Zhi-Jian Chen

List of Publications by Year
in descending order

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Version: 2024-02-01

		687363	752698
21	744	13	20
papers	citations	h-index	g-index

21	21	21	658
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advances in the Mechanisms of Plant Tolerance to Manganese Toxicity. International Journal of Molecular Sciences, 2019, 20, 5096.	4.1	111
2	Malate Synthesis and Secretion Mediated by a Manganese-Enhanced Malate Dehydrogenase Confers Superior Manganese Tolerance in Stylosanthes guianensis Â. Plant Physiology, 2014, 167, 176-188.	4.8	92
3	Characterization of purple acid phosphatases involved in extracellular dNTP utilization inStylosanthes. Journal of Experimental Botany, 2016, 67, 4141-4154.	4.8	72
4	SPX1 is an important component in the phosphorus signalling network of common bean regulating root growth and phosphorus homeostasis. Journal of Experimental Botany, 2014, 65, 3299-3310.	4.8	57
5	Identification of differentially expressed proteins in soybean nodules under phosphorus deficiency through proteomic analysis. Proteomics, 2011, 11, 4648-4659.	2.2	56
6	Proteomic analysis reveals growth inhibition of soybean roots by manganese toxicity is associated with alteration of cell wall structure and lignification. Journal of Proteomics, 2016, 143, 151-160.	2.4	51
7	Superior aluminium (Al) tolerance of Stylosanthes is achieved mainly by malate synthesis through an Alâ€enhanced malic enzyme, Sg<scp>ME</scp>1. New Phytologist, 2014, 202, 209-219.	7.3	41
8	A rootâ€associated purple acid phosphatase, SgPAP23, mediates extracellular phytateâ€P utilization in <scp>Stylosanthes guianensis</scp>. Plant, Cell and Environment, 2018, 41, 2821-2834.	5.7	39
9	Physiological responses and proteomic changes reveal insights into Stylosanthes response to manganese toxicity. BMC Plant Biology, 2019, 19, 212.	3.6	38
10	Metabolic alterations provide insights into Stylosanthes roots responding to phosphorus deficiency. BMC Plant Biology, 2020, 20, 85.	3.6	38
11	Genome-Wide Identification, Expression, and Functional Analysis of the Sugar Transporter Gene Family in Cassava (Manihot esculenta). International Journal of Molecular Sciences, 2018, 19, 987.	4.1	30
12	Physiological and transcriptomic analyses reveal the roles of secondary metabolism in the adaptive responses of Stylosanthes to manganese toxicity. BMC Genomics, 2020, 21, 861.	2.8	19
13	A phosphate starvation responsive malate dehydrogenase, GmMDH12 mediates malate synthesis and nodule size in soybean (Glycine max). Environmental and Experimental Botany, 2021, 189, 104560.	4.2	17
14	Differential expressions and enzymatic properties of malate dehydrogenases in response to nutrient and metal stresses in Stylosanthes guianensis. Plant Physiology and Biochemistry, 2022, 170, 325-337.	5.8	16
15	Alterations of growth, antioxidant system and gene expression in Stylosanthes guianensis during Colletotrichum gloeosporioides infection. Plant Physiology and Biochemistry, 2017, 118, 256-266.	5.8	15
16	Phosphorus Fractions of Red Soils in Guangdong Province of South China and Their Bioavailability for Five Crop Species. Soil Science, 2014, 179, 514-521.	0.9	12
17	Characterization of Metal Tolerance Proteins and Functional Analysis of GmMTP8.1 Involved in Manganese Tolerance in Soybean. Frontiers in Plant Science, 2021, 12, 683813.	3.6	12
18	Physiological responses and transcriptomic changes reveal the mechanisms underlying adaptation of Stylosanthes guianensis to phosphorus deficiency. BMC Plant Biology, 2021, 21, 466.	3.6	10

#	Article	IF	Citations
19	Improvement of plant regeneration and <i>Agrobacterium</i>-mediated genetic transformation of <i>Stylosanthes guianensis</i>. Tropical Grasslands - Forrajes Tropicales, 2019, 7, 480-492.	0.5	9
20	Encapsulation of a Desmodium intortum Protein Isolate Pickering Emulsion of Î²-Carotene: Stability, Bioaccesibility and Cytotoxicity. Foods, 2022, 11, 936.	4.3	9
21	Mechanism of manganese uptake and homeostasis in plant cell. , 2022, , 227-246.		0