

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	Photoinhibition of photosystem I. <i>Physiologia Plantarum</i> , 2011, 142, 56-64.	5.2	410
2	High-dimensional and large-scale phenotyping of yeast mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 19015-19020.	7.1	276
3	The site of photoinhibition in leaves of <i>Cucumis sativus</i> L. at low temperatures is photosystem I, not photosystem II. <i>Planta</i> , 1994, 193, 300.	3.2	250
4	Photoinhibition of Photosystem I: Its Physiological Significance in the Chilling Sensitivity of Plants. <i>Plant and Cell Physiology</i> , 1996, 37, 239-247.	3.1	238
5	Irreversible damage to photosystem I by chilling in the light: cause of the degradation of chlorophyll after returning to normal growth temperature. <i>Planta</i> , 2002, 215, 541-548.	3.2	196
6	Mechanism of photosystem-I photoinhibition in leaves of <i>Cucumis sativus</i> L.. <i>Planta</i> , 1994, 194, 287-293.	3.2	167
7	Destruction of photosystem I iron-sulfur centers in leaves of <i>Cucumis sativus</i> L. by weak illumination at chilling temperatures. <i>FEBS Letters</i> , 1995, 362, 235-238.	2.8	157
8	DNA Microarray Analysis of Redox-Responsive Genes in the Genome of the Cyanobacterium <i>Synechocystis</i> sp. Strain PCC 6803. <i>Journal of Bacteriology</i> , 2003, 185, 1719-1725.	2.2	153
9	Degradation of <i>psaB</i> gene product, the reaction center subunit of photosystem I, is caused during photoinhibition of photosystem I: possible involvement of active oxygen species. <i>Plant Science</i> , 1996, 115, 157-164.	3.6	122
10	A Novel Gene, <i>pmgA</i> , Specifically Regulates Photosystem Stoichiometry in the Cyanobacterium <i>Synechocystis</i> Species PCC 6803 in Response to High Light1. <i>Plant Physiology</i> , 1998, 117, 1205-1216.	4.8	111
11	Impaired Photosystem II in a Mutant of <i>Chlamydomonas Reinhardtii</i> Defective in Sulfoquinovosyl Diacylglycerol. <i>FEBS Journal</i> , 1995, 234, 16-23.	0.2	103
12	Selective Photoinhibition of Photosystem I in Isolated Thylakoid Membranes from Cucumber and Spinach. <i>Plant and Cell Physiology</i> , 1995, 36, 825-830.	3.1	97
13	Title is missing!. <i>Photosynthesis Research</i> , 1997, 53, 55-63.	2.9	92
14	Expression of the Algal Cytochrome <i>c6</i> Gene in <i>Arabidopsis</i> Enhances Photosynthesis and Growth. <i>Plant and Cell Physiology</i> , 2007, 48, 948-957.	3.1	92
15	Various aspects of inhibition of photosynthesis under light/chilling stress: "Photoinhibition at chilling temperatures" versus "chilling damage in the light". <i>Journal of Plant Research</i> , 1998, 111, 121-129.	2.4	89
16	Physiological Significance of the Regulation of Photosystem Stoichiometry upon High Light Acclimation of <i>Synechocystis</i> sp. PCC 6803. <i>Plant and Cell Physiology</i> , 2001, 42, 379-384.	3.1	81
17	The different roles of chilling temperatures in the photoinhibition of photosystem I and photosystem II. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1999, 48, 136-141.	3.8	78
18	Role of galactolipid biosynthesis in coordinated development of photosynthetic complexes and thylakoid membranes during chloroplast biogenesis in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2013, 73, 250-261.	5.7	76

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19	Involvement of sulfoquinovosyl diacylglycerol in the structural integrity and heat-tolerance of photosystem II. <i>Planta</i> , 2003, 217, 245-251.	3.2	74
20	Role of sulfoquinovosyl diacylglycerol for the maintenance of photosystem II in <i>Chlamydomonas reinhardtii</i> . <i>FEBS Journal</i> , 2002, 269, 2353-2358.	0.2	70
21	Chloroplast NAD Kinase is Essential for Energy Transduction Through the Xanthophyll Cycle in Photosynthesis. <i>Plant and Cell Physiology</i> , 2006, 47, 1678-1682.	3.1	68
22	Total immobilization of the extrinsic 33 kDa protein in spinach Photosystem II membrane preparations. Protein stoichiometry and stabilization of oxygen evolution. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1991, 1060, 224-232.	1.0	67
23	Role of pyrenoids in the CO ₂ -concentrating mechanism: comparative morphology, physiology and molecular phylogenetic analysis of closely related strains of <i>Chlamydomonas</i> and <i>Chloromonas</i> (Volvocales). <i>Planta</i> , 1999, 208, 365-372.	3.2	63
24	Decrease in the efficiency of the electron donation to tyrosine Z of photosystem II in an SQDG-deficient mutant of <i>Chlamydomonas</i> . <i>FEBS Letters</i> , 2003, 553, 109-112.	2.8	62
25	Zeaxanthin and Echinenone Protect the Repair of Photosystem II from Inhibition by Singlet Oxygen in <i>Synechocystis</i> sp. PCC 6803. <i>Plant and Cell Physiology</i> , 2015, 56, 906-916.	3.1	61
26	Presence of the CO ₂ -concentrating mechanism in some species of the pyrenoid-less free-living algal genus <i>Chloromonas</i> (Volvocales, Chlorophyta). <i>Planta</i> , 1998, 204, 269-276.	3.2	59
27	Estimation of photosynthesis in cyanobacteria by pulse-amplitude modulation chlorophyll fluorescence: problems and solutions. <i>Photosynthesis Research</i> , 2017, 133, 63-73.	2.9	59
28	Binding and Functional Properties of the Extrinsic Proteins in Oxygen-Evolving Photosystem II Particle from a Green Alga, <i>Chlamydomonas reinhardtii</i> having His-tagged CP47. <i>Plant and Cell Physiology</i> , 2003, 44, 76-84.	3.1	55
29	Small subunits of Photosystem I reaction center complexes from <i>Synechococcus elongatus</i> . I. Is the <i>psaF</i> gene product required for oxidation of cytochrome <i>c-553</i> ?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1141, 45-51.	1.0	52
30	Acclimation of Respiratory Properties of Leaves of <i>Spinacia oleracea</i> L., a Sun Species, and of <i>Alocasia macrorrhiza</i> (L.) G. Don., a Shade Species, to Changes in Growth Irradiance. <i>Plant and Cell Physiology</i> , 1996, 37, 377-384.	3.1	50
31	Small subunits of Photosystem I reaction center complexes from <i>Synechococcus elongatus</i> . II. The <i>psaE</i> gene product has a role to promote interaction between the terminal electron acceptor and ferredoxin. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1141, 52-57.	1.0	49
32	<i>PsaK2</i> Subunit in Photosystem I Is Involved in State Transition under High Light Condition in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Biological Chemistry</i> , 2005, 280, 22191-22197.	3.4	48
33	The Mutant of <i>sll1961</i> , Which Encodes a Putative Transcriptional Regulator, Has a Defect in Regulation of Photosystem Stoichiometry in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 2005, 139, 408-416.	4.8	43
34	Large-Scale Analysis of Chlorophyll Fluorescence Kinetics in <i>Synechocystis</i> sp. PCC 6803: Identification of the Factors Involved in the Modulation of Photosystem Stoichiometry. <i>Plant and Cell Physiology</i> , 2007, 48, 451-458.	3.1	43
35	Photosynthetic properties of leaves of <i>Eupatorium makinoi</i> infected by a geminivirus. <i>Photosynthesis Research</i> , 1997, 53, 253-261.	2.9	41
36	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. <i>Plant and Cell Physiology</i> , 2016, 57, pcv185.	3.1	41

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37	Remodeling of the Major Light-Harvesting Antenna Protein of PSII Protects the Young Leaves of Barley (<i>Hordeum vulgare</i> L.) from Photoinhibition under Prolonged Iron Deficiency. <i>Plant and Cell Physiology</i> , 2010, 51, 2013-2030.	3.1	40
38	Disruption of the <i>ndhF1</i> Gene Affects Chl Fluorescence through State Transition in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803, Resulting in Apparent High Efficiency of Photosynthesis. <i>Plant and Cell Physiology</i> , 2013, 54, 1164-1171.	3.1	39
39	Contribution of lowered unsaturation levels of chloroplast lipids to high temperature tolerance of photosynthesis in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1996, 36, 333-337.	3.8	38
40	Orthogenomics of Photosynthetic Organisms: Bioinformatic and Experimental Analysis of Chloroplast Proteins of Endosymbiont Origin in <i>Arabidopsis</i> and Their Counterparts in <i>Synechocystis</i> . <i>Plant and Cell Physiology</i> , 2009, 50, 773-788.	3.1	34
41	Mechanism of downregulation of photosystem I content under high-light conditions in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Microbiology (United Kingdom)</i> , 2009, 155, 989-996.	1.8	34
42	Mechanism of photosystem-I photoinhibition in leaves of <i>Cucumis sativus</i> L.. <i>Planta</i> , 1994, 194, 287.	3.2	33
43	The plastid sigma factor SIG1 maintains photosystem I activity via regulated expression of the <i>psaA</i> operon in rice chloroplasts. <i>Plant Journal</i> , 2007, 52, 124-132.	5.7	32
44	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. <i>Archives of Biochemistry and Biophysics</i> , 1994, 315, 68-73.	3.0	31
45	Mass identification of chloroplast proteins of endosymbiont origin by phylogenetic profiling based on organism-optimized homologous protein groups. <i>Genome Informatics</i> , 2005, 16, 56-68.	0.4	30
46	Functional Analysis of Two Isoforms of Leaf-Type Ferredoxin-NADP ⁺ -Oxidoreductase in Rice Using the Heterologous Expression System of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 157, 96-108.	4.8	28
47	Over-reduced states of the Mn-cluster in cucumber leaves induced by dark-chilling treatment. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003, 1604, 151-158.	1.0	27
48	A cyanobacterial gene encoding an ortholog of Pirin is induced under stress conditions. <i>FEBS Letters</i> , 2004, 574, 101-105.	2.8	26
49	Effects of Bleaching by Nitrogen Deficiency on the Quantum Yield of Photosystem II in <i>Synechocystis</i> sp. PCC 6803 Revealed by Chl Fluorescence Measurements. <i>Plant and Cell Physiology</i> , 2016, 57, 558-567.	3.1	26
50	Regulation, Inhibition and Protection of Photosystem I. <i>Advances in Photosynthesis and Respiration</i> , 2001, , 507-531.	1.0	25
51	Stoichiometries of Photosystem I and Photosystem II in Rice Mutants Differently Deficient in Chlorophyll b. <i>Plant and Cell Physiology</i> , 1996, 37, 299-306.	3.1	24
52	Photoinhibition and Protection of Photosystem I. , 2006, , 657-668.		24
53	Effects of sodium dodecyl sulfate and methyl viologen on the differential extinction coefficient of P-700 "a" band shift of chlorophyll a associated with oxidation of P-700. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988, 935, 61-71.	1.0	21
54	Fe deficiency induces phosphorylation and translocation of Lhcb1 in barley thylakoid membranes. <i>FEBS Letters</i> , 2014, 588, 2042-2048.	2.8	20

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55	Guard cell photosynthesis is crucial in abscisic acid-induced stomatal closure. <i>Plant Direct</i> , 2019, 3, e00137.	1.9	20
56	Light dependent accumulation of β -carotene enhances photo-acclimation of <i>Euglena gracilis</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 209, 111950.	3.8	18
57	Dissection of respiration and photosynthesis in the cyanobacterium <i>Synechocystis</i> sp. PCC6803 by the analysis of chlorophyll fluorescence. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 144, 61-67.	3.8	17
58	Characterization of the influence of chlororespiration on the regulation of photosynthesis in the glaucophyte <i>Cyanophora paradoxa</i> . <i>Scientific Reports</i> , 2017, 7, 46100.	3.3	17
59	The emission spectra of thermoluminescence from the photosynthetic apparatus. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1991, 1058, 121-130.	1.0	16
60	Crassulacean Acid Metabolism Induction in <i>Mesembryanthemum crystallinum</i> Can Be Estimated by Non-Photochemical Quenching upon Actinic Illumination During the Dark Period. <i>Plant and Cell Physiology</i> , 2018, 59, 1966-1975.	3.1	16
61	Simple estimation of the differential absorption coefficient of P-700 in detergent-treated preparations. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1989, 976, 210-213.	1.0	15
62	sll1961 is a novel regulator of phycobilisome degradation during nitrogen starvation in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>FEBS Letters</i> , 2008, 582, 1093-1096.	2.8	15
63	A T-DNA insertion mutant of <i>AtHMA1</i> gene encoding a Cu transporting ATPase in <i>Arabidopsis thaliana</i> has a defect in the water-water cycle of photosynthesis. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2009, 94, 205-213.	3.8	15
64	The initiation of nocturnal dormancy in <i>Synechococcus</i> as an active process. <i>BMC Biology</i> , 2015, 13, 36.	3.8	15
65	Screening of mutants using chlorophyll fluorescence. <i>Journal of Plant Research</i> , 2021, 134, 653-664.	2.4	13
66	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 <i>Synechocystis</i> sp. PCC 6803. <i>Frontiers in Plant Science</i> , 2021, 12, 717968.	3.6	13
67	Photosynthetic characteristics of a mutant of <i>Chlamydomonas reinhardtii</i> impaired in fatty acid desaturation in chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1996, 1274, 112-118.	1.0	11
68	Pacific Ocean and Japan Sea ecotypes of Japanese beech (<i>Fagus crenata</i>) differ in photosystem responses to continuous high light. <i>Tree Physiology</i> , 2007, 27, 961-968.	3.1	11
69	Isolation of an intrinsic antenna chlorophyll a-protein from the photosystem I reaction center complex of the thermophilic cyanobacterium <i>Synechococcus</i> sp. <i>Archives of Biochemistry and Biophysics</i> , 1986, 244, 254-260.	3.0	10
70	Presence of an N-terminal presequence in the PsaL protein of the Photosystem I complex in the filamentous cyanobacterium <i>Anabaena variabilis</i> ATCC 29413. <i>Plant Molecular Biology</i> , 1992, 20, 987-990.	3.9	10
71	The Heat Tolerance of Dry Colonies of a Terrestrial Cyanobacterium, <i>Nostoc</i> sp. HK-01. <i>Uchu Seibutsu Kagaku</i> , 2015, 29, 12-18.	0.3	10
72	Significance of structural variation in thylakoid membranes in maintaining functional photosystems during reproductive growth. <i>Physiologia Plantarum</i> , 2017, 160, 111-123.	5.2	9

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73	Thermoluminescence emission at liquid helium temperatures from photosynthetic apparatus and purified pigments. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1141, 18-22.	1.0	8
74	Quantitative analysis of the relationship between induction kinetics of chlorophyll fluorescence and function of genes in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Photosynthesis Research</i> , 2009, 101, 47-58.	2.9	8
75	Photoinhibition of Photosystem I in Chilling Sensitive Plants Determined in vivo and in vitro. , 1998, , 2217-2220.		8
76	Variation and Estimation of the Differential Absorption Coefficient of P-700 in Spinach Photosystem I Preparations. <i>Plant and Cell Physiology</i> , 1990, , .	3.1	7
77	Photoinhibition of Photosynthesis during Rain Treatment: Identification of the Intersystem Electron-Transfer Chain as the Site of Inhibition. <i>Plant and Cell Physiology</i> , 1997, 38, 168-172.	3.1	7
78	The NAD Kinase Slr0400 Functions as a Growth Repressor in <i>Synechocystis</i> sp. PCC 6803. <i>Plant and Cell Physiology</i> , 2021, 62, 668-677.	3.1	6
79	Dissection of the Mechanisms of Growth Inhibition Resulting from Loss of the PII Protein in the Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Plant and Cell Physiology</i> , 2021, 62, 721-731.	3.1	6
80	Chemical environment heterogeneity around the two chlorophyll $a\alpha^2$ molecules in photosystem I. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1993, 20, 139-143.	3.8	5
81	The Inhibition of Photosynthesis after Exposure of Bean Leaves to Various Low Levels of CO ₂ . <i>Plant and Cell Physiology</i> , 1997, 38, 619-624.	3.1	5
82	Morphological and cytological observations of corolla green spots reveal the presence of functional chloroplasts in Japanese gentian. <i>PLoS ONE</i> , 2020, 15, e0237173.	2.5	4
83	Imaging, screening and remote sensing of photosynthetic activity and stress responses. <i>Journal of Plant Research</i> , 2021, 134, 649-651.	2.4	4
84	An application of a two-dimensional photoncounter for the determination of emission spectra of thermoluminescence from photosynthetic systems. <i>Journal of Luminescence</i> , 1992, 51, 129-137.	3.1	3
85	Analysis of spontaneous suppressor mutants from the photomixotrophically grown pmgA-disrupted mutant in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Photosynthesis Research</i> , 2015, 126, 465-475.	2.9	3
86	Nucleotide sequences of the psaA and the psaB genes encoding the reaction center proteins of Photosystem I in <i>Anabaena variabilis</i> ATCC 29413. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994, 1185, 247-251.	1.0	2
87	Organization and Assembly of Photosystem I. <i>Advances in Photosynthesis and Respiration</i> , 2013, , 101-116.	1.0	2
88	Direct injection of pigment-protein complexes and membrane fragments suspended in water from phototrophs to C18 HPLC. <i>Photosynthesis Research</i> , 2020, 144, 101-107.	2.9	2
89	The circadian rhythm regulator RpaA modulates photosynthetic electron transport and alters the preferable temperature range for growth in a cyanobacterium. <i>FEBS Letters</i> , 2021, 595, 1480-1492.	2.8	2
90	Chilling Sensitive Steps in Leaves of <i>Phaseolus Vulgaris</i> L. Examination of the Effects of Growth Irradiances on PSI Photoinhibition. , 1995, , 3817-3820.		1

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91	Evaluation of the Condition of Respiration and Photosynthesis by Measuring Chlorophyll Fluorescence in Cyanobacteria. <i>Bio-protocol</i> , 2018, 8, e2834.	0.4	1
92	Dual Redox Regulation of DNA Binding Activity of the Response Regulator RpaB in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Plant and Cell Physiology</i> , 0, , .	3.1	1
93	A Novel 3.5 kDa Protein Component of Cyanobacterial Photosystem I Complexes. <i>Plant and Cell Physiology</i> , 1992, , .	3.1	0
94	Quantitative Analysis of Chlorophyll Fluorescence Induction Kinetics of the Cyanobacterium <i>Synechocystis</i> sp. PCC6803. , 2008, , 1573-1576.		0
95	Variations of the Differential Extinction Coefficient of P-700 and Re-Estimation of Stoichiometry of Constituents in Photosystem I Reaction Center Complexes from <i>Synechococcus elongatus</i> . , 1990, , 1555-1558.		0
96	The Loss of RuBPCase by 24-Hour Treatment of "Rain" in Light. , 1995, , 3581-3584.		0
97	Investigation of <i>Nostoc</i> sp. HK-01, Cell Survival over Three Years during the Tanpopo Mission. <i>Astrobiology</i> , 2021, 21, 1505-1514.	3.0	0