Hongyan Zhu

List of Publications by Year
in descending order

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29 papers	3,007 citations	279798 23 h-index	477307 29 g-index
29 all docs	29 docs citations	29 times ranked	3279 citing authors

#	Article	IF	Citations
1	Estimating genome conservation between crop and model legume species. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15289-15294.	7.1	416
2	R gene-controlled host specificity in the legumeâ€“rhizobia symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18735-18740.	7.1	277
3	Symbiosis specificity in the legume - rhizobial mutualism. Cellular Microbiology, 2012, 14, 334-342.	2.1	257
4	Bridging Model and Crop Legumes through Comparative Genomics. Plant Physiology, 2005, 137, 1189-1196.	4.8	247
5	Integration of novel SSR and gene-based SNP marker loci in the chickpea genetic map and establishment of new anchor points with Medicago truncatula genome. Theoretical and Applied Genetics, 2010, 120, 1415-1441.	3.6	200
6	Genetic and Molecular Mechanisms Underlying Symbiotic Specificity in Legume-Rhizobium Interactions. Frontiers in Plant Science, 2018, 9, 313.	3.6	191
7	Rj4, a Gene Controlling Nodulation Specificity in Soybeans, Encodes a Thaumatin-Like Protein But Not the One Previously Reported. Plant Physiology, 2016, 170, 26-32.	4.8	125
8	Alfalfa benefits fromMedicago truncatula: TheRCT1gene fromM. truncatulaconfers broad-spectrum resistance to anthracnose in alfalfa. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12164-12169.	7.1	123
9	Host-secreted antimicrobial peptide enforces symbiotic selectivity in Medicago truncatula. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6854-6859.	7.1	119
10	Microsymbiont discrimination mediated by a host-secreted peptide in Medicago truncatula. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6848-6853.	7.1	110
11	Tracing Nonlegume Orthologs of Legume Genes Required for Nodulation and Arbuscular Mycorrhizal Symbioses. Genetics, 2006, 172, 2491-2499.	2.9	107
12	Alternative Splicing in Plant Immunity. International Journal of Molecular Sciences, 2014, 15, 10424-10445.	4.1	106
13	Fungal Symbiosis in Rice Requires an Ortholog of a Legume Common Symbiosis Gene Encoding a Ca²⁺/Calmodulin-Dependent Protein Kinase. Plant Physiology, 2007, 145, 1619-1628.	4.8	102
14	Phylogeny and Genomic Organization of the TIR and Non-TIR NBS-LRR Resistance Gene Family in Medicago truncatul. Molecular Plant-Microbe Interactions, 2002, 15, 529-539.	2.6	94
15	OsIPD3, an ortholog of the Medicago truncatula DMI3 interacting protein IPD3, is required for mycorrhizal symbiosis in rice. New Phytologist, 2008, 180, 311-315.	7.3	77
16	Syntenic Relationships between Medicago truncatulaand Arabidopsis Reveal Extensive Divergence of Genome Organization,. Plant Physiology, 2003, 131, 1018-1026.	4.8	67
17	Antiquity and Function ofCASTORandPOLLUX, the Twin Ion Channel-Encoding Genes Key to the Evolution of Root Symbioses in Plants Â Â. Plant Physiology, 2009, 149, 306-317.	4.8	63
18	The Soybean Rfg1 Gene Restricts Nodulation by Sinorhizobium fredii USDA193. Frontiers in Plant Science, 2017, 8, 1548.	3.6	52

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19	Nodule-Specific Cysteine-Rich Peptides Negatively Regulate Nitrogen-Fixing Symbiosis in a Strain-Specific Manner inMedicago truncatula. Molecular Plant-Microbe Interactions, 2018, 31, 240-248.	2.6	51
20	Recent Advances inMedicago truncatulaGenomics. International Journal of Plant Genomics, 2008, 2008, 1-11.	2.2	40
21	Identification of a dominant gene in Medicago truncatula that restricts nodulation by Sinorhizobium meliloti strain Rm41. BMC Plant Biology, 2014, 14, 167.	3.6	30
22	The Impacts of Domestication and Breeding on Nitrogen Fixation Symbiosis in Legumes. Frontiers in Genetics, 2020, 11, 00973.	2.3	30
23	Alternative splicing is required for RCT1-mediated disease resistance in Medicago truncatula. Plant Molecular Biology, 2013, 82, 367-374.	3.9	24
24	Genetic and physical localization of an anthracnose resistance gene in Medicago truncatula. Theoretical and Applied Genetics, 2007, 116, 45-52.	3.6	22
25	Fine mapping of a major quantitative trait locus that regulates pod shattering in soybean. Molecular Breeding, 2013, 32, 485-491.	2.1	21
26	Are common symbiosis genes required for endophytic rice-rhizobial interactions?. Plant Signaling and Behavior, 2013, 8, e25453.	2.4	19
27	Genetic Manipulation of miR156 for Improvement of Biomass Production and Forage Quality in Red Clover. Crop Science, 2016, 56, 1199-1205.	1.8	15
28	Transcriptomic and targeted metabolomic analysis identifies genes and metabolites involved in anthocyanin accumulation in tuberous roots of sweetpotato (Ipomoea batatas L.). Plant Physiology and Biochemistry, 2020, 156, 323-332.	5.8	13
29	Fine mapping of the Rj4 locus, a gene controlling nodulation specificity in soybean. Molecular Breeding, 2014, 33, 691-700.	2.1	9