Chuang Wang

List of Publications by Year
in descending order

32 papers	2,047 citations	430874 18 h-index	434195 31 g-index
33 all docs	33 docs citations	33 times ranked	2499 citing authors

#	Article	IF	Citations
1	Rice <scp>ACID PHOSPHATASE</scp> 1 regulates Pi stress adaptation by maintaining intracellular Pi homeostasis. Plant, Cell and Environment, 2022, 45, 191-205.	5.7	19
2	Genetic Control of Seed Phytate Accumulation and the Development of Low-Phytate Crops: A Review and Perspective. Journal of Agricultural and Food Chemistry, 2022, 70, 3375-3390.	5.2	3
3	Local and systemic responses conferring acclimation of <i>Brassica napus</i> roots to low phosphorus conditions. Journal of Experimental Botany, 2022, 73, 4753-4777.	4.8	9
4	Genome-wide analysis of haloacid dehalogenase genes reveals their function in phosphate starvation responses in rice. PLoS ONE, 2021, 16, e0245600.	2.5	5
5	Inhibition of nitric oxide production under alkaline conditions regulates iron homeostasis in rice. Physiologia Plantarum, 2021, 172, 1465-1476.	5.2	6
6	High level of zinc triggers phosphorus starvation by inhibiting root-to-shoot translocation and preferential distribution of phosphorus in rice plants. Environmental Pollution, 2021, 277, 116778.	7.5	18
7	Boron deficiencyâ€induced root growth inhibition is mediated by brassinosteroid signalling regulation in Arabidopsis. Plant Journal, 2021, 107, 564-578.	5.7	16
8	Genome-wide association study dissects the genetic control of plant height and branch number in response to low-phosphorus stress in <i>Brassica napus</i>. Annals of Botany, 2021, 128, 919-930.	2.9	17
9	Integrating a genome-wide association study with transcriptomic data to predict candidate genes and favourable haplotypes influencing <i>Brassica napus</i> seed phytate. DNA Research, 2021, 28, .	3.4	14
10	The rapeseed genotypes with contrasting NUE response discrepantly to varied provision of ammonium and nitrate by regulating photosynthesis, root morphology, nutritional status, and oxidative stress response. Plant Physiology and Biochemistry, 2021, 166, 348-360.	5.8	15
11	Improved the Activity of Phosphite Dehydrogenase and its Application in Plant Biotechnology. Frontiers in Bioengineering and Biotechnology, 2021, 9, 764188.	4.1	1
12	Dynamic transcriptome analysis indicates extensive and discrepant transcriptomic reprogramming of two rapeseed genotypes with contrasting NUE in response to nitrogen deficiency. Plant and Soil, 2020, 456, 369-390.	3.7	6
13	A Na2CO3-Responsive Chitinase Gene From Leymus chinensis Improve Pathogen Resistance and Saline-Alkali Stress Tolerance in Transgenic Tobacco and Maize. Frontiers in Plant Science, 2020, 11, 504.	3.6	21
14	Purple acid phosphatase 10c encodes a major acid phosphatase that regulates plant growth under phosphate-deficient conditions in rice. Journal of Experimental Botany, 2020, 71, 4321-4332.	4.8	48
15	Roles of Soybean Plasma Membrane Intrinsic Protein GmPIP2;9 in Drought Tolerance and Seed Development. Frontiers in Plant Science, 2018, 9, 530.	3.6	37
16	Os<scp>NLA</scp>1, a <scp>RING</scp>â€type ubiquitin ligase, maintains phosphate homeostasis in <i>Oryza sativa</i> via degradation of phosphate transporters. Plant Journal, 2017, 90, 1040-1051.	5.7	68
17	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
18	Molecular interaction between PHO2 and GIGANTEA reveals a new crosstalk between flowering time and phosphate homeostasis in <scp><i>Oryza sativa</i></scp>. Plant, Cell and Environment, 2017, 40, 1487-1499.	5.7	49

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19	OsPAP26 Encodes a Major Purple Acid Phosphatase and Regulates Phosphate Remobilization in Rice. Plant and Cell Physiology, 2017, 58, 885-892.	3.1	49
20	<i>OsPAP10c</i>, a novel secreted acid phosphatase in rice, plays an important role in the utilization of external organic phosphorus. Plant, Cell and Environment, 2016, 39, 2247-2259.	5.7	85
21	Stress induced gene expression drives transient DNA methylation changes at adjacent repetitive elements. ELife, 2015, 4, .	6.0	285
22	OsSPX-MFS3, a vacuolar phosphate efflux transporter, is involved in maintaining Pi homeostasis in rice. Plant Physiology, 2015, 169, pp.01005.2015.	4.8	109
23	Molecular identification and characterization of the pyruvate decarboxylase gene family associated with latex regeneration and stress response in rubber tree. Plant Physiology and Biochemistry, 2015, 87, 35-44.	5.8	18
24	Constitutive overexpression of soybean plasma membrane intrinsic protein GmPIP1;6 confers salt tolerance. BMC Plant Biology, 2014, 14, 181.	3.6	80
25	Mutation in xyloglucan 6-xylosytransferase results in abnormal root hair development in Oryza sativa. Journal of Experimental Botany, 2014, 65, 4149-4157.	4.8	52
26	Oxygen deficit alleviates phosphate overaccumulation toxicity in OsPHR2 overexpression plants. Journal of Plant Research, 2014, 127, 433-440.	2.4	9
27	Overexpression of <i>OsPAP10a</i>, A Rootâ€Associated Acid Phosphatase, Increased Extracellular Organic Phosphorus Utilization in Rice. Journal of Integrative Plant Biology, 2012, 54, 631-639.	8.5	88
28	Functional characterization of the rice <i>SPXâ€MFS</i> family reveals a key role of <i>OsSPXâ€MFS1</i> in controlling phosphate homeostasis in leaves. New Phytologist, 2012, 196, 139-148.	7.3	139
29	The emerging importance of the SPX domainâ€containing proteins in phosphate homeostasis. New Phytologist, 2012, 193, 842-851.	7.3	269
30	Phosphate homeostasis in the yeast <i>Saccharomyces cerevisiae</i>, the key role of the SPX domainâ€containing proteins. FEBS Letters, 2012, 586, 289-295.	2.8	140
31	Ethylene is involved in the regulation of iron homeostasis by regulating the expression of iron-acquisition-related genes in Oryza sativa. Journal of Experimental Botany, 2011, 62, 667-674.	4.8	94
32	Involvement of <i>OsSPX1</i> in phosphate homeostasis in rice. Plant Journal, 2009, 57, 895-904.	5.7	228