Chuan-Zao Mao

List of Publications by Year
in descending order

51 papers	3,208 citations	126907 33 h-index	189892 50 g-index
52 all docs	52 docs citations	52 times ranked	3417 citing authors

#	Article	IF	Citations
1	Rice SPX1 and SPX2 inhibit phosphate starvation responses through interacting with PHR2 in a phosphate-dependent manner. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14953-14958.	7.1	335
2	SPX4 Negatively Regulates Phosphate Signaling and Homeostasis through Its Interaction with PHR2 in Rice Â. Plant Cell, 2014, 26, 1586-1597.	6.6	256
3	Molecular Mechanisms of Root Development in Rice. Rice, 2019, 12, 1.	4.0	170
4	The role of OsPT8 in arsenate uptake and varietal difference in arsenate tolerance in rice. Journal of Experimental Botany, 2016, 67, 6051-6059.	4.8	158
5	Integrative Comparison of the Role of the PHOSPHATE RESPONSE1 Subfamily in Phosphate Signaling and Homeostasis in Rice. Plant Physiology, 2015, 168, 1762-1776.	4.8	152
6	Molecular mechanisms of phosphate transport and signaling in higher plants. Seminars in Cell and Developmental Biology, 2018, 74, 114-122.	5.0	122
7	A Gain-of-Function Mutation in OsIAA11 Affects Lateral Root Development in Rice. Molecular Plant, 2012, 5, 154-161.	8.3	114
8	OsEIL1, a Rice Homolog of the Arabidopsis EIN3 Regulates the Ethylene Response as a Positive Component. Plant Molecular Biology, 2006, 61, 141-152.	3.9	106
9	Rice SPX6 negatively regulates the phosphate starvation response through suppression of the transcription factor PHR2. New Phytologist, 2018, 219, 135-148.	7.3	97
10	OsCYT-INV1 for alkaline/neutral invertase is involved in root cell development and reproductivity in rice (Oryza sativa L.). Planta, 2008, 228, 51-59.	3.2	96
11	OsSPL3, an SBP-Domain Protein, Regulates Crown Root Development in Rice. Plant Cell, 2019, 31, 1257-1275.	6.6	95
12	Overexpression of a NACâ€domain protein promotes shoot branching in rice. New Phytologist, 2007, 176, 288-298.	7.3	93
13	Identification of aluminium-regulated genes by cDNA-AFLP in rice (Oryza sativa L.): aluminium-regulated genes for the metabolism of cell wall components. Journal of Experimental Botany, 2003, 55, 137-143.	4.8	80
14	OsCAND1 Is Required for Crown Root Emergence in Rice. Molecular Plant, 2011, 4, 289-299.	8.3	75
15	OsCLT1, a CRTâ€like transporter 1, is required for glutathione homeostasis and arsenic tolerance in rice. New Phytologist, 2016, 211, 658-670.	7.3	75
16	Abscisic Acid Regulates Auxin Homeostasis in Rice Root Tips to Promote Root Hair Elongation. Frontiers in Plant Science, 2017, 8, 1121.	3.6	75
17	Rice NINâ€LIKE PROTEIN 4 plays a pivotal role in nitrogen use efficiency. Plant Biotechnology Journal, 2021, 19, 448-461.	8.3	72
18	LARGE ROOT ANGLE1, encoding OsPIN2, is involved in root system architecture in rice. Journal of Experimental Botany, 2018, 69, 385-397.	4.8	70

#	Article	IF	Citations
19	OsFTIP7 determines auxin-mediated anther dehiscence in rice. Nature Plants, 2018, 4, 495-504.	9.3	63
20	OsFTIP1-Mediated Regulation of Florigen Transport in Rice Is Negatively Regulated by the Ubiquitin-Like Domain Kinase OsUbDKÎ³4. Plant Cell, 2017, 29, 491-507.	6.6	55
21	SPX4 Acts on PHR1-Dependent and -Independent Regulation of Shoot Phosphorus Status in Arabidopsis. Plant Physiology, 2019, 181, 332-352.	4.8	54
22	Genetic manipulation of a high-affinity PHR1 target cis-element to improve phosphorous uptake in Oryza sativa L.. Plant Molecular Biology, 2015, 87, 429-440.	3.9	53
23	Functional Divergence of PIN1 Paralogous Genes in Rice. Plant and Cell Physiology, 2019, 60, 2720-2732.	3.1	53
24	The Predicted <i>Arabidopsis</i> Interactome Resource and Network Topology-Based Systems Biology Analyses Â. Plant Cell, 2011, 23, 911-922.	6.6	49
25	Phosphate Uptake and Transport in Plants: An Elaborate Regulatory System. Plant and Cell Physiology, 2021, 62, 564-572.	3.1	49
26	The YDA-MKK4/MKK5-MPK3/MPK6 Cascade Functions Downstream of the RGF1-RGI Ligandâ€"Receptor Pair in Regulating Mitotic Activity in Root Apical Meristem. Molecular Plant, 2020, 13, 1608-1623.	8.3	49
27	PROTEIN PHOSPHATASE95 Regulates Phosphate Homeostasis by Affecting Phosphate Transporter Trafficking in Rice. Plant Cell, 2020, 32, 740-757.	6.6	47
28	Molecular cloning and characterization of OsCHR4, a rice chromatin-remodeling factor required for early chloroplast development in adaxial mesophyll. Planta, 2012, 236, 1165-1176.	3.2	46
29	Two h-Type Thioredoxins Interact with the E2 Ubiquitin Conjugase PHO2 to Fine-Tune Phosphate Homeostasis in Rice. Plant Physiology, 2017, 173, 812-824.	4.8	46
30	<i>Os<scp>ORC</scp>3</i> is required for lateral root development in rice. Plant Journal, 2013, 74, 339-350.	5.7	45
31	OsPIN9, an auxin efflux carrier, is required for the regulation of rice tiller bud outgrowth by ammonium. New Phytologist, 2021, 229, 935-949.	7.3	43
32	SPX proteins regulate Pi homeostasis and signaling in different subcellular level. Plant Signaling and Behavior, 2015, 10, e1061163.	2.4	39
33	Identification of a novel mitochondrial protein, short postembryonic roots 1 (SPR1), involved in root development and iron homeostasis in <i>Oryza sativa</i>. New Phytologist, 2011, 189, 843-855.	7.3	36
34	LIGHT-INDUCED RICE1 Regulates Light-Dependent Attachment of LEAF-TYPE FERREDOXIN-NADP⁺ OXIDOREDUCTASE to the Thylakoid Membrane in Rice and Arabidopsis. Plant Cell, 2016, 28, 712-728.	6.6	23
35	CRD 1, an Xpo1 domain protein, regulates mi RNA accumulation and crown root development in rice. Plant Journal, 2019, 100, 328-342.	5.7	23
36	OsbHLH6 interacts with OsSPX4 and regulates the phosphate starvation response in rice. Plant Journal, 2021, 105, 649-667.	5.7	23

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37	CASEIN KINASE2-Dependent Phosphorylation of PHOSPHATE2 Fine-tunes Phosphate Homeostasis in Rice. Plant Physiology, 2020, 183, 250-262.	4.8	22
38	Cadmium Inhibits Lateral Root Emergence in Rice by Disrupting OsPIN-Mediated Auxin Distribution and the Protective Effect of OsHMA3. Plant and Cell Physiology, 2021, 62, 166-177.	3.1	21
39	Characterization of the rice NLA family reveals a key role for OsNLA1 in phosphate homeostasis. Rice, 2017, 10, 52.	4.0	19
40	GIPS: A Software Guide to Sequencing-Based Direct Gene Cloning in Forward Genetics Studies. Plant Physiology, 2016, 170, 1929-1934.	4.8	18
41	Molecular control and genetic improvement of phosphorus use efficiency in rice. Molecular Breeding, 2019, 39, 1.	2.1	17
42	A phosphate-starvation induced RING-type E3 ligase maintains phosphate homeostasis partially through OsSPX2 in rice. Plant and Cell Physiology, 2018, 59, 2564-2575.	3.1	14
43	<i>OsbHLH98</i> regulates leaf angle in rice through transcriptional repression of <i>OsBUL1</i>. New Phytologist, 2021, 230, 1953-1966.	7.3	14
44	Predicted Arabidopsis Interactome Resource and Gene Set Linkage Analysis: A Transcriptomic Analysis Resource. Plant Physiology, 2018, 177, 422-433.	4.8	11
45	Comparative mapping of QTLs for Al tolerance in rice and identification of positional Al-induced genes. Journal of Zhejiang University Science B, 2004, 5, 634-43.	0.4	11
46	Lateral roots but not root hairs contribute to high uptake of manganese and cadmium in rice. Journal of Experimental Botany, 2021, 72, 7219-7228.	4.8	9
47	Rootâ€secreted peptide OsPEP1 regulates primary root elongation in rice. Plant Journal, 2021, 107, 480-492.	5.7	7
48	Interactions among rice ORC subunits. Plant Signaling and Behavior, 2013, 8, e25007.	2.4	3
49	Functional redundancy of <i>OsPIN1</i> paralogous genes in regulating plant growth and development in rice. Plant Signaling and Behavior, 2022, 17, 2065432.	2.4	3
50	VAP-RELATED SUPPRESSORS OF TOO MANY MOUTHS (VST) family proteins are regulators of root system architecture. Plant Physiology, 2021, 185, 457-468.	4.8	2
51	Progress on methods for acquiring flanking genomic sequence.. Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji, 2022, 44, 313-321.	0.2	0