Ren-Jie Tang

List of Publications by Year
in descending order

34 papers	1,896 citations	304743 22 h-index	345221 36 g-index
36 all docs	36 docs citations	36 times ranked	2265 citing authors

#	Article	IF	Citations
1	Tonoplast CBLâ€“CIPK calcium signaling network regulates magnesium homeostasis in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3134-3139.	7.1	208
2	The CBLâ€“CIPK Calcium Signaling Network: Unified Paradigm from 20 Years of Discoveries. Trends in Plant Science, 2020, 25, 604-617.	8.8	181
3	Regulation of calcium and magnesium homeostasis in plants: from transporters to signaling network. Current Opinion in Plant Biology, 2017, 39, 97-105.	7.1	170
4	Tonoplast calcium sensors CBL2 and CBL3 control plant growth and ion homeostasis through regulating V-ATPase activity in Arabidopsis. Cell Research, 2012, 22, 1650-1665.	12.0	168
5	The woody plant poplar has a functionally conserved salt overly sensitive pathway in response to salinity stress. Plant Molecular Biology, 2010, 74, 367-380.	3.9	120
6	<i>Arabidopsis</i>Transporter MGT6 Mediates Magnesium Uptake and Is Required for Growth under Magnesium Limitation. Plant Cell, 2014, 26, 2234-2248.	6.6	108
7	FERONIA Receptor Kinase at the Crossroads of Hormone Signaling and Stress Responses. Plant and Cell Physiology, 2017, 58, 1143-1150.	3.1	83
8	A calcium signalling network activates vacuolar K+ remobilization to enable plant adaptation to low-K environments. Nature Plants, 2020, 6, 384-393.	9.3	76
9	Two tonoplast MATE proteins function as turgor-regulating chloride channels in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2036-E2045.	7.1	70
10	Poplar calcineurin <scp>B</scp>â€like proteins <scp>PtCBL10A</scp> and <scp>PtCBL10B</scp> regulate shoot salt tolerance through interaction with <scp>PtSOS2</scp> in the vacuolar membrane. Plant, Cell and Environment, 2014, 37, 573-588.	5.7	69
11	Overexpression of <i>Populus trichocarpa <scp>CYP</scp>85A3</i> promotes growth and biomass production in transgenic trees. Plant Biotechnology Journal, 2017, 15, 1309-1321.	8.3	58
12	Overexpression of Pyrabactin Resistance-Like Abscisic Acid Receptors Enhances Drought, Osmotic, and Cold Tolerance in Transgenic Poplars. Frontiers in Plant Science, 2017, 8, 1752.	3.6	57
13	Overexpression of the <i><scp>P</scp>t<scp>SOS</scp>2</i> gene improves tolerance to salt stress in transgenic poplar plants. Plant Biotechnology Journal, 2015, 13, 962-973.	8.3	51
14	Calcineurin B-Like Proteins CBL4 and CBL10 Mediate Two Independent Salt Tolerance Pathways in Arabidopsis. International Journal of Molecular Sciences, 2019, 20, 2421.	4.1	49
15	Overexpression of Poplar Pyrabactin Resistance-Like Abscisic Acid Receptors Promotes Abscisic Acid Sensitivity and Drought Resistance in Transgenic Arabidopsis. PLoS ONE, 2016, 11, e0168040.	2.5	43
16	Transport and homeostasis of potassium and phosphate: limiting factors for sustainable crop production. Journal of Experimental Botany, 2016, 68, erw444.	4.8	42
17	The calcium sensor CBL7 modulates plant responses to low nitrate in Arabidopsis. Biochemical and Biophysical Research Communications, 2015, 468, 59-65.	2.1	40
18	Magnesium Transporter MGT6 Plays an Essential Role in Maintaining Magnesium Homeostasis and Regulating High Magnesium Tolerance in Arabidopsis. Frontiers in Plant Science, 2018, 9, 274.	3.6	37

#	Article	IF	Citations
19	Arabidopsis choline transporter-like 1 (CTL1) regulates secretory trafficking of auxin transporters to control seedling growth. PLoS Biology, 2017, 15, e2004310.	5.6	35
20	An ABC transporter complex encoded by Aluminum Sensitive 3 and NAP3 is required for phosphate deficiency responses in Arabidopsis. Biochemical and Biophysical Research Communications, 2015, 463, 18-23.	2.1	33
21	Plant Membrane Transport Research inÂtheÂPost-genomic Era. Plant Communications, 2020, 1, 100013.	7.7	26
22	Golgiâ€localized cation/proton exchangers regulate ionic homeostasis and skotomorphogenesis in Arabidopsis. Plant, Cell and Environment, 2019, 42, 673-687.	5.7	25
23	A Defective Vacuolar Proton Pump Enhances Aluminum Tolerance by Reducing Vacuole Sequestration of Organic Acids. Plant Physiology, 2019, 181, 743-761.	4.8	22
24	Transgenic analysis reveals LeACS-1 as a positive regulator of ethylene-induced shikonin biosynthesis in Lithospermum erythrorhizon hairy roots. Plant Molecular Biology, 2016, 90, 345-358.	3.9	17
25	Conserved mechanism for vacuolar magnesium sequestration in yeast and plant cells. Nature Plants, 2022, 8, 181-190.	9.3	16
26	Transgenic studies reveal the positive role of LeEIL-1 in regulating shikonin biosynthesis in Lithospermum erythrorhizon hairy roots. BMC Plant Biology, 2016, 16, 121.	3.6	15
27	Vacuolar Proton Pyrophosphatase Is Required for High Magnesium Tolerance in Arabidopsis. International Journal of Molecular Sciences, 2018, 19, 3617.	4.1	15
28	Two tonoplast proton pumps function in Arabidopsis embryo development. New Phytologist, 2020, 225, 1606-1617.	7.3	14
29	Four plasma membrane-localized MGR transporters mediate xylem Mg2+ loading for root-to-shoot Mg2+ translocation in Arabidopsis. Molecular Plant, 2022, 15, 805-819.	8.3	13
30	Genome-Wide Analysis of the Five Phosphate Transporter Families in Camelina sativa and Their Expressions in Response to Low-P. International Journal of Molecular Sciences, 2020, 21, 8365.	4.1	10
31	Rhythms of magnesium. Nature Plants, 2020, 6, 742-743.	9.3	10
32	Arabidopsis Seedling Lethal 1 Interacting With Plastid-Encoded RNA Polymerase Complex Proteins Is Essential for Chloroplast Development. Frontiers in Plant Science, 2020, 11, 602782.	3.6	6
33	Functional repression of PtSND2 represses growth and development by disturbing auxin biosynthesis, transport and signaling in transgenic poplar. Tree Physiology, 2015, 35, 95-105.	3.1	3
34	Stress-associated developmental reprogramming in moss protonemata by synthetic activation of the common symbiosis pathway. IScience, 2022, 25, 103754.	4.1	2