

Mingnan Qu

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

6,323
citations

393982

19
h-index

276539

41
g-index

42
all docs

42
docs citations

42
times ranked

6353
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving Photosynthetic Efficiency for Greater Yield. <i>Annual Review of Plant Biology</i> , 2010, 61, 235-261.	8.6	1,410
2	Can improvement in photosynthesis increase crop yields?. <i>Plant, Cell and Environment</i> , 2006, 29, 315-330.	2.8	1,236
3	What is the maximum efficiency with which photosynthesis can convert solar energy into biomass?. <i>Current Opinion in Biotechnology</i> , 2008, 19, 153-159.	3.3	897
4	Meeting the Global Food Demand of the Future by Engineering Crop Photosynthesis and Yield Potential. <i>Cell</i> , 2015, 161, 56-66.	13.5	755
5	Raising yield potential of wheat. II. Increasing photosynthetic capacity and efficiency. <i>Journal of Experimental Botany</i> , 2011, 62, 453-467.	2.4	511
6	A meta-analysis of elevated [CO ₂] effects on soybean (<i>Glycine max</i>) physiology, growth and yield. <i>Global Change Biology</i> , 2002, 8, 695-709.	4.2	426
7	The slow reversibility of photosystem II thermal energy dissipation on transfer from high to low light may cause large losses in carbon gain by crop canopies: a theoretical analysis. <i>Journal of Experimental Botany</i> , 2004, 55, 1167-1175.	2.4	258
8	Leaf Photosynthetic Parameters Related to Biomass Accumulation in a Global Rice Diversity Survey. <i>Plant Physiology</i> , 2017, 175, 248-258.	2.3	85
9	Elements of a dynamic systems model of canopy photosynthesis. <i>Current Opinion in Plant Biology</i> , 2012, 15, 237-244.	3.5	83
10	The impact of modifying photosystem antenna size on canopy photosynthetic efficiency—Development of a new canopy photosynthesis model scaling from metabolism to canopy level processes. <i>Plant, Cell and Environment</i> , 2017, 40, 2946-2957.	2.8	81
11	Rapid stomatal response to fluctuating light: an under-explored mechanism to improve drought tolerance in rice. <i>Functional Plant Biology</i> , 2016, 43, 727.	1.1	68
12	Changes in the photosynthesis properties and photoprotection capacity in rice (<i>Oryza sativa</i>) grown under red, blue, or white light. <i>Photosynthesis Research</i> , 2019, 139, 107-121.	1.6	54
13	Cyclic electron flow may provide some protection against PSII photoinhibition in rice (<i>Oryza sativa</i> L.) leaves under heat stress. <i>Journal of Plant Physiology</i> , 2017, 211, 138-146.	1.6	39
14	A three-dimensional canopy photosynthesis model in rice with a complete description of the canopy architecture, leaf physiology, and mechanical properties. <i>Journal of Experimental Botany</i> , 2019, 70, 2479-2490.	2.4	36
15	Variations between the photosynthetic properties of elite and landrace Chinese rice cultivars revealed by simultaneous measurements of 820 nm transmission signal and chlorophyll a fluorescence induction. <i>Journal of Plant Physiology</i> , 2015, 177, 128-138.	1.6	35
16	Combined Proteomics and Metabolism Analysis Unravels Prominent Roles of Antioxidant System in the Prevention of Alfalfa (<i>Medicago sativa</i> L.) against Salt Stress. <i>International Journal of Molecular Sciences</i> , 2020, 21, 909.	1.8	34
17	Systematic biology analysis on photosynthetic carbon metabolism of maize leaf following sudden heat shock under elevated CO ₂ . <i>Scientific Reports</i> , 2018, 8, 7849.	1.6	28
18	Alterations in stomatal response to fluctuating light increase biomass and yield of rice under drought conditions. <i>Plant Journal</i> , 2020, 104, 1334-1347.	2.8	26

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19	Proteome dynamics and physiological responses to short-term salt stress in <i>Leymus chinensis</i> leaves. <i>PLoS ONE</i> , 2017, 12, e0183615.	1.1	25
20	Response of Chloroplast NAD(P)H Dehydrogenase-Mediated Cyclic Electron Flow to a Shortage or Lack in Ferredoxin-Quinone Oxidoreductase-Dependent Pathway in Rice Following Short-Term Heat Stress. <i>Frontiers in Plant Science</i> , 2016, 7, 383.	1.7	22
21	Overexpression of maize transcription factor mEmBP-1 increases photosynthesis, biomass, and yield in rice. <i>Journal of Experimental Botany</i> , 2020, 71, 4944-4957.	2.4	22
22	Natural variation in the fast phase of chlorophyll a fluorescence induction curve (OJIP) in a global rice minicore panel. <i>Photosynthesis Research</i> , 2021, 150, 137-158.	1.6	20
23	Systems model-guided rice yield improvements based on genes controlling source, sink, and flow. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 1154-1180.	4.1	19
24	ePlant for quantitative and predictive plant science research in the big data era – Lay the foundation for the future model guided crop breeding, engineering and agronomy. <i>Quantitative Biology</i> , 2017, 5, 260-271.	0.3	18
25	Genome-wide association study identifies variation of glucosidase being linked to natural variation of the maximal quantum yield of photosystem II. <i>Physiologia Plantarum</i> , 2019, 166, 105-119.	2.6	17
26	Proteome and transcriptome reveal the involvement of heat shock proteins and antioxidant system in thermotolerance of <i>Clematis florida</i> . <i>Scientific Reports</i> , 2020, 10, 8883.	1.6	15
27	Knocking out <i>NEGATIVE REGULATOR OF PHOTOSYNTHESIS 1</i> increases rice leaf photosynthesis and biomass production in the field. <i>Journal of Experimental Botany</i> , 2021, 72, 1836-1849.	2.4	12
28	An attempt to interpret a biochemical mechanism of C4 photosynthetic thermo-tolerance under sudden heat shock on detached leaf in elevated CO ₂ grown maize. <i>PLoS ONE</i> , 2017, 12, e0187437.	1.1	12
29	Dissection of mechanisms for high yield in two elite rice cultivars. <i>Field Crops Research</i> , 2019, 241, 107563.	2.3	10
30	Compositional and structural changes in soil microbial communities in response to straw mulching and plant revegetation in an abandoned artificial pasture in Northeast China. <i>Global Ecology and Conservation</i> , 2021, 31, e01871.	1.0	10
31	Genome-wide investigation of the PLD gene family in alfalfa (<i>Medicago sativa</i> L.): identification, analysis and expression. <i>BMC Genomics</i> , 2022, 23, 243.	1.2	10
32	Roles of heat shock protein and reprogramming of photosynthetic carbon metabolism in thermotolerance under elevated CO ₂ in maize. <i>Environmental and Experimental Botany</i> , 2019, 168, 103869.	2.0	9
33	Photosynthetic and transcriptomic responses of two C4 grass species with different NaCl tolerance. <i>Journal of Plant Physiology</i> , 2020, 253, 153244.	1.6	7
34	Nitrogen assimilation and gene regulation of two Kentucky bluegrass cultivars differing in response to nitrate supply. <i>Scientia Horticulturae</i> , 2021, 288, 110315.	1.7	7
35	Genome-Wide Association Study Unravels LRK1 as a Dark Respiration Regulator in Rice (<i>Oryza sativa</i> L.). <i>International Journal of Molecular Sciences</i> , 2020, 21, 4930.	1.8	6
36	Wood vinegar for control of broadleaf weeds in dormant turfgrass. <i>Weed Technology</i> , 2021, 35, 901-907.	0.4	6

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37	Evaluation on reprogramed biological processes in transgenic maize varieties using transcriptomics and metabolomics. <i>Scientific Reports</i> , 2021, 11, 2050.	1.6	4
38	Diurnal and Seasonal Variations of Photosynthetic Energy Conversion Efficiency of Field Grown Wheat. <i>Frontiers in Plant Science</i> , 2022, 13, 817654.	1.7	3
39	DBN wavelet transform denoising method in soybean straw composition based on near-infrared rapid detection. <i>Journal of Real-Time Image Processing</i> , 2017, 13, 613-626.	2.2	2
40	Analytical dataset of short-term heat stress induced reshuffling of metabolism and transcriptomes in maize grown under elevated CO ₂ . <i>Data in Brief</i> , 2020, 28, 105004.	0.5	2
41	Celebrating the contributions of Govindjee after his retirement: 1999â€“2020. <i>New Zealand Journal of Botany</i> , 2020, 58, 422-460.	0.8	2