

Congming Lu

List of Publications by Year in descending order

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91
papers

6,034
citations

61984

43
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74163

75
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93
docs citations

93
times ranked

6252
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of water stress on photosystem II photochemistry and its thermostability in wheat plants. <i>Journal of Experimental Botany</i> , 1999, 50, 1199-1206.	4.8	272
2	LOW PSII ACCUMULATION1 Is Involved in Efficient Assembly of Photosystem II in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2006, 18, 955-969.	6.6	209
3	Chloroplast Small Heat Shock Protein HSP21 Interacts with Plastid Nucleoid Protein pTAC5 and Is Essential for Chloroplast Development in <i>Arabidopsis</i> under Heat Stress. <i>Plant Cell</i> , 2013, 25, 2925-2943.	6.6	208
4	Site-Specific Nitrosoproteomic Identification of Endogenously <i>S</i> -Nitrosylated Proteins in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2015, 167, 1731-1746.	4.8	202
5	Salinity treatment shows no effects on photosystem II photochemistry, but increases the resistance of photosystem II to heat stress in halophyte <i>Suaeda salsa</i> . <i>Journal of Experimental Botany</i> , 2003, 54, 851-860.	4.8	198
6	Genetic Engineering of the Biosynthesis of Glycinebetaine Enhances Photosynthesis against High Temperature Stress in Transgenic Tobacco Plants. <i>Plant Physiology</i> , 2005, 138, 2299-2309.	4.8	195
7	Photosynthesis is improved by exogenous glycinebetaine in salt-stressed maize plants. <i>Physiologia Plantarum</i> , 2005, 124, 343-352.	5.2	186
8	Effects of salinity stress on photosystem II function in cyanobacterial <i>Spirulina platensis</i> cells. <i>Physiologia Plantarum</i> , 2002, 114, 405-413.	5.2	179
9	Photosynthesis, photosystem II efficiency and the xanthophyll cycle in the salt-adapted halophyte <i>Atriplex centralasiatica</i> . <i>New Phytologist</i> , 2003, 159, 479-486.	7.3	175
10	Genetic engineering of the biosynthesis of glycinebetaine enhances thermotolerance of photosystem II in tobacco plants. <i>Planta</i> , 2007, 225, 719-733.	3.2	174
11	Formation of DEG5 and DEG8 Complexes and Their Involvement in the Degradation of Photodamaged Photosystem II Reaction Center D1 Protein in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2007, 19, 1347-1361.	6.6	168
12	Genetic engineering of the biosynthesis of glycinebetaine leads to increased tolerance of photosynthesis to salt stress in transgenic tobacco plants. <i>Plant Molecular Biology</i> , 2008, 66, 73-86.	3.9	155
13	Does salt stress lead to increased susceptibility of photosystem II to photoinhibition and changes in photosynthetic pigment composition in halophyte <i>Suaeda salsa</i> grown outdoors?. <i>Plant Science</i> , 2002, 163, 1063-1068.	3.6	124
14	Tetrapyrrole biosynthetic enzyme protoporphyrinogen IX oxidase 1 is required for plastid RNA editing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2023-2028.	7.1	120
15	Tolerance of photosynthesis to photoinhibition, high temperature and drought stress in flag leaves of wheat: A comparison between a hybridization line and its parents grown under field conditions. <i>Plant Science</i> , 2006, 171, 389-397.	3.6	113
16	PSBP-DOMAIN PROTEIN1, a Nuclear-Encoded Thylakoid Lumenal Protein, Is Essential for Photosystem I Assembly in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 24, 4992-5006.	6.6	110
17	The Pentatricopeptide Repeat Protein DELAYED GREENING1 Is Involved in the Regulation of Early Chloroplast Development and Chloroplast Gene Expression in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2008, 147, 573-584.	4.8	107
18	LPA66 Is Required for Editing <i>psbF</i> Chloroplast Transcripts in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2009, 150, 1260-1271.	4.8	104

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19	The combined effect of salt stress and heat shock on proteome profiling in Suaeda salsa. Journal of Plant Physiology, 2011, 168, 1743-1752.	3.5	102
20	Effect of initial biomass density on growth and astaxanthin production of Haematococcus pluvialis in an outdoor photobioreactor. Journal of Applied Phycology, 2013, 25, 253-260.	2.8	102
21	Enhanced sensitivity to oxidative stress in transgenic tobacco plants with decreased glutathione reductase activity leads to a decrease in ascorbate pool and ascorbate redox state. Plant Molecular Biology, 2009, 69, 577-592.	3.9	101
22	The Stromal Chloroplast Deg7 Protease Participates in the Repair of Photosystem II after Photoinhibition in Arabidopsis. Plant Physiology, 2010, 152, 1263-1273.	4.8	100
23	Effects of water stress on photosynthesis, chlorophyll fluorescence and photoinhibition in wheat plants. Functional Plant Biology, 1998, 25, 883.	2.1	99
24	The thylakoid protease Deg1 is involved in photosystem-II assembly in Arabidopsis thaliana. Plant Journal, 2010, 62, 240-249.	5.7	96
25	Characterization of PSII photochemistry in salt-adapted cells of cyanobacterium Spirulina platensis. New Phytologist, 1999, 141, 231-239.	7.3	88
26	Enhanced sucrose loading improves rice yield by increasing grain size. Plant Physiology, 2015, 169, pp.01170.2015.	4.8	88
27	Molecular mechanism of photosystem I assembly in oxygenic organisms. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 838-848.	1.0	84
28	Convergence of light and chloroplast signals for de-etiolation through ABI4-HY5 and COP1. Nature Plants, 2016, 2, 16066.	9.3	81
29	Enhanced thermotolerance of photosystem II in salt-adapted plants of the halophyte Artemisia anethifolia. Planta, 2005, 220, 486-497.	3.2	79
30	Photosynthesis and chlorophyllafluorescence during flag leaf senescence of field-grown wheat plants. Journal of Plant Physiology, 2002, 159, 1173-1178.	3.5	72
31	Salt stress induces a decrease in excitation energy transfer from phycobilisomes to photosystem II but an increase to photosystem I in the cyanobacterium Spirulina platensis. Journal of Plant Physiology, 2010, 167, 951-958.	3.5	71
32	PPR-SMR protein SOT1 has RNA endonuclease activity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1554-E1563.	7.1	71
33	Plastid-nucleus communication involves calcium-modulated MAPK signalling. Nature Communications, 2016, 7, 12173.	12.8	70
34	Liquid-Liquid Phase Transition Drives Intra-chloroplast Cargo Sorting. Cell, 2020, 180, 1144-1159.e20.	28.9	70
35	LTD is a protein required for sorting light-harvesting chlorophyll-binding proteins to the chloroplast SRP pathway. Nature Communications, 2011, 2, 277.	12.8	60
36	Interaction of the pentatricopeptide-repeat protein DELAYED GREENING 1 with sigma factor SIG6 in the regulation of chloroplast gene expression in Arabidopsis cotyledons. Plant Journal, 2010, 64, 14-25.	5.7	58

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37	Title is missing!. Journal of Applied Phycology, 1999, 11, 355-359.	2.8	56
38	Photosystem II photochemistry and photosynthetic pigment composition in salt-adapted halophyte <i>Artimisia anethifolia</i> grown under outdoor conditions. Journal of Plant Physiology, 2003, 160, 403-408.	3.5	53
39	mTERF5 Acts as a Transcriptional Pausing Factor to Positively Regulate Transcription of Chloroplast psbEFLJ. Molecular Plant, 2019, 12, 1259-1277.	8.3	53
40	Characterization of photosystem II in salt-stressed cyanobacterial <i>Spirulina platensis</i> cells. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 488-495.	1.0	52
41	Chloroplast retrograde signal regulates flowering. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10708-10713.	7.1	51
42	Effects of water stress on photosystem II photochemistry and its thermostability in wheat plants. Journal of Experimental Botany, 1999, 50, 1199-1206.	4.8	48
43	The Role of Chloroplast Gene Expression in Plant Responses to Environmental Stress. International Journal of Molecular Sciences, 2020, 21, 6082.	4.1	45
44	Spectral and functional studies on siphonaxanthin-type light-harvesting complex of photosystem II from <i>Bryopsis corticulans</i> . Photosynthesis Research, 2013, 117, 267-279.	2.9	44
45	Thermostability of photosystem II is increased in salt-stressed sorghum. Functional Plant Biology, 1998, 25, 317.	2.1	43
46	PPR Protein BFA2 Is Essential for the Accumulation of the atpH/F Transcript in Chloroplasts. Frontiers in Plant Science, 2019, 10, 446.	3.6	43
47	Comparative proteomic analysis provides new insights into the regulation of carbon metabolism during leaf senescence of rice grown under field conditions. Journal of Plant Physiology, 2010, 167, 1380-1389.	3.5	40
48	Enhanced sensitivity and characterization of photosystem II in transgenic tobacco plants with decreased chloroplast glutathione reductase under chilling stress. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1979-1991.	1.0	40
49	Effects of heat stress on PSII photochemistry in a cyanobacterium <i>Spirulina platensis</i> . Plant Science, 2008, 175, 556-564.	3.6	39
50	Decreased glutathione reductase2 leads to early leaf senescence in <i>Arabidopsis</i> . Journal of Integrative Plant Biology, 2016, 58, 29-47.	8.5	39
51	Heat stress induces an inhibition of excitation energy transfer from phycobilisomes to photosystem II but not to photosystem I in a cyanobacterium <i>Spirulina platensis</i> . Plant Physiology and Biochemistry, 2005, 43, 389-395.	5.8	38
52	The Phytol Phosphorylation Pathway Is Essential for the Biosynthesis of Phylloquinone, which Is Required for Photosystem I Stability in <i>Arabidopsis</i> . Molecular Plant, 2017, 10, 183-196.	8.3	38
53	OsSWEET14 cooperates with OsSWEET11 to contribute to grain filling in rice. Plant Science, 2021, 306, 110851.	3.6	38
54	Cooperation of LPA3 and LPA2 Is Essential for Photosystem II Assembly in <i>Arabidopsis</i> . Plant Physiology, 2010, 154, 109-120.	4.8	37

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55	Role of light in the response of PSII photochemistry to salt stress in the cyanobacterium <i>Spirulina platensis</i> . <i>Journal of Experimental Botany</i> , 2000, 51, 911-917.	4.8	36
56	Photosynthetic light and CO ₂ utilization and C ₄ traits of two novel super-rice hybrids. <i>Journal of Plant Physiology</i> , 2006, 163, 529-537.	3.5	35
57	Heat stress induces a reversible inhibition of electron transport at the acceptor side of photosystem II in a cyanobacterium <i>Spirulina platensis</i> . <i>Plant Science</i> , 2005, 168, 1471-1476.	3.6	34
58	Characterization of photosynthesis of flag leaves in a wheat hybrid and its parents grown under field conditions. <i>Journal of Plant Physiology</i> , 2007, 164, 318-326.	3.5	34
59	Comparative proteomic study reveals dynamic proteome changes between superhybrid rice LYP9 and its parents at different developmental stages. <i>Journal of Plant Physiology</i> , 2012, 169, 387-398.	3.5	34
60	Pentatricopeptide repeat protein PHOTOSYSTEM I BIOGENESIS FACTOR2 is required for splicing of <i>ycf3</i> . <i>Journal of Integrative Plant Biology</i> , 2020, 62, 1741-1761.	8.5	31
61	Effects of exogenous glycinebetaine on growth, CO ₂ assimilation, and photosystem II photochemistry of maize plants. <i>Physiologia Plantarum</i> , 2006, 127, 593-602.	5.2	30
62	The xanthophyll cycle and antioxidative defense system are enhanced in the wheat hybrid subjected to high light stress. <i>Journal of Plant Physiology</i> , 2011, 168, 1828-1836.	3.5	30
63	Characterization of photosystem II in transgenic tobacco plants with decreased iron superoxide dismutase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 391-403.	1.0	28
64	Glutathione reductase 2 maintains the function of photosystem II in <i>Arabidopsis</i> under excess light. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 665-677.	1.0	28
65	Kinetic response of photosystem II photochemistry in the cyanobacterium <i>Spirulina platensis</i> to high salinity is characterized by two distinct phases. <i>Functional Plant Biology</i> , 1999, 26, 283.	2.1	27
66	RHON1 Mediates a Rho-Like Activity for Transcription Termination in Plastids of <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2015, 26, 4918-4932.	6.6	26
67	Genetic analysis of tolerance to photo-oxidative stress induced by high light in winter wheat (<i>Triticum aestivum</i> L.). <i>Journal of Genetics and Genomics</i> , 2010, 37, 399-412.	3.9	25
68	PSII photochemistry, thermal energy dissipation, and the xanthophyll cycle in <i>Kalanchoe daigremontiana</i> exposed to a combination of water stress and high light. <i>Physiologia Plantarum</i> , 2003, 118, 173-182.	5.2	24
69	The Enigmatic Roles of PPR&MR Proteins in Plants. <i>Advanced Science</i> , 2019, 6, 1900361.	11.2	22
70	The photosensitive <i>phs1</i> mutant is impaired in the riboflavin biogenesis pathway. <i>Journal of Plant Physiology</i> , 2010, 167, 1466-1476.	3.5	21
71	Tetratricopeptide repeat protein <i>Pyg7</i> is essential for photosystem I assembly by interacting with <i>PsaC</i> in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2017, 91, 950-961.	5.7	21
72	Overexpression of <i>StNF-YB3.1</i> reduces photosynthetic capacity and tuber production, and promotes ABA-mediated stomatal closure in potato (<i>Solanum tuberosum</i> L.). <i>Plant Science</i> , 2017, 261, 50-59.	3.6	21

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73	Identification and characterization of chloroplast casein kinase II from <i>Oryza sativa</i> (rice). <i>Journal of Experimental Botany</i> , 2015, 66, 175-187.	4.8	18
74	Purine biosynthetic enzyme ATase2 is involved in the regulation of early chloroplast development and chloroplast gene expression in <i>Arabidopsis</i> . <i>Photosynthesis Research</i> , 2015, 126, 285-300.	2.9	17
75	Inhibition of quantum yield of PS II electron transport in <i>Spirulina platensis</i> by osmotic stress may be explained mainly by an increase in the proportion of the QB-non-reducing PS II reaction centres. <i>Functional Plant Biology</i> , 1998, 25, 689.	2.1	14
76	Photoinhibition and the xanthophyll cycle are not enhanced in the salt-acclimated halophyte <i>Artemisia anethifolia</i> . <i>Physiologia Plantarum</i> , 2003, 118, 532-537.	5.2	14
77	Characterization of photosystem II photochemistry in transgenic tobacco plants with lowered Rubisco activase content. <i>Journal of Plant Physiology</i> , 2010, 167, 1457-1465.	3.5	13
78	A Kinase-Phosphatase-Transcription Factor Module Regulates Adventitious Root Emergence in <i>Arabidopsis</i> Root-Hypocotyl Junctions. <i>Molecular Plant</i> , 2020, 13, 1162-1177.	8.3	13
79	Autophagy targets Hd1 for vacuolar degradation to regulate rice flowering. <i>Molecular Plant</i> , 2022, 15, 1137-1156.	8.3	13
80	Functional analysis of the rice rubisco activase promoter in transgenic <i>Arabidopsis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2012, 418, 565-570.	2.1	12
81	Comparative analysis reveals gravity is involved in the MIZ1-regulated root hydrotropism. <i>Journal of Experimental Botany</i> , 2020, 71, 7316-7330.	4.8	12
82	Characterization of photosystem I in rice (<i>Oryza sativa</i> L.) seedlings upon exposure to random positioning machine. <i>Photosynthesis Research</i> , 2013, 116, 93-105.	2.9	9
83	F-Type ATP Synthase Assembly Factors Atp11 and Atp12 in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 522753.	3.6	8
84	An overview of RNA splicing and functioning of splicing factors in land plant chloroplasts. <i>RNA Biology</i> , 2022, 19, 897-907.	3.1	7
85	CAF Proteins Help SOT1 Regulate the Stability of Chloroplast ndhA Transcripts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12639.	4.1	6
86	Non-Photochemical Quenching: From Light Perception to Photoprotective Gene Expression. <i>International Journal of Molecular Sciences</i> , 2022, 23, 687.	4.1	5
87	Katanin-Dependent Microtubule Ordering in Association with ABA Is Important for Root Hydrotropism. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3846.	4.1	4
88	Analysis of the changes of electron transfer and heterogeneity of photosystem II in Deg1-reduced <i>Arabidopsis</i> plants. <i>Photosynthesis Research</i> , 2021, 150, 159-177.	2.9	3
89	Special issue on Regulation of the Photosynthetic Systems in honor of Tingyun Kuang. <i>Photosynthesis Research</i> , 2015, 126, 185-188.	2.9	1
90	An innovative artificial photosystem II constructed from PSII core of <i>Thermosynechococcus vulcanus</i> and LHCII of <i>Pisum sativum</i> - A new approach for studying the function of photosynthetic antenna. <i>Plant Physiology and Biochemistry</i> , 2020, 154, 160-170.	5.8	1

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91	Plastid Deficient 1 Is Essential for the Accumulation of Plastid-Encoded RNA Polymerase Core Subunit $\hat{2}$ and Chloroplast Development in Arabidopsis. International Journal of Molecular Sciences, 2021, 22, 13648.	4.1	1