Norio Murata

List of Publications by Year
in descending order

288	33,054	2101 100	4548 171
papers	citations	h-index	g-index

293	293	293	15865
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoinhibition of photosystem II under environmental stress. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 414-421.	1.0	1,231
2	How do environmental stresses accelerate photoinhibition?. Trends in Plant Science, 2008, 13, 178-182.	8.8	935
3	Enhancement of tolerance of abiotic stress by metabolic engineering of betaines and other compatible solutes. Current Opinion in Plant Biology, 2002, 5, 250-257.	7.1	802
4	Membrane fluidity and its roles in the perception of environmental signals. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1666, 142-157.	2.6	761
5	The role of glycine betaine in the protection of plants from stress: clues from transgenic plants. Plant, Cell and Environment, 2002, 25, 163-171.	5.7	644
6	A new paradigm for the action of reactive oxygen species in the photoinhibition of photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 742-749.	1.0	596
7	Glycinebetaine protects plants against abiotic stress: mechanisms and biotechnological applications. Plant, Cell and Environment, 2011, 34, 1-20.	5.7	568
8	Inactivation of Photosynthetic Oxygen Evolution and Concomitant Release of Three Polypeptides in the Photosystem II Particles of Spinach Chloroplasts. Plant and Cell Physiology, 1982, 23, 533-539.	3.1	533
9	Control of excitation transfer in photosynthesis I. Light-induced change of chlorophyll a fluoresence in Porphyridium cruentum. Biochimica Et Biophysica Acta - Bioenergetics, 1969, 172, 242-251.	1.0	529
10	Glycinebetaine: an effective protectant against abiotic stress in plants. Trends in Plant Science, 2008, 13, 499-505.	8.8	515
11	Ionic and Osmotic Effects of NaCl-Induced Inactivation of Photosystems I and II in Synechococcus sp.1. Plant Physiology, 2000, 123, 1047-1056.	4.8	487
12	Genetically engineered alteration in the chilling sensitivity of plants. Nature, 1992, 356, 710-713.	27.8	460
13	Oxidative stress inhibits the repair of photodamage to the photosynthetic machinery. EMBO Journal, 2001, 20, 5587-5594.	7.8	456
14	Structure and expression of fatty acid desaturases. Lipids and Lipid Metabolism, 1998, 1394, 3-15.	2.6	455
15	Transformation of Arabidopsis thaliana with the codA gene for choline oxidase; accumulation of glycinebetaine and enhanced tolerance to salt and cold stress. Plant Journal, 1997, 12, 133-142.	5.7	452
16	Enhancement of chilling tolerance of a cyanobacterium by genetic manipulation of fatty acid desaturation. Nature, 1990, 347, 200-203.	27.8	408
17	Membrane Fluidity and Temperature Perception. Plant Physiology, 1997, 115, 875-879.	4.8	395
18	The unusually strong stabilizing effects of glycine betaine on the structure and function of the oxygen-evolving Photosystem II complex. Photosynthesis Research, 1995, 44, 243-252.	2.9	381

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19	Environmental stress inhibits the synthesis de novo of proteins involved in the photodamageâ€“repair cycle of Photosystem II in Synechocystis sp. PCC 6803. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1657, 23-32.	1.0	360
20	Genetic engineering of glycinebetaine synthesis in plants: current status and implications for enhancement of stress tolerance. Journal of Experimental Botany, 2000, 51, 81-88.	4.8	357
21	Control of excitation transfer in photosynthesis. II. Magnesium ion-dependent distribution of excitation energy between two pigment systems in spinach chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1969, 189, 171-181.	1.0	355
22	Metabolic engineering of rice leading to biosynthesis of glycinebetaine and tolerance to salt and cold. , 1998, 38, 1011-1019.		327
23	Two-Step Mechanism of Photodamage to Photosystem II:â€‰ Step 1 Occurs at the Oxygen-Evolving Complex and Step 2 Occurs at the Photochemical Reaction Center. Biochemistry, 2005, 44, 8494-8499.	2.5	309
24	Protein synthesis is the primary target of reactive oxygen species in the photoinhibition of photosystem II. Physiologia Plantarum, 2011, 142, 35-46.	5.2	294
25	Singlet Oxygen Inhibits the Repair of Photosystem II by Suppressing the Translation Elongation of the D1 Protein inSynechocystissp. PCC 6803â€. Biochemistry, 2004, 43, 11321-11330.	2.5	280
26	Salt Stress and Hyperosmotic Stress Regulate the Expression of Different Sets of Genes in Synechocystis sp. PCC 6803. Biochemical and Biophysical Research Communications, 2002, 290, 339-348.	2.1	273
27	Role of the 33-kDa polypeptide in preserving Mn in the photosynthetic oxygen-evolution system and its replacement by chloride ions. FEBS Letters, 1984, 170, 350-354.	2.8	256
28	Molecular Species Composition of Phosphatidylglycerols from Chilling-Sensitive and Chilling-Resistant Plants. Plant and Cell Physiology, 1983, 24, 81-86.	3.1	254
29	The primary signal in the biological perception of temperature: Pd-catalyzed hydrogenation of membrane lipids stimulated the expression of the desA gene in Synechocystis PCC6803.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 9090-9094.	7.1	254
30	The recovery of photosynthesis from low-temperature photoinhibition is accelerated by the unsaturation of membrane lipids: a mechanism of chilling tolerance.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 8787-8791.	7.1	248
31	Unsaturation of the membrane lipids of chloroplasts stabilizes the photosynthetic machinery against low-temperature photoinhibition in transgenic tobacco plants.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 6219-6223.	7.1	247
32	Salt Stress Inhibits the Repair of Photodamaged Photosystem II by Suppressing the Transcription and Translation of psbAGenes in Synechocystis Â. Plant Physiology, 2002, 130, 1443-1453.	4.8	246
33	The pathway for perception and transduction of low-temperature signals in Synechocystis. EMBO Journal, 2000, 19, 1327-1334.	7.8	238
34	Cold-regulated genes under control of the cold sensor Hik33 in Synechocystis. Molecular Microbiology, 2001, 40, 235-244.	2.5	238
35	Genetic engineering of glycinebetaine synthesis in tomato protects seeds, plants, and flowers from chilling damage. Plant Journal, 2004, 40, 474-487.	5.7	233
36	Revised scheme for the mechanism of photoinhibition and its application to enhance the abiotic stress tolerance of the photosynthetic machinery. Applied Microbiology and Biotechnology, 2014, 98, 8777-8796.	3.6	230

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37	Calcium ions can be substituted for the 24-kDa polypeptide in photosynthetic oxygen evolution. FEBS Letters, 1984, 168, 118-120.	2.8	218
38	Quantitative Analysis of the Inactivation of Photosynthetic Oxygen Evolution and the Release of Polypeptides and Manganese in the Photosystem II Particles of Spinach Chloroplasts. Plant and Cell Physiology, 1983, 24, 741-747.	3.1	204
39	Heat inactivation of oxygen evolution in Photosystem II particles and its acceleration by chloride depletion and exogenous manganese. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 807, 127-133.	1.0	202
40	Enhancement of the tolerance ofArabidopsisto high temperatures by genetic engineering of the synthesis of glycinebetaine. Plant Journal, 1998, 16, 155-161.	5.7	202
41	Membrane fluidity and the perception of environmental signals in cyanobacteria and plants. Progress in Lipid Research, 2003, 42, 527-543.	11.6	198
42	Unsaturated Fatty Acids in Membrane Lipids Protect the Photosynthetic Machinery against Salt-Induced Damage inSynechococcus. Plant Physiology, 2001, 125, 1842-1853.	4.8	197
43	Genetic engineering of the unsaturation of fatty acids in membrane lipids alters the tolerance of Synechocystis to salt stress. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5862-5867.	7.1	196
44	The histidine kinase Hik33 perceives osmotic stress and cold stress in Synechocystis sp. PCC 6803. Molecular Microbiology, 2002, 46, 905-915.	2.5	185
45	Transgenics of an elite indica rice variety Pusa Basmati 1 harbouring the codA gene are highly tolerant to salt stress. Theoretical and Applied Genetics, 2002, 106, 51-57.	3.6	183
46	Glycinebetaine stabilizes the association of extrinsic proteins with the photosynthetic oxygen-evolving complex. FEBS Letters, 1992, 296, 187-189.	2.8	176
47	The mechanism of photoinhibition in vivo: Re-evaluation of the roles of catalase, Î±-tocopherol, non-photochemical quenching, and electron transport. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1127-1133.	1.0	173
48	Identification of histidine kinases that act as sensors in the perception of salt stress in Synechocystis sp. PCC 6803. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9061-9066.	7.1	170
49	Transgenic Arabidopsis plants expressing the rice dehydroascorbate reductase gene are resistant to salt stress. Journal of Plant Physiology, 2006, 163, 1179-1184.	3.5	170
50	Extrinsic membrane proteins in the photosynthetic oxygen-evolving complex. Trends in Biochemical Sciences, 1985, 10, 122-124.	7.5	169
51	Temperature-Induced Changes in the Fatty Acid Composition of the Cyanobacterium, <i>Synechocystis</i> PCC6803. Plant Physiology, 1990, 92, 1062-1069.	4.8	167
52	Partial disintegration and reconstitution of the photosynthetic oxygen evolution system. Binding of 24 kilodalton and 18 kilodalton polypeptides. Biochimica Et Biophysica Acta - Bioenergetics, 1983, 725, 87-93.	1.0	166
53	Contribution of membrane lipids to the ability of the photosynthetic machinery to tolerate temperature stress.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 4273-4277.	7.1	165
54	Salt stress inhibits photosystems II and I in cyanobacteria. Photosynthesis Research, 2008, 98, 529-539.	2.9	160

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55	The Unsaturation of Membrane Lipids Stabilizes Photosynthesis against Heat Stress. Plant Physiology, 1994, 104, 563-567.	4.8	159
56	The SphS-SphR Two Component System Is the Exclusive Sensor for the Induction of Gene Expression in Response to Phosphate Limitation in Synechocystis. Journal of Biological Chemistry, 2004, 279, 13234-13240.	3.4	159
57	Positive Regulation of Sugar Catabolic Pathways in the Cyanobacterium Synechocystis sp. PCC 6803 by the Group 2 Ïƒ Factor SigE. Journal of Biological Chemistry, 2005, 280, 30653-30659.	3.4	159
58	Regulation of the desaturation of fatty acids and its role in tolerance to cold and salt stress. Current Opinion in Microbiology, 2002, 5, 208-210.	5.1	157
59	Differences in the control of the temperatureâ€dependent expression of four genes for desaturases in Synechocystis sp. PCC 6803. Molecular Microbiology, 1997, 25, 1167-1175.	2.5	154
60	A RAPID AND EFFICIENT METHOD TO PREPARE CHLOROPHYLL A AND B FROM LEAVES. Photochemistry and Photobiology, 1980, 31, 183-185.	2.5	153
61	Temperature-Dependent Phase Behavior of Phosphatidylglycerols from Chilling-Sensitive and Chilling-Resistant Plants. Plant Physiology, 1984, 74, 1016-1024.	4.8	153
62	Low-temperature resistance of higher plants is significantly enhanced by a nonspecific cyanobacterial desaturase. Nature Biotechnology, 1996, 14, 1003-1006.	17.5	152
63	The Clâˆ' effect on photosynthetic oxygen evolution: interaction of Clâˆ' with 18-kDa, 24-kDa and 33-kDa proteins. FEBS Letters, 1985, 180, 303-308.	2.8	148
64	Systematic Analysis of the Relation of Electron Transport and ATP Synthesis to the Photodamage and Repair of Photosystem II in Synechocystis. Plant Physiology, 2005, 137, 263-273.	4.8	145
65	Identical Hik-Rre Systems Are Involved in Perception and Transduction of Salt Signals and Hyperosmotic Signals but Regulate the Expression of Individual Genes to Different Extents in Synechocystis. Journal of Biological Chemistry, 2005, 280, 21531-21538.	3.4	144
66	The function of 33-kDa protein in the photosynthetic oxygen-evolution system studied by reconstitution experiments. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 806, 283-289.	1.0	139
67	Inhibition of the repair of Photosystem II by oxidative stress in cyanobacteria. Photosynthesis Research, 2005, 84, 1-7.	2.9	139
68	Interruption of the Calvin cycle inhibits the repair of Photosystem II from photodamage. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 352-361.	1.0	139
69	Inactivation of Photosystems I and II in Response to Osmotic Stress in Synechococcus. Contribution of Water Channels. Plant Physiology, 2000, 122, 1201-1208.	4.8	137
70	The Use of Bacterial Choline Oxidase, a Glycinebetaine-Synthesizing Enzyme, to Create Stress-Resistant Transgenic Plants. Plant Physiology, 2001, 125, 180-188.	4.8	137
71	Membrane dynamics as seen by Fourier transform infrared spectroscopy in a cyanobacterium, Synechocystis PCC 6803. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1509, 409-419.	2.6	136
72	Glycinebetaineâ€induced waterâ€stress tolerance in <i> codA</i>â€expressing transgenic <i>indica</i> rice is associated with upâ€regulation of several stress responsive genes. Plant Biotechnology Journal, 2009, 7, 512-526.	8.3	134

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73	Glycinebetaine accumulation is more effective in chloroplasts than in the cytosol for protecting transgenic tomato plants against abiotic stress. Plant, Cell and Environment, 2007, 30, 994-1005.	5.7	133
74	Stress-induced expression of choline oxidase in potato plant chloroplasts confers enhanced tolerance to oxidative, salt, and drought stresses. Plant Cell Reports, 2008, 27, 687-698.	5.6	133
75	Relationships between the Transition of the Physical Phase of Membrane Lipids and Photosynthetic Parameters in Anacystis nidulans and Lettuce and Spinach Chloroplasts. Plant Physiology, 1975, 56, 508-517.	4.8	132
76	Fluorescence of chlorophyll in photosynthetic systems III. Emission and action spectra of fluorescenceâ€"Three emission bands of chlorophyll a and the energy transfer between two pigment systems. Biochimica Et Biophysica Acta (BBA) - Biophysics Including Photosynthesis, 1966, 126, 234-243.	2.3	131
77	From The Cover: Functional expression of a Â12 fatty acid desaturase gene from spinach in transgenic pigs. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6361-6366.	7.1	131
78	Gene Expression Profiling Reflects Physiological Processes in Salt Acclimation of Synechocystis sp. Strain PCC 6803. Plant Physiology, 2004, 136, 3290-3300.	4.8	131
79	Transformation of Synechococcus with a gene for choline oxidase enhances tolerance to salt stress. Plant Molecular Biology, 1995, 29, 897-907.	3.9	128
80	Gene-engineered Rigidification of Membrane Lipids Enhances the Cold Inducibility of Gene Expression in Synechocystis. Journal of Biological Chemistry, 2003, 278, 12191-12198.	3.4	127
81	Nitrogen Induction of Sugar Catabolic Gene Expression in Synechocystis sp. PCC 6803. DNA Research, 2006, 13, 185-195.	3.4	127
82	Unsaturation of fatty acids in membrane lipids enhances tolerance of the cyanobacterium Synechocystis PCC6803 to low-temperature photoinhibition.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 9959-9963.	7.1	126
83	[24] Membrane lipids. Methods in Enzymology, 1988, 167, 251-259.	1.0	122
84	Five Histidine Kinases Perceive Osmotic Stress and Regulate Distinct Sets of Genes in Synechocystis. Journal of Biological Chemistry, 2004, 279, 53078-53086.	3.4	120
85	The cis/trans isomerization of the double bond of a fatty acid as a strategy for adaptation to changes in ambient temperature in the psychrophilic bacterium, Vibrio sp. strain ABE-1. Lipids and Lipid Metabolism, 1991, 1084, 13-20.	2.6	118
86	Temperature Dependence of Chlorophyll <i>a</i> Fluorescence in Relation to the Physical Phase of Membrane Lipids Algae and Higher Plants. Plant Physiology, 1975, 56, 791-796.	4.8	117
87	Low-temperature effects on cyanobacterial membranes. Journal of Bioenergetics and Biomembranes, 1989, 21, 61-75.	2.3	117
88	Enhanced tolerance to light stress of transgenic Arabidopsis plants that express the codA gene for a bacterial choline oxidase. Plant Molecular Biology, 1999, 40, 279-288.	3.9	117
89	Enhanced formation of flowers in salt-stressedArabidopsisafter genetic engineering of the synthesis of glycine betaine. Plant Journal, 2003, 36, 165-176.	5.7	116
90	Glycerolipids in various preparations of Photosystem II from spinach chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1019, 261-268.	1.0	115

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91	Transformation of Arabidopsis with the codA gene for choline oxidase enhances freezing tolerance of plants. Plant Journal, 2000, 22, 449-453.	5.7	115
92	Temperature shift-induced responses in lipids in the blue-green alga, Anabaena variabilis. Lipids and Lipid Metabolism, 1980, 619, 353-366.	2.6	114
93	The mode of binding of three extrinsic proteins of 33 kDa, 23 kDa and 18 kDa in the photosystem II complex of spinach. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 977, 315-321.	1.0	112
94	Glycinebetaine protects the D1/D2/Cytb559 complex of photosystem II against photo-induced and heat-induced inactivation. Journal of Plant Physiology, 2003, 160, 41-49.	3.5	112
95	Glycerol-3-phosphate acyltransferase in plants. Lipids and Lipid Metabolism, 1997, 1348, 10-16.	2.6	111
96	Purification and characterization of 33 kilodalton protein of spinach chloroplasts. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1979, 581, 228-236.	1.7	110
97	Fluorescence of chlorophyll in photosynthetic systems II. Induction of fluorescence in isolated spinach chloroplasts. Biochimica Et Biophysica Acta (BBA) - Biophysics Including Photosynthesis, 1966, 120, 23-33.	2.3	108
98	ATP is a driving force in the repair of photosystem II during photoinhibition. Plant, Cell and Environment, 2018, 41, 285-299.	5.7	107
99	Control of excitation transfer in photosynthesis. III. Light-induced decrease of chlorophyll a fluorescence related to photophosphorylation system in spinach chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1969, 189, 182-192.	1.0	106
100	An Increase in Unsaturation of Fatty Acids in Phosphatidylglycerol from Leaves Improves the Rates of Photosynthesis and Growth at Low Temperatures in Transgenic Rice Seedlings. Plant and Cell Physiology, 2002, 43, 751-758.	3.1	106
101	The temperatureâ€dependent expression of the desaturase gene <i>desA</i> in <i>Synechocystis</i> PCC6803. FEBS Letters, 1993, 318, 57-60.	2.8	104
102	Glucosylglycerol, a Compatible Solute, Sustains Cell Division under Salt Stress. Plant Physiology, 2003, 131, 1628-1637.	4.8	103
103	The essential role of phosphatidylglycerol in photosynthesis. Photosynthesis Research, 2007, 92, 205-215.	2.9	103
104	Membrane Lipid Unsaturation Modulates Processing of the Photosystem II Reaction-Center Protein D1 at Low Temperatures. Plant Physiology, 1997, 114, 841-849.	4.8	102
105	Transformation of tomato with a bacterial codA gene enhances tolerance to salt and water stresses. Journal of Plant Physiology, 2011, 168, 1286-1294.	3.5	99
106	A Bacterial Transgene for Catalase Protects Translation of D1 Protein during Exposure of Salt-Stressed Tobacco Leaves to Strong Light. Plant Physiology, 2007, 145, 258-265.	4.8	98
107	Transformation with a gene for choline oxidase enhances the cold tolerance of Arabidopsis during germination and early growth. Plant, Cell and Environment, 1998, 21, 232-239.	5.7	96
108	Thioredoxin peroxidase in the CyanobacteriumSynechocystissp. PCC 6803. FEBS Letters, 1999, 447, 269-273.	2.8	95

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109	Molecular cloning and characterization of a rice dehydroascorbate reductase. FEBS Letters, 2000, 466, 107-111.	2.8	95
110	Effects of glycinebetaine and unsaturation of membrane lipids on heat stability of photosynthetic electron-transport and phosphorylation reactions in Synechocystis PCC6803. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1142, 1-5.	1.0	94
111	The action in vivo of glycine betaine in enhancement of tolerance of Synechococcus sp. strain PCC 7942 to low temperature. Journal of Bacteriology, 1997, 179, 339-344.	2.2	91
112	Glycinebetaine alleviates the inhibitory effect of moderate heat stress on the repair of photosystem II during photoinhibition. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 1363-1371.	1.0	91
113	Effect of Growth Temperature on the Lipid and Fatty Acid Composition, and the Dependence on Temperature of Light-induced Redox Reactions of Cytochrome <i>f</i> and of Light Energy Redistribution in the Thermophilic Blue-Green Alga <i>Synechococcus lividus</i>. Plant Physiology, 1979, 63, 524-530.	4.8	90
114	Isolation and characterization of three types of membranes from the cyanobacterium (blue-green) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	90
115	The gene and the RNA for the precursor to the plastid-located glycerol-3-phosphate acyltransferase of Arabidopsis thaliana. Plant Molecular Biology, 1993, 21, 267-277.	3.9	90
116	Cloning of ?3 desaturase from cyanobacteria and its use in altering the degree of membrane-lipid unsaturation. Plant Molecular Biology, 1994, 26, 249-263.	3.9	89
117	Functional Expression in Escherichia coli of Low-Affinity and High-Affinity Na + (Li +)/H + Antiporters of Synechocystis. Journal of Bacteriology, 2001, 183, 1376-1384.	2.2	89
118	The Histidine Kinase Hik34 Is Involved in Thermotolerance by Regulating the Expression of Heat Shock Genes in Synechocystis. Plant Physiology, 2005, 138, 1409-1421.	4.8	89
119	Histidine kinases play important roles in the perception and signal transduction of hydrogen peroxide in the cyanobacterium, Synechocystis sp. PCC 6803. Plant Journal, 2007, 49, 313-324.	5.7	89
120	Stabilization of oxygen evolution and primary electron transport reactions in photosystem II against heat stress with glycinebetaine and sucrose. Journal of Photochemistry and Photobiology B: Biology, 1996, 34, 149-157.	3.8	88
121	Effect of the 33-kDa protein on the S-state transitions in photosynthetic oxygen evolution. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 890, 151-159.	1.0	86
122	Glycinebetaine Counteracts the Inhibitory Effects of Salt Stress on the Degradation and Synthesis of D1 Protein during Photoinhibition in Synechococcus sp. PCC 7942. Plant Physiology, 2006, 141, 758-765.	4.8	86
123	[23] Isolation of cyanobacterial plasma membranes. Methods in Enzymology, 1988, 167, 245-251.	1.0	85
124	Characterization of a two-component signal transduction system involved in the induction of alkaline phosphatase under phosphate-limiting conditions in Synechocystis sp. PCC 6803. Plant Molecular Biology, 2001, 45, 133-144.	3.9	85
125	Effects of divalent metal ions on chlorophyll a fluorescence in isolated spinach chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1970, 197, 250-256.	1.0	83
126	Effects of monovalent cations on light energy distribution between two pigment systems of photosynthesis in isolated spinach chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1971, 226, 422-432.	1.0	83

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127	Genetic Enhancement of the Ability to Tolerate Photoinhibition by Introduction of Unsaturated Bonds into Membrane Glycerolipids. Plant Physiology, 1997, 115, 551-559.	4.8	82
128	Analysis of the Structure, Substrate Specificity, and Mechanism of Squash Glycerol-3-Phosphate (1)-Acyltransferase. Structure, 2001, 9, 347-353.	3.3	82
129	Glycinebetaine enhances the tolerance of tomato plants to high temperature during germination of seeds and growth of seedlings. Plant, Cell and Environment, 2011, 34, 1931-1943.	5.7	82
130	Chilling Susceptibility of the Blue-green Alga <i>Anacystis nidulans</i>. Plant Physiology, 1981, 67, 176-181.	4.8	81
131	Evidence that a chlorophylla' dimer constitutes the photochemical reaction centre 1 (P700) in photosynthetic apparatus. FEBS Letters, 1985, 191, 252-256.	2.8	81
132	Complete amino acid sequence of 33 kDa protein isolated from spinach photosystem II particles. FEBS Letters, 1986, 197, 63-66.	2.8	81
133	Glycerate-3-phosphate, produced by CO_2 fixation in the Calvin cycle, is critical for the synthesis of the D1 protein of photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 198-205.	1.0	81
134	Protection of the oxygen-evolving photosystem II complex by glycinebetaine. Biochimica Et Biophysica Acta - Bioenergetics, 1991, 1057, 361-366.	1.0	80
135	Exploitation of genomic sequences in a systematic analysis to access how cyanobacteria sense environmental stress. Journal of Experimental Botany, 2006, 57, 235-247.	4.8	80
136	Chlorophyll aâ€²/P-700 and pheophytin a/P-680 stoichiometries in higher plants and cyanobacteria determined by HPLC analysis. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 936, 81-89.	1.0	78
137	Title is missing!. Molecular Breeding, 1998, 4, 269-275.	2.1	77
138	A Two-Component Mn^{2+}-Sensing System Negatively Regulates Expression of the mntCAB Operon in Synechocystis. Plant Cell, 2002, 14, 2901-2913.	6.6	76
139	Proteomic analysis of the heat shock response inSynechocystis PCC6803 and a thermally tolerant knockout strain lacking the histidine kinaseâ€…34 gene. Proteomics, 2006, 6, 845-864.	2.2	75
140	Application of low temperatures during photoinhibition allows characterization of individual steps in photodamage and the repair of photosystem II. Photosynthesis Research, 2007, 94, 217-224.	2.9	75
141	Identification of a new gene in the chloroplast genome encoding a low-molecular-mass polypeptide of photosystem II complex. FEBS Letters, 1988, 235, 283-288.	2.8	74
142	PsbU, a Protein Associated with Photosystem II, Is Required for the Acquisition of Cellular Thermotolerance inSynechococcus species PCC 70021. Plant Physiology, 1999, 120, 301-308.	4.8	74
143	Cloning and nucleotide sequence of cDNA for the plastid glycerol-3-phosphate acyltransferase from squash. FEBS Letters, 1988, 238, 424-430.	2.8	72
144	Photosynthetic Oxygen Evolution Is Stabilized by Cytochrome c550 against Heat Inactivation in Synechococcus sp. PCC 7002. Plant Physiology, 1994, 105, 1313-1319.	4.8	72

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145	Control of excitation transfer in photosynthesis V. Correlation of membrane structure to regulation of excitation transfer between two pigment systems in isolated spinach chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1971, 245, 365-372.	1.0	71
146	Enhanced germination under high-salt conditions of seeds of transgenicArabidopsis with a bacterial gene (codA) for choline oxidase. Journal of Plant Research, 1998, 111, 357-362.	2.4	71
147	Characterization of ÂA9 Acyl-lipid Desaturase Homologues from Arabidopsis thaliana. Plant and Cell Physiology, 1998, 39, 247-253.	3.1	69
148	Partial degradation of the 18-kDa protein of the photosynthetic oxygen-evolving complex: A study of a binding site. Biochimica Et Biophysica Acta - Bioenergetics, 1986, 850, 146-155.	1.0	67
149	Low-temperature-induced desaturation of fatty acids and expression of desaturase genes in the cyanobacterium Synechococcus sp. PCC 7002. FEMS Microbiology Letters, 2006, 152, 313-320.	1.8	66
150	Control of excitation transfer in photosynthesis. IV. Kinetics of chlorophyll a fluorescence in Porphyra yezoensis. Biochimica Et Biophysica Acta - Bioenergetics, 1970, 205, 379-389.	1.0	65
151	In vitro ferredoxin-dependent desaturation of fatty acids in cyanobacterial thylakoid membranes. Journal of Bacteriology, 1993, 175, 544-547.	2.2	65
152	DNA supercoiling regulates the stress-inducible expression of genes in the cyanobacterium Synechocystis. Molecular BioSystems, 2009, 5, 1904.	2.9	65
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