Yingxiang Wang

List of Publications by Year
in descending order

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51 papers	2,142 citations	257450 24 h-index	243625 44 g-index
53 all docs	53 docs citations	53 times ranked	2518 citing authors

#	Article	IF	Citations
1	RNA-seq analyses of multiple meristems of soybean: novel and alternative transcripts, evolutionary and functional implications. BMC Plant Biology, 2014, 14, 169.	3.6	229
2	Overexpressing AtPAP15 Enhances Phosphorus Efficiency in Soybean. Plant Physiology, 2009, 151, 233-240.	4.8	208
3	Meiotic Recombination: Mixing It Up in Plants. Annual Review of Plant Biology, 2018, 69, 577-609.	18.7	169
4	The <scp>DYT</scp>1â€interacting proteins b<scp>HLH</scp>010, b<scp>HLH</scp>089 and b<scp>HLH</scp>091 are redundantly required for <scp>A</scp>rabidopsis anther development and transcriptome. Plant Journal, 2015, 83, 976-990.	5.7	136
5	The transcriptome landscape of Arabidopsis male meiocytes from highâ€throughput sequencing: the complexity and evolution of the meiotic process. Plant Journal, 2011, 65, 503-516.	5.7	135
6	The plant WNK gene family and regulation of flowering time in Arabidopsis. Plant Biology, 2008, 10, 548-562.	3.8	88
7	Molecular control of microsporogenesis in Arabidopsis. Current Opinion in Plant Biology, 2011, 14, 66-73.	7.1	88
8	The DNA Replication Factor RFC1 Is Required for Interference-Sensitive Meiotic Crossovers in Arabidopsis thaliana. PLoS Genetics, 2012, 8, e1003039.	3.5	75
9	Expansion and Functional Divergence of Jumonji C-Containing Histone Demethylases: Significance of Duplications in Ancestral Angiosperms and Vertebrates. Plant Physiology, 2015, 168, 1321-1337.	4.8	67
10	Elevated temperature increases meiotic crossover frequency via the interfering (Type I) pathway in Arabidopsis thaliana. PLoS Genetics, 2018, 14, e1007384.	3.5	60
11	Arabidopsis Cell Division Cycle 20.1 Is Required for Normal Meiotic Spindle Assembly and Chromosome Segregation. Plant Cell, 2015, 27, 3367-3382.	6.6	55
12	The Number of Meiotic Double-Strand Breaks Influences Crossover Distribution in Arabidopsis. Plant Cell, 2018, 30, 2628-2638.	6.6	52
13	Molecular Cell Biology of Male Meiotic Chromosomes and Isolation of Male Meiocytes in Arabidopsis thaliana. Methods in Molecular Biology, 2014, 1110, 217-230.	0.9	52
14	The soybean root-specific protein kinase GmWNK1 regulates stress-responsive ABA signaling on the root system architecture. Plant Journal, 2010, 64, 230-242.	5.7	50
15	The Arabidopsis thaliana DSB formation (AtDFO) gene is required for meiotic doubleâ€strand break formation. Plant Journal, 2012, 72, 271-281.	5.7	46
16	Disruption of AtWNK8 Enhances Tolerance of Arabidopsis to Salt and Osmotic Stresses via Modulating Proline Content and Activities of Catalase and Peroxidase. International Journal of Molecular Sciences, 2013, 14, 7032-7047.	4.1	46
17	The PHD Finger Protein MMD1/DUET Ensures the Progression of Male Meiotic Chromosome Condensation and Directly Regulates the Expression of the Condensin Gene CAP-D3. Plant Cell, 2016, 28, 1894-1909.	6.6	46
18	Alternative splicing during Arabidopsis flower development results in constitutive and stage-regulated isoforms. Frontiers in Genetics, 2014, 5, 25.	2.3	45

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19	Genome-wide characterization of soybean P 1B -ATPases gene family provides functional implications in cadmium responses. BMC Genomics, 2016, 17, 376.	2.8	44
20	The <scp>A</scp>rabidopsis <scp>RAD</scp>51 paralogs <scp>RAD</scp>51B,<scp>RAD</scp>51<scp>D</scp> and <scp>XRCC</scp>2 play partially redundant roles in somatic <scp>DNA</scp> repair and gene regulation. New Phytologist, 2014, 201, 292-304.	7.3	37
21	Meiocyte-Specific and AtSPO11-1â€“Dependent Small RNAs and Their Association with Meiotic Gene Expression and Recombination. Plant Cell, 2019, 31, 444-464.	6.6	37
22	Arabidopsis RAD51, RAD51C and XRCC3 proteins form a complex and facilitate RAD51 localization on chromosomes for meiotic recombination. PLoS Genetics, 2017, 13, e1006827.	3.5	37
23	RAD51 supports DMC1 by inhibiting the SMC5/6 complex during meiosis. Plant Cell, 2021, 33, 2869-2882.	6.6	30
24	The Largest Subunit of DNA Polymerase Delta Is Required for Normal Formation of Meiotic Type I Crossovers. Plant Physiology, 2019, 179, 446-459.	4.8	29
25	Analysis of Arabidopsis floral transcriptome: detection of new florally expressed genes and expansion of Brassicaceae-specific gene families. Frontiers in Plant Science, 2015, 5, 802.	3.6	28
26	Formation of interference-sensitive meiotic cross-overs requires sufficient DNA leading-strand elongation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12534-12539.	7.1	23
27	Hyponastic Leaves 1 protects pri-miRNAs from nuclear exosome attack. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17429-17437.	7.1	23
28	Modulation of evening complex activity enables north-to-south adaptation of soybean. Science China Life Sciences, 2021, 64, 179-195.	4.9	22
29	Overexpression of the soybean GmWNK1 altered the sensitivity to salt and osmotic stress in Arabidopsis. Journal of Plant Physiology, 2011, 168, 2260-2267.	3.5	19
30	The cohesin loader SCC2 contains a PHD finger that is required for meiosis in land plants. PLoS Genetics, 2020, 16, e1008849.	3.5	18
31	The Arabidopsis anaphaseâ€promoting complex/cyclosome subunit 8 is required for male meiosis. New Phytologist, 2019, 224, 229-241.	7.3	15
32	Anaphase-promoting complex/cyclosome regulates RdDM activity by degrading DMS3 in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3899-3908.	7.1	14
33	Regulation of interference-sensitive crossover distribution ensures crossover assurance in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	14
34	Cell-type-dependent histone demethylase specificity promotes meiotic chromosome condensation in Arabidopsis. Nature Plants, 2020, 6, 823-837.	9.3	13
35	Conservation and Divergence in the Meiocyte sRNAomes of Arabidopsis, Soybean, and Cucumber. Plant Physiology, 2020, 182, 301-317.	4.8	13
36	Fanconi anemia ortholog FANCM regulates meiotic crossover distribution in plants. Plant Physiology, 2021, 186, 344-360.	4.8	13

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37	Bivalent Formation 1, a plant-conserved gene, encodes an OmpH/coiled-coil motif-containing protein required for meiotic recombination in rice. Journal of Experimental Botany, 2017, 68, 2163-2174.	4.8	12
38	Insights Into the Role of Ubiquitination in Meiosis: Fertility, Adaptation and Plant Breeding. The Arabidopsis Book, 2018, 16, e0187.	0.5	11
39	Development: A Pathway to Plant Female Germ Cells. Current Biology, 2011, 21, R476-R478.	3.9	6
40	An Fâ€box protein ACOZ1 functions in crossover formation by ensuring proper chromosome compaction during maize meiosis. New Phytologist, 2022, 235, 157-172.	7.3	5
41	New insights into the role of DNA synthesis in meiotic recombination. Science Bulletin, 2016, 61, 1260-1269.	9.0	4
42	Comparison of Metabolic Profiling of Arabidopsis Inflorescences Between Landsberg erecta and Columbia, and Meiosis-Defective Mutants by 1H-NMR Spectroscopy. Phenomics, 2021, 1, 73-89.	2.9	4
43	Functional Characterization of the Lysine-Specific Histone Demethylases Family in Soybean. Plants, 2022, 11, 1398.	3.5	4
44	MeioBase: a comprehensive database for meiosis. Frontiers in Plant Science, 2014, 5, 728.	3.6	3
45	A Strategy for Screening Monoclonal Antibodies for Arabidopsis Flowers. Frontiers in Plant Science, 2017, 8, 270.	3.6	3
46	Engineering stable heterosis. Journal of Genetics and Genomics, 2019, 46, 1-3.	3.9	3
47	Comparative transcriptomic analysis of thermally stressed Arabidopsis thaliana meiotic recombination mutants. BMC Genomics, 2021, 22, 181.	2.8	3
48	Small RNA in plant meiosis and gametogenesis. Reproduction and Breeding, 2022, 2, 65-70.	1.6	3
49	Meiosis: Interactions Between Homologous Chromosomes. , 2014, , 1-34.		2
50	Histone demethylase IBM1-mediated meiocyte gene expression ensures meiotic chromosome synapsis and recombination. PLoS Genetics, 2022, 18, e1010041.	3.5	1
51	Identifying small RNAs and Analyzing Their Association with Gene Expression Using IsolatedÂArabidopsis Male Meiocytes. Methods in Molecular Biology, 2022, 2484, 23-41.	0.9	0