves of Spinacia oleracea L., a Sun Species, and of Alocasia macrorrhiza (L.) G. Don., a Shade Species, to Changes in Growth Irradiance. Plant and Cell Physiology, 1996, 37, 377-384.	3.1	50
70	Stoichiometries of Photosystem I and Photosystem II in Rice Mutants Differently Deficient in Chlorophyll b. Plant and Cell Physiology, 1996, 37, 299-306.	3.1	24
71	Photoinhibition of Photosystem I: Its Physiological Significance in the Chilling Sensitivity of Plants. Plant and Cell Physiology, 1996, 37, 239-247.	3.1	238
72	Contribution of lowered unsaturation levels of chloroplast lipids to high temperature tolerance of photosynthesis in Chlamydomonas reinhardtii. Journal of Photochemistry and Photobiology B: Biology, 1996, 36, 333-337.	3.8	38

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73	Selective Photoinhibition of Photosystem I in Isolated Thylakoid Membranes from Cucumber and Spinach. Plant and Cell Physiology, 1995, 36, 825-830.	3.1	97
74	Impaired Photosystem II in a Mutant of Chlamydomonas Reinhardtii Defective in Sulfoquinovosyl Diacylglycerol. FEBS Journal, 1995, 234, 16-23.	0.2	103
75	Destruction of photosystem I iron-sulfur centers in leaves of Cucumis sativus L. by weak illumination at chilling temperatures. FEBS Letters, 1995, 362, 235-238.	2.8	157
76	The Loss of RuBPCase by 24-Hour Treatment of â€œRainâ€•in Light. , 1995, , 3581-3584.		0
77	Chilling Sensitive Steps in Leaves of Phaseolus Vulgaris L. Examination of the Effects of Growth Irradiances on PSI Photoinhibition. , 1995, , 3817-3820.		1
78	The site of photoinhibition in leaves of Cucumis sativus L. at low temperatures is photosystem I, not photosystem II. Planta, 1994, 193, 300.	3.2	250
79	Mechanism of photosystem-I photoinhibition in leaves of Cucumis sativus L.. Planta, 1994, 194, 287.	3.2	33
80	Mechanism of photosystem-I photoinhibition in leaves ofCucumis sativus L.. Planta, 1994, 194, 287-293.	3.2	167
81	The PsaC Protein Is Necessary for the Stable Association of the PsaD, PsaE, and PsaL Proteins in the Photosystem I Complex: Analysis of a Cyanobacterial Mutant Strain. Archives of Biochemistry and Biophysics, 1994, 315, 68-73.	3.0	31
82	Nucleotide sequences of the psaA and the psaB genes encoding the reaction center proteins of Photosystem I in Anabaena variabilis ATCC 29413. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1185, 247-251.	1.0	2
83	Chemical environment heterogeneity around the two chlorophyll aâ€² molecules in photosystem I. Journal of Photochemistry and Photobiology B: Biology, 1993, 20, 139-143.	3.8	5
84	Thermoluminescence emission at liquid helium temperatures from photosynthetic apparatus and purified pigments. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1141, 18-22.	1.0	8
85	Small subunits of Photosystem I reaction center complexes from Synechococcus elongatus. I. Is the psaF gene product required for oxidation of cytochrome c-553?. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1141, 45-51.	1.0	52
86	Small subunits of Photosystem I reaction center complexes from Synechococcus elongatus. II. The psaE gene product has a role to promote interaction between the terminal electron acceptor and ferredoxin. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1141, 52-57.	1.0	49
87	A Novel 3.5 kDa Protein Component of Cyanobacterial Photosystem I Complexes. Plant and Cell Physiology, 1992, , .	3.1	0
88	Presence of an N-terminal presequence in the PsaI protein of the Photosystem I complex in the filamentous cyanobacterium Anabaena variabilis ATCC 29413. Plant Molecular Biology, 1992, 20, 987-990.	3.9	10
89	An application of a two-dimensional photoncounter for the determination of emission spectra of thermoluminescence from photosynthetic systems. Journal of Luminescence, 1992, 51, 129-137.	3.1	3
90	The emission spectra of thermoluminescence from the photosynthetic apparatus. Biochimica Et Biophysica Acta - Bioenergetics, 1991, 1058, 121-130.	1.0	16

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91	Total immobilization of the extrinsic 33 kDa protein in spinach Photosystem II membrane preparations. Protein stoichiometry and stabilization of oxygen evolution. Biochimica Et Biophysica Acta - Bioenergetics, 1991, 1060, 224-232.	1.0	67
92	Variation and Estimation of the Differential Absorption Coefficient of P-700 in Spinach Photosystem I Preparations. Plant and Cell Physiology, 1990, , .	3.1	7
93	Variations of the Differential Extinction Coefficient of P-700 and Re-Estimation of Stoichiometry of Constituents in Photosystem I Reaction Center Complexes from Synechococcus elongatus. , 1990, , 1555-1558.		0
94	Simple estimation of the differential absorption coefficient of P-700 in detergent-treated preparations. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 976, 210-213.	1.0	15
95	Effects of sodium dodecyl sulfate and methyl viologen on the differential extinction coefficient of P-700 â€" a band shift of chlorophyll a associated with oxidation of P-700. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 935, 61-71.	1.0	21
96	Isolation of an intrinsic antenna chlorophyll a-protein from the photosystem I reaction center complex of the thermophilic cyanobacterium Synechococcus sp. Archives of Biochemistry and Biophysics, 1986, 244, 254-260.	3.0	10
97	Dual Redox Regulation of DNA Binding Activity of the Response Regulator RpaB in the Cyanobacterium Synechocystis sp. PCC 6803. Plant and Cell Physiology, 0, , .	3.1	1