Congming Lu

List of Publications by Year
in descending order

91 papers	6,034 citations	61984 43 h-index	74163 75 g-index
93 all docs	93 docs citations	93 times ranked	6252 citing authors

#	Article	IF	Citations
1	Non-Photochemical Quenching: From Light Perception to Photoprotective Gene Expression. International Journal of Molecular Sciences, 2022, 23, 687.	4.1	5
2	Katanin-Dependent Microtubule Ordering in Association with ABA Is Important for Root Hydrotropism. International Journal of Molecular Sciences, 2022, 23, 3846.	4.1	4
3	Autophagy targets Hd1 for vacuolar degradation to regulate rice flowering. Molecular Plant, 2022, 15, 1137-1156.	8.3	13
4	An overview of RNA splicing and functioning of splicing factors in land plant chloroplasts. RNA Biology, 2022, 19, 897-907.	3.1	7
5	Analysis of the changes of electron transfer and heterogeneity of photosystem II in Deg1-reduced Arabidopsis plants. Photosynthesis Research, 2021, 150, 159-177.	2.9	3
6	OsSWEET14 cooperates with OsSWEET11 to contribute to grain filling in rice. Plant Science, 2021, 306, 110851.	3.6	38
7	CAF Proteins Help SOT1 Regulate the Stability of Chloroplast ndhA Transcripts. International Journal of Molecular Sciences, 2021, 22, 12639.	4.1	6
8	Plastid Deficient 1 Is Essential for the Accumulation of Plastid-Encoded RNA Polymerase Core Subunit Î² and Chloroplast Development in Arabidopsis. International Journal of Molecular Sciences, 2021, 22, 13648.	4.1	1
9	The Role of Chloroplast Gene Expression in Plant Responses to Environmental Stress. International Journal of Molecular Sciences, 2020, 21, 6082.	4.1	45
10	Comparative analysis reveals gravity is involved in the MIZ1-regulated root hydrotropism. Journal of Experimental Botany, 2020, 71, 7316-7330.	4.8	12
11	F-Type ATP Synthase Assembly Factors Atp11 and Atp12 in Arabidopsis. Frontiers in Plant Science, 2020, 11, 522753.	3.6	8
12	An innovative artificial photosystem II constructed from PSII core of Thermosynechococcus vulcanus and LHCII of Pisum sativum - A new approach for studying the function of photosynthetic antenna. Plant Physiology and Biochemistry, 2020, 154, 160-170.	5.8	1
13	A Kinaseâ€“Phosphataseâ€“Transcription Factor Module Regulates Adventitious Root Emergence in Arabidopsis Rootâ€“Hypocotyl Junctions. Molecular Plant, 2020, 13, 1162-1177.	8.3	13
14	Liquid-Liquid Phase Transition Drives Intra-chloroplast Cargo Sorting. Cell, 2020, 180, 1144-1159.e20.	28.9	70
15	Pentatricopeptide repeat protein PHOTOSYSTEM I BIOGENESIS FACTOR2 is required for splicing of ycf3. Journal of Integrative Plant Biology, 2020, 62, 1741-1761.	8.5	31
16	mTERF5 Acts as a Transcriptional Pausing Factor to Positively Regulate Transcription of Chloroplast psbEFLJ. Molecular Plant, 2019, 12, 1259-1277.	8.3	53
17	The Enigmatic Roles of PPRâ€SMR Proteins in Plants. Advanced Science, 2019, 6, 1900361.	11.2	22
18	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

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19	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
20	Tetratricopeptide repeat protein Pyg7 is essential for photosystem I assembly by interacting with PsaC in Arabidopsis. Plant Journal, 2017, 91, 950-961.	5.7	21
21	Overexpression of StNF-YB3.1 reduces photosynthetic capacity and tuber production, and promotes ABA-mediated stomatal closure in potato (Solanum tuberosum L.). Plant Science, 2017, 261, 50-59.	3.6	21
22	The Phytol Phosphorylation Pathway Is Essential for the Biosynthesis of Phylloquinone, which Is Required for Photosystem I Stability in Arabidopsis. Molecular Plant, 2017, 10, 183-196.	8.3	38
23	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
24	Decreased glutathione reductase2 leads to early leaf senescence in Arabidopsis. Journal of Integrative Plant Biology, 2016, 58, 29-47.	8.5	39
25	Convergence of light and chloroplast signals for de-etiolation through ABI4â€“HY5 and COP1. Nature Plants, 2016, 2, 16066.	9.3	81
26	Plastid-nucleus communication involves calcium-modulated MAPK signalling. Nature Communications, 2016, 7, 12173.	12.8	70
27	Glutathione reductase 2 maintains the function of photosystem II in Arabidopsis under excess light. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 665-677.	1.0	28
28	Site-Specific Nitrosoproteomic Identification of EndogenouslyS-Nitrosylated Proteins in Arabidopsis. Plant Physiology, 2015, 167, 1731-1746.	4.8	202
29	Purine biosynthetic enzyme ATase2 is involved in the regulation of early chloroplast development and chloroplast gene expression in Arabidopsis. Photosynthesis Research, 2015, 126, 285-300.	2.9	17
30	Molecular mechanism of photosystem I assembly in oxygenic organisms. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 838-848.	1.0	84
31	Enhanced sucrose loading improves rice yield by increasing grain size. Plant Physiology, 2015, 169, pp.01170.2015.	4.8	88
32	Special issue on Regulation of the Photosynthetic Systems in honor of Tingyun Kuang. Photosynthesis Research, 2015, 126, 185-188.	2.9	1
33	RHON1 Mediates a Rho-Like Activity for Transcription Termination in Plastids of Arabidopsis thaliana Â Â. Plant Cell, 2015, 26, 4918-4932.	6.6	26
34	Identification and characterization of chloroplast casein kinase II from Oryza sativa (rice). Journal of Experimental Botany, 2015, 66, 175-187.	4.8	18
35	Tetrapyrrole biosynthetic enzyme protoporphyrinogen IX oxidase 1 is required for plastid RNA editing. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2023-2028.	7.1	120
36	Characterization of photosystem I in rice (Oryza sativa L.) seedlings upon exposure to random positioning machine. Photosynthesis Research, 2013, 116, 93-105.	2.9	9

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37	Chloroplast Small Heat Shock Protein HSP21 Interacts with Plastid Nucleoid Protein pTAC5 and Is Essential for Chloroplast Development in Arabidopsis under Heat Stress. Plant Cell, 2013, 25, 2925-2943.	6.6	208
38	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
39	Spectral and functional studies on siphonaxanthin-type light-harvesting complex of photosystem II from Bryopsis corticulans. Photosynthesis Research, 2013, 117, 267-279.	2.9	44
40	PSBP-DOMAIN PROTEIN1, a Nuclear-Encoded Thylakoid Lumenal Protein, Is Essential for Photosystem I Assembly in Arabidopsis Â. Plant Cell, 2013, 24, 4992-5006.	6.6	110
41	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
42	Comparative proteomic study reveals dynamic proteome changes between superhybrid rice LYP9 and its parents at different developmental stages. Journal of Plant Physiology, 2012, 169, 387-398.	3.5	34
43	Functional analysis of the rice rubisco activase promoter in transgenic Arabidopsis. Biochemical and Biophysical Research Communications, 2012, 418, 565-570.	2.1	12
44	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
45	The xanthophyll cycle and antioxidative defense system are enhanced in the wheat hybrid subjected to high light stress. Journal of Plant Physiology, 2011, 168, 1828-1836.	3.5	30
46	Characterization of photosystem II in transgenic tobacco plants with decreased iron superoxide dismutase. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 391-403.	1.0	28
47	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
48	The thylakoid protease Deg1 is involved in photosystem-II assembly in Arabidopsis thaliana. Plant Journal, 2010, 62, 240-249.	5.7	96
49	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
50	The Stromal Chloroplast Deg7 Protease Participates in the Repair of Photosystem II after Photoinhibition in Arabidopsis Â Â. Plant Physiology, 2010, 152, 1263-1273.	4.8	100
51	Cooperation of LPA3 and LPA2 Is Essential for Photosystem II Assembly in Arabidopsis Â Â. Plant Physiology, 2010, 154, 109-120.	4.8	37
52	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
53	Characterization of photosystem II photochemistry in transgenic tobacco plants with lowered Rubisco activase content. Journal of Plant Physiology, 2010, 167, 1457-1465.	3.5	13
54	The photosensitive phs1 mutant is impaired in the riboflavin biogenesis pathway. Journal of Plant Physiology, 2010, 167, 1466-1476.	3.5	21

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55	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
56	Genetic analysis of tolerance to photo-oxidative stress induced by high light in winter wheat (Triticum aestivum L.). Journal of Genetics and Genomics, 2010, 37, 399-412.	3.9	25
57	LPA66 Is Required for EditingpsbFChloroplast Transcripts in Arabidopsis Â Â. Plant Physiology, 2009, 150, 1260-1271.	4.8	104
58	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
59	Genetic engineering of the biosynthesis of glycinebetaine leads to increased tolerance of photosynthesis to salt stress in transgenic tobacco plants. Plant Molecular Biology, 2008, 66, 73-86.	3.9	155
60	Characterization of photosystem II in salt-stressed cyanobacterial Spirulina platensis cells. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 488-495.	1.0	52
61	Effects of heat stress on PSII photochemistry in a cyanobacterium Spirulina platensis. Plant Science, 2008, 175, 556-564.	3.6	39
62	The Pentratricopeptide Repeat Protein DELAYED GREENING1 Is Involved in the Regulation of Early Chloroplast Development and Chloroplast Gene Expression in Arabidopsis Â Â. Plant Physiology, 2008, 147, 573-584.	4.8	107
63	Formation of DEG5 and DEG8 Complexes and Their Involvement in the Degradation of Photodamaged Photosystem II Reaction Center D1 Protein in Arabidopsis. Plant Cell, 2007, 19, 1347-1361.	6.6	168
64	Characterization of photosynthesis of flag leaves in a wheat hybrid and its parents grown under field conditions. Journal of Plant Physiology, 2007, 164, 318-326.	3.5	34
65	Genetic engineering of the biosynthesis of glycinebetaine enhances thermotolerance of photosystem II in tobacco plants. Planta, 2007, 225, 719-733.	3.2	174
66	Photosynthetic light and CO2 utilization and C4 traits of two novel super-rice hybrids. Journal of Plant Physiology, 2006, 163, 529-537.	3.5	35
67	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. Plant Science, 2006, 171, 389-397.	3.6	113
68	Effects of exogenous glycinebetaine on growth, CO2 assimilation, and photosystem II photochemistry of maize plants. Physiologia Plantarum, 2006, 127, 593-602.	5.2	30
69	LOW PSII ACCUMULATION1 Is Involved in Efficient Assembly of Photosystem II in Arabidopsis thaliana. Plant Cell, 2006, 18, 955-969.	6.6	209
70	Heat stress induces an inhibition of excitation energy transfer from phycobilisomes to photosystem II but not to photosystem I in a cyanobacterium Spirulina platensis. Plant Physiology and Biochemistry, 2005, 43, 389-395.	5.8	38
71	Photosynthesis is improved by exogenous glycinebetaine in salt-stressed maize plants. Physiologia Plantarum, 2005, 124, 343-352.	5.2	186
72	Enhanced thermotolerance of photosystemï¿½II in salt-adapted plants of the halophyte Artemisia anethifolia. Planta, 2005, 220, 486-497.	3.2	79

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73	Genetic Engineering of the Biosynthesis of Glycinebetaine Enhances Photosynthesis against High Temperature Stress in Transgenic Tobacco Plants. Plant Physiology, 2005, 138, 2299-2309.	4.8	195
74	Heat stress induces a reversible inhibition of electron transport at the acceptor side of photosystem II in a cyanobacterium Spirulina platensis. Plant Science, 2005, 168, 1471-1476.	3.6	34
75	PSII photochemistry, thermal energy dissipation, and the xanthophyll cycle in KalanchoÃ« daigremontiana exposed to a combination of water stress and high light. Physiologia Plantarum, 2003, 118, 173-182.	5.2	24
76	Photoinhibition and the xanthophyll cycle are not enhanced in the salt-acclimated halophyte Artimisia anethifolia. Physiologia Plantarum, 2003, 118, 532-537.	5.2	14
77	Photosynthesis, photosystem II efficiency and the xanthophyll cycle in the saltâ€adapted halophyte Atriplex centralasiatica. New Phytologist, 2003, 159, 479-486.	7.3	175
78	Photosystem II photochemistry and photosynthetic pigment composition in salt-adapted halophyteArtimisia anethifolia grown under outdoor conditions. Journal of Plant Physiology, 2003, 160, 403-408.	3.5	53
79	Salinity treatment shows no effects on photosystem II photochemistry, but increases the resistance of photosystem II to heat stress in halophyte Suaeda salsa. Journal of Experimental Botany, 2003, 54, 851-860.	4.8	198
80	Photosynthesis and chlorophyllafluorescence during flag leaf senescence of field-grown wheat plants. Journal of Plant Physiology, 2002, 159, 1173-1178.	3.5	72
81	Does salt stress lead to increased susceptibility of photosystem II to photoinhibition and changes in photosynthetic pigment composition in halophyte Suaeda salsa grown outdoors?. Plant Science, 2002, 163, 1063-1068.	3.6	124
82	Effects of salinity stress on photosystem II function in cyanobacterial Spirulina platensis cells. Physiologia Plantarum, 2002, 114, 405-413.	5.2	179
83	Role of light in the response of PSII photochemistry to salt stress in the cyanobacterium Spirulina platensis. Journal of Experimental Botany, 2000, 51, 911-917.	4.8	36
84	Characterization of PSII photochemistry in saltâ€adapted cells of cyanobacterium Spirulina platensis. New Phytologist, 1999, 141, 231-239.	7.3	88
85	Title is missing!. Journal of Applied Phycology, 1999, 11, 355-359.	2.8	56
86	Kinetic response of photosystem II photochemistry in the cyanobacterium Spirulina platensis to high salinity is characterized by two distinct phases. Functional Plant Biology, 1999, 26, 283.	2.1	27
87	Effects of water stress on photosystem II photochemistry and its thermostability in wheat plants. Journal of Experimental Botany, 1999, 50, 1199-1206.	4.8	272
88	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
89	Inhibition of quantum yield of PS II electron transport in Spirulina platensis by osmotic stress may be explained mainly by an increase in the proportion of the QB-non-reducing PS II reaction centres. Functional Plant Biology, 1998, 25, 689.	2.1	14
90	Effects of water stress on photosynthesis, chlorophyll fluorescence and photoinhibition in wheat plants. Functional Plant Biology, 1998, 25, 883.	2.1	99

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91	Thermostability of photosystem II is increased in salt-stressed sorghum. Functional Plant Biology, 1998, 25, 317.	2.1	43