Rujin Chen

List of Publications by Year
in descending order

42 papers	3,515 citations	186265 28 h-index	289244 40 g-index
48 all docs	48 docs citations	48 times ranked	4083 citing authors

#	Article	IF	Citations
1	Root Traits and Phenotyping Strategies for Plant Improvement. Plants, 2015, 4, 334-355.	3.5	274
2	Gravitropism in Higher Plants1. Plant Physiology, 1999, 120, 343-350.	4.8	230
3	Light Plays an Essential Role in Intracellular Distribution of Auxin Efflux Carrier PIN2 in Arabidopsis thaliana. PLoS ONE, 2008, 3, e1510.	2.5	214
4	<i>Vapyrin</i>, a gene essential for intracellular progression of arbuscular mycorrhizal symbiosis, is also essential for infection by rhizobia in the nodule symbiosis of <i>Medicago truncatula</i>. Plant Journal, 2011, 65, 244-252.	5.7	211
5	Loss ofAt4function impacts phosphate distribution between the roots and the shoots during phosphate starvation. Plant Journal, 2006, 45, 712-726.	5.7	205
6	Identification and characterization of long non-coding RNAs involved in osmotic and salt stress in Medicago truncatula using genome-wide high-throughput sequencing. BMC Plant Biology, 2015, 15, 131.	3.6	181
7	ALTERED RESPONSE TO GRAVITY Is a Peripheral Membrane Protein That Modulates Gravity-Induced Cytoplasmic Alkalinization and Lateral Auxin Transport in Plant Statocytes. Plant Cell, 2003, 15, 2612-2625.	6.6	169
8	Loss of the nodule-specific cysteine rich peptide, NCR169, abolishes symbiotic nitrogen fixation in the <i>Medicago truncatula dnf7</i> mutant. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15232-15237.	7.1	154
9	Control of Compound Leaf Development by<i>FLORICAULA/LEAFY</i>Ortholog<i>SINGLE LEAFLET1</i>in<i>Medicago truncatula</i>Â Â Â Â. Plant Physiology, 2008, 146, 1759-1772.	4.8	139
10	An antimicrobial peptide essential for bacterial survival in the nitrogen-fixing symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15238-15243.	7.1	128
11	The promotion of gravitropism inArabidopsisroots upon actin disruption is coupled with the extended alkalinization of the columella cytoplasm and a persistent lateral auxin gradient. Plant Journal, 2004, 39, 113-125.	5.7	118
12	Increasing seed size and quality by manipulating <i>BIG SEEDS1</i> in legume species. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12414-12419.	7.1	117
13	The E3 Ubiquitin Ligase SCFTIR1/AFB and Membrane Sterols Play Key Roles in Auxin Regulation of Endocytosis, Recycling, and Plasma Membrane Accumulation of the Auxin Efflux Transporter PIN2 in<i>Arabidopsis thaliana</i>Â Â Â. Plant Cell, 2009, 21, 568-580.	6.6	112
14	Loss of Abaxial Leaf Epicuticular Wax in<i>Medicago truncatula irg1/palm1</i>Mutants Results in Reduced Spore Differentiation of Anthracnose and Nonhost Rust Pathogens. Plant Cell, 2012, 24, 353-370.	6.6	112
15	A <i>Medicago truncatula</i> Tobacco Retrotransposon Insertion Mutant Collection with Defects in Nodule Development and Symbiotic Nitrogen Fixation Â Â. Plant Physiology, 2012, 159, 1686-1699.	4.8	109
16	A Remote <i>cis</i>-Regulatory Region Is Required for <i>NIN</i> Expression in the Pericycle to Initiate Nodule Primordium Formation in <i>Medicago truncatula</i>. Plant Cell, 2019, 31, 68-83.	6.6	101
17	Deletion-Based Reverse Genetics in <i>Medicago truncatula</i> Â Â Â. Plant Physiology, 2009, 151, 1077-1086.	4.8	97
18	Complex regulation of Arabidopsis AGR1/PIN2-mediated root gravitropic response and basipetal auxin transport by cantharidin-sensitive protein phosphatases. Plant Journal, 2005, 42, 188-200.	5.7	87

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19	Negative gravitropism in plant roots. Nature Plants, 2016, 2, 16155.	9.3	82
20	Control of dissected leaf morphology by a Cys(2)His(2) zinc finger transcription factor in the model legume <i>Medicago truncatula</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10754-10759.	7.1	80
21	Novel phosphate deficiency-responsive long non-coding RNAs in the legume model plant Medicago truncatula. Journal of Experimental Botany, 2017, 68, 5937-5948.	4.8	77
22	<i>NO APICAL MERISTEM</i> (<i>MtNAM</i>) regulates floral organ identity and lateral organ separation in <i>Medicago truncatula</i>. New Phytologist, 2012, 195, 71-84.	7.3	68
23	Conserved genetic determinant of motor organ identity in <i>Medicago truncatula</i> and related legumes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11723-11728.	7.1	57
24	Regulation of Compound Leaf Development in <i>Medicago truncatula</i> by <i>Fused Compound Leaf1,</i> a Class M <i>KNOX</i> Gene Â. Plant Cell, 2011, 23, 3929-3943.	6.6	54
25	Regulation of Compound Leaf Development by PHANTASTICA in Medicago truncatula. Plant Physiology, 2014, 164, 216-228.	4.8	41
26	Strigolactones contribute to shoot elongation and to the formation of leaf margin serrations in Medicago truncatula R108. Journal of Experimental Botany, 2015, 66, 1237-1244.	4.8	40
27	The genome of a wild Medicago species provides insights into the tolerant mechanisms of legume forage to environmental stress. BMC Biology, 2021, 19, 96.	3.8	39
28	Auxin efflux transporter MtPIN10 regulates compound leaf and flower development inMedicago truncatula. Plant Signaling and Behavior, 2011, 6, 1537-1544.	2.4	37
29	Negative gravitropic response of roots directs auxin flow to control root gravitropism. Plant, Cell and Environment, 2019, 42, 2372-2383.	5.7	33
30	<i>Medicago truncatula esn1</i> Defines a Genetic Locus Involved in Nodule Senescence and Symbiotic Nitrogen Fixation. Molecular Plant-Microbe Interactions, 2013, 26, 893-902.	2.6	29
31	AUXIN RESPONSE FACTOR3 Regulates Compound Leaf Patterning by Directly Repressing PALMATE-LIKE PENTAFOLIATA1 Expression in Medicago truncatula. Frontiers in Plant Science, 2017, 8, 1630.	3.6	21
32	LeafletAnalyzer, an Automated Software for Quantifying, Comparing and Classifying Blade and Serration Features of Compound Leaves during Development, and among Induced Mutants and Natural Variants in the Legume Medicago truncatula. Frontiers in Plant Science, 2017, 8, 915.	3.6	15
33	The<i>Medicago truncatula</i>PIN2 auxin transporter mediates basipetal auxin transport but is not necessary for nodulation. Journal of Experimental Botany, 2020, 71, 1562-1573.	4.8	12
34	Regulation of Compound Leaf Development. Plants, 2014, 3, 1-17.	3.5	11
35	Palmate-like pentafoliata1 encodes a novel Cys(2)His(2) zinc finger transcription factor essential for compound leaf morphogenesis in Medicago truncatula. Plant Signaling and Behavior, 2010, 5, 1134-1137.	2.4	10
36	The role for CYCLIN A1;2/TARDY ASYNCHRONOUS MEIOSIS in differentiated cells in Arabidopsis. Plant Molecular Biology, 2014, 85, 81-94.	3.9	10

#	Article	IF	Citations
37	Physical Mutagenesis in Medicago truncatula Using Fast Neutron Bombardment (FNB) for Symbiosis and Developmental Biology Studies. Methods in Molecular Biology, 2018, 1822, 61-69.	0.9	9
38	Auxin Transport and Recycling of PIN Proteins in Plants. , 0, , 139-157.		8
39	PHANTASTICA regulates leaf polarity and petiole identity in<i>Medicago truncatula</i>. Plant Signaling and Behavior, 2014, 9, e28121.	2.4	8
40	An Array-based Comparative Genomic Hybridization Platform for Efficient Detection of Copy Number Variations in Fast Neutron-induced Medicago truncatula Mutants. Journal of Visualized Experiments, 2017, , .	0.3	8
41	Functional Genomics and Genetic Control of Compound Leaf Development in Medicago truncatula: An Overview. Methods in Molecular Biology, 2018, 1822, 197-203.	0.9	5
42	Signaling and Transport of Auxin and Plant Development. Signaling and Communication in Plants, 2013, , 239-258.	0.7	1