

Deqiang Duanmu

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,362
citations

516561

16
h-index

434063

31
g-index

32
all docs

32
docs citations

32
times ranked

1792
citing authors

#	ARTICLE	IF	CITATIONS
1	Eukaryotic algal phytochromes span the visible spectrum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3871-3876.	3.3	153
2	Carbon dioxide concentrating mechanism in <i>Chlamydomonas reinhardtii</i> : inorganic carbon transport and CO ₂ recapture. <i>Photosynthesis Research</i> , 2011, 109, 115-122.	1.6	112
3	Marine algae and land plants share conserved phytochrome signaling systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15827-15832.	3.3	108
4	Retrograde bilin signaling enables <i>Chlamydomonas</i> greening and phototrophic survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3621-3626.	3.3	107
5	Knockdown of limiting-CO ₂ -induced gene <i>HLA3</i> decreases HCO ₃ ⁻ transport and photosynthetic Ci affinity in <i>Chlamydomonas reinhardtii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5990-5995.	3.3	102
6	<i>NODULES WITH ACTIVATED DEFENSE 1</i> is required for maintenance of rhizobial endosymbiosis in <i>Medicago truncatula</i> . <i>New Phytologist</i> , 2016, 212, 176-191.	3.5	90
7	Genome Editing in Cowpea <i>Vigna unguiculata</i> Using CRISPR-Cas9. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2471.	1.8	85
8	Efficient Inactivation of Symbiotic Nitrogen Fixation Related Genes in <i>Lotus japonicus</i> Using CRISPR-Cas9. <i>Frontiers in Plant Science</i> , 2016, 7, 1333.	1.7	83
9	CRISPR/Cas9 knockout of leghemoglobin genes in <i>Lotus japonicus</i> uncovers their synergistic roles in symbiotic nitrogen fixation. <i>New Phytologist</i> , 2019, 224, 818-832.	3.5	64
10	Thylakoid Lumen Carbonic Anhydrase (<i>CAH3</i>) Mutation Suppresses Air-Dier Phenotype of <i>LCIB</i> Mutant in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2009, 149, 929-937.	2.3	61
11	Using <i>Amaranthus</i> green proteins as universal biosurfactant and biosorbent for effective enzymatic degradation of diverse lignocellulose residues and efficient multiple trace metals remediation of farming lands. <i>Journal of Hazardous Materials</i> , 2021, 406, 124727.	6.5	56
12	Suppression of innate immunity mediated by the CDPK ϵ complex is required for rhizobial colonization in <i>Medicago truncatula</i> nodules. <i>New Phytologist</i> , 2018, 220, 425-434.	3.5	53
13	Algal light sensing and photoacclimation in aquatic environments. <i>Plant, Cell and Environment</i> , 2017, 40, 2558-2570.	2.8	46
14	Natural variation at <i>OsCERK1</i> regulates arbuscular mycorrhizal symbiosis in rice. <i>New Phytologist</i> , 2020, 225, 1762-1776.	3.5	43
15	Bilin-Dependent Photoacclimation in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2017, 29, 2711-2726.	3.1	36
16	Use of CRISPR/Cas9 for Symbiotic Nitrogen Fixation Research in Legumes. <i>Progress in Molecular Biology and Translational Science</i> , 2017, 149, 187-213.	0.9	24
17	Overexpression of particular MADS-box transcription factors in heat-stressed plants induces chloroplast biogenesis in petals. <i>Plant, Cell and Environment</i> , 2019, 42, 1545-1560.	2.8	19
18	A C ₃ H ₄ -type RING finger protein regulates rhizobial infection and nodule organogenesis in <i>Lotus japonicus</i> . <i>Journal of Integrative Plant Biology</i> , 2018, 60, 878-896.	4.1	18

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19	Bilin-dependent regulation of chlorophyll biosynthesis by GUN4. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
20	Single cell-type transcriptome profiling reveals genes that promote nitrogen fixation in the infected and uninfected cells of legume nodules. Plant Biotechnology Journal, 2022, 20, 616-618.	4.1	15
21	Characterization of Ferredoxin-Dependent Biliverdin Reductase PCYA1 Reveals the Dual Function in Retrograde Bilin Biosynthesis and Interaction With Light-Dependent Protochlorophyllide Oxidoreductase LPOR in Chlamydomonas reinhardtii. Frontiers in Plant Science, 2018, 9, 676.	1.7	11
22	Insertional suppressors of Chlamydomonas reinhardtii that restore growth of air-dier lcib mutants in low CO ₂ . Photosynthesis Research, 2011, 109, 123-132.	1.6	9
23	Molecular Characterization of Carbonic Anhydrase Genes in Lotus japonicus and Their Potential Roles in Symbiotic Nitrogen Fixation. International Journal of Molecular Sciences, 2021, 22, 7766.	1.8	9
24	Dephosphorylation of LjMPK6 by Phosphatase LjPP2C is Involved in Regulating Nodule Organogenesis in Lotus japonicus. International Journal of Molecular Sciences, 2020, 21, 5565.	1.8	8
25	Structural basis of bilin binding by the chlorophyll biosynthesis regulator <scp>GUN4</scp>. Protein Science, 2021, 30, 2083-2091.	3.1	6
26	A novel activation domain is essential for CIA5-mediated gene regulation in response to CO ₂ changes in Chlamydomonas reinhardtii. Algal Research, 2017, 24, 207-217.	2.4	5
27	Highly Efficient CRISPR-Mediated Base Editing in Sinorhizobium meliloti. Frontiers in Microbiology, 2021, 12, 686008.	1.5	5
28	Expansion of bilin-based red light sensors in the subaerial desert cyanobacterium <i>Nostoc flagelliforme</i>. Environmental Microbiology, 2022, 24, 2047-2058.	1.8	5
29	A Dihydroflavonol-4-Reductase-Like Protein Interacts with NFR5 and Regulates Rhizobial Infection in <i>Lotus japonicus</i>. Molecular Plant-Microbe Interactions, 2019, 32, 401-412.	1.4	4
30	Three classes of hemoglobins are required for optimal vegetative and reproductive growth of <i>Lotus japonicus</i>: genetic and biochemical characterization of LjGlb2-1. Journal of Experimental Botany, 2021, 72, 7778-7791.	2.4	4
31	Photosynthesis in Chlamydomonas reinhardtii: What We Have Learned So Far?. , 2020, , 121-136.		2
32	The HLA3 Protein of C. Reinhardtii Enhances HCO ₃ ⁻ Transport Activity of Mammalian Cells. Biophysical Journal, 2017, 112, 571a.	0.2	1