

Heng Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

3,857

citations

32

h-index

62

g-index

67

ext. papers

5,429

ext. citations

11.4

avg, IF

5.39

L-index

#	Paper	IF	Citations
63	The CRISPR/Cas9 system produces specific and homozygous targeted gene editing in rice in one generation. <i>Plant Biotechnology Journal</i> , 2014 , 12, 797-807	11.6	540
62	Circulating tumour DNA methylation markers for diagnosis and prognosis of hepatocellular carcinoma. <i>Nature Materials</i> , 2017 , 16, 1155-1161	27	387
61	Comparative physiological, metabolomic, and transcriptomic analyses reveal mechanisms of improved abiotic stress resistance in bermudagrass [<i>Cynodon dactylon</i> (L). Pers.] by exogenous melatonin. <i>Journal of Experimental Botany</i> , 2015 , 66, 681-94	7	310
60	DNA methylation markers for diagnosis and prognosis of common cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7414-7419	11.5	231
59	A histone acetyltransferase regulates active DNA demethylation in Arabidopsis. <i>Science</i> , 2012 , 336, 1445-8	39.3	157
58	Mechanisms of Plant Responses and Adaptation to Soil Salinity. <i>Innovation(China)</i> , 2020 , 1, 100017	17.8	156
57	A virus-targeted plant receptor-like kinase promotes cell-to-cell spread of RNAi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1388-1393	11.5	135
56	DTF1 is a core component of RNA-directed DNA methylation and may assist in the recruitment of Pol IV. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8290-5	11.5	125
55	The CHD3 remodeler PICKLE associates with genes enriched for trimethylation of histone H3 lysine 27. <i>Plant Physiology</i> , 2012 , 159, 418-32	6.6	122
54	A high-quality genome assembly of quinoa provides insights into the molecular basis of salt bladder-based salinity tolerance and the exceptional nutritional value. <i>Cell Research</i> , 2017 , 27, 1327-1340	24.7	104
53	The CHD3 remodeler PICKLE promotes trimethylation of histone H3 lysine 27. <i>Journal of Biological Chemistry</i> , 2008 , 283, 22637-48	5.4	104
52	Developing naturally stress-resistant crops for a sustainable agriculture. <i>Nature Plants</i> , 2018 , 4, 989-996	11.5	99
51	Global increase in DNA methylation during orange fruit development and ripening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1430-1436	11.5	86
50	The DNA demethylase ROS1 targets genomic regions with distinct chromatin modifications. <i>Nature Plants</i> , 2016 , 2, 16169	11.5	80
49	PICKLE acts during germination to repress expression of embryonic traits. <i>Plant Journal</i> , 2005 , 44, 1010-22	22	75
48	TMK1-mediated auxin signalling regulates differential growth of the apical hook. <i>Nature</i> , 2019 , 568, 240-243	54.4	70
47	Dicer-independent RNA-directed DNA methylation in Arabidopsis. <i>Cell Research</i> , 2016 , 26, 66-82	24.7	67

46	Arabidopsis EDM2 promotes IBM1 distal polyadenylation and regulates genome DNA methylation patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 527-32	11.5	65
45	The genome of broomcorn millet. <i>Nature Communications</i> , 2019 , 10, 436	17.4	61
44	A pair of transposon-derived proteins function in a histone acetyltransferase complex for active DNA demethylation. <i>Cell Research</i> , 2017 , 27, 226-240	24.7	59
43	The Chromatin Remodelers PKL and PIE1 Act in an Epigenetic Pathway That Determines H3K27me3 Homeostasis in Arabidopsis. <i>Plant Cell</i> , 2018 , 30, 1337-1352	11.6	59
42	Understanding the Molecular Basis of Salt Sequestration in Epidermal Bladder Cells of <i>Chenopodium quinoa</i> . <i>Current Biology</i> , 2018 , 28, 3075-3085.e7	6.3	57
41	An epigenetic perspective on developmental regulation of seed genes. <i>Molecular Plant</i> , 2009 , 2, 610-627	14.4	55
40	Methylation interactions in Arabidopsis hybrids require RNA-directed DNA methylation and are influenced by genetic variation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4248-56	11.5	54
39	A Pre-mRNA-splicing factor is required for RNA-directed DNA methylation in Arabidopsis. <i>PLoS Genetics</i> , 2013 , 9, e1003779	6	45
38	PICKLE is a CHD subfamily II ATP-dependent chromatin remodeling factor. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2013 , 1829, 199-210	6	40
37	Histone acetylation recruits the SWR1 complex to regulate active DNA demethylation in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16641-16650	11.5	39
36	Thriving under Stress: How Plants Balance Growth and the Stress Response. <i>Developmental Cell</i> , 2020 , 55, 529-543	10.2	38
35	Arabidopsis AGDP1 links H3K9me2 to DNA methylation in heterochromatin. <i>Nature Communications</i> , 2018 , 9, 4547	17.4	38
34	The chromatin remodeler DDM1 promotes hybrid vigor by regulating salicylic acid metabolism. <i>Cell Discovery</i> , 2016 , 2, 16027	22.3	37
33	An Rrp6-like protein positively regulates noncoding RNA levels and DNA methylation in Arabidopsis. <i>Molecular Cell</i> , 2014 , 54, 418-30	17.6	34
32	The <i>Vigna unguiculata</i> Gene Expression Atlas (VuGEA) from de novo assembly and quantification of RNA-seq data provides insights into seed maturation mechanisms. <i>Plant Journal</i> , 2016 , 88, 318-327	6.9	32
31	A protein complex regulates RNA processing of intronic heterochromatin-containing genes in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7377-E7384	11.5	30
30	A Role for PICKLE in the Regulation of Cold and Salt Stress Tolerance in Arabidopsis. <i>Frontiers in Plant Science</i> , 2019 , 10, 900	6.2	28
29	Soil aluminum oxides determine biological nitrogen fixation and diazotrophic communities across major types of paddy soils in China. <i>Soil Biology and Biochemistry</i> , 2019 , 131, 81-89	7.5	26

28	A large-scale screening of quinoa accessions reveals an important role of epidermal bladder cells and stomatal patterning in salinity tolerance. <i>Environmental and Experimental Botany</i> , 2019 , 168, 103885 ^{5.9}	24
27	Critical function of DNA methyltransferase 1 in tomato development and regulation of the DNA methylome and transcriptome. <i>Journal of Integrative Plant Biology</i> , 2019 , 61, 1224-1242	8.3 24
26	The developmental regulator PKL is required to maintain correct DNA methylation patterns at RNA-directed DNA methylation loci. <i>Genome Biology</i> , 2017 , 18, 103	18.3 23
25	RNA-directed DNA methylation in plants: Where to start?. <i>RNA Biology</i> , 2013 , 10, 1593-6	4.8 23
24	HDAC1 and HDAC2 Regulate Intermediate Progenitor Positioning to Safeguard Neocortical Development. <i>Neuron</i> , 2019 , 101, 1117-1133.e5	13.9 17
23	Cross-Talk Between Sporophyte and Gametophyte Generations Is Promoted by CHD3 Chromatin Remodelers in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2016 , 203, 817-29	4 12
22	Identification of endogenous small peptides involved in rice immunity through transcriptomics- and proteomics-based screening. <i>Plant Biotechnology Journal</i> , 2020 , 18, 415-428	11.6 12
21	The receptor-like kinases BAM1 and BAM2 are required for root xylem patterning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5 12
20	Involvement of Multiple Gene-Silencing Pathways in a Paramutation-like Phenomenon in <i>Arabidopsis</i> . <i>Cell Reports</i> , 2015 , 11, 1160-7	10.6 10
19	Unveiling of active diazotrophs in a flooded rice soil by combination of NanoSIMS and ¹⁵ N ₂ -DNA-stable isotope probing. <i>Biology and Fertility of Soils</i> , 2020 , 56, 1189-1199	6.1 10
18	Salinity Effects on Guard Cell Proteome in. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3 7
17	Structural Basis for Recognition of a Unique Epitope by a Human Anti-tau Antibody. <i>Structure</i> , 2018 , 26, 1626-1634.e4	5.2 6
16	Sugar Beet () Guard Cells Responses to Salinity Stress: A Proteomic Analysis. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3 5
15	Developing and validating protocols for mechanical isolation of guard-cell enriched epidermal peels for omics studies. <i>Functional Plant Biology</i> , 2020 , 47, 803-814	2.7 4
14	Genome Sequence of <i>Bacillus megaterium</i> Strain YC4-R4, a Plant Growth-Promoting Rhizobacterium Isolated from a High-Salinity Environment. <i>Genome Announcements</i> , 2018 , 6,	4
13	A histone H3K4me1-specific binding protein is required for siRNA accumulation and DNA methylation at a subset of loci targeted by RNA-directed DNA methylation. <i>Nature Communications</i> , 2021 , 12, 3367	17.4 4
12	Complete Genome Sequence of <i>Bacillus megaterium</i> Strain TG1-E1, a Plant Drought Tolerance-Enhancing Bacterium. <i>Microbiology Resource Announcements</i> , 2018 , 7,	1.3 3
11	RNA-directed DNA methylation has an important developmental function in <i>Arabidopsis</i> that is masked by the chromatin remodeler PICKLE. <i>Journal of Integrative Plant Biology</i> , 2020 , 62, 1647-1652	8.3 2

10	The receptor-like kinases BAM1 and BAM2 promote the cell-to-cell movement of miRNA in the root stele to regulate xylem patterning		2
9	Recognition of H3K9me1 by maize RNA-directed DNA methylation factor SHH2. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 1091-1096	8.3	2
8	Genome sequencing and analysis of phylotype I strains FJAT-91, FJAT-452 and FJAT-462 isolated from tomato, eggplant, and chili pepper in China. <i>Standards in Genomic Sciences</i> , 2017 , 12, 29		1
7	Comparative physiological and transcriptomic analysis reveals salinity tolerance mechanisms in <i>Sorghum bicolor</i> (L.) Moench. <i>Planta</i> , 2021 , 254, 98	4.7	1
6	Liquid-liquid phase separation of RBGD2/4 is required for heat stress resistance in <i>Arabidopsis</i> .. <i>Developmental Cell</i> , 2022 ,	10.2	1
5	Alleviating the effect of quinoa and the underlying mechanism on hepatic steatosis in high-fat diet-fed rats.. <i>Nutrition and Metabolism</i> , 2021 , 18, 106	4.6	1
4	Transcriptome analyses of quinoa leaves revealed critical function of epidermal bladder cells in salt stress acclimation. <i>Plant Stress</i> , 2022 , 3, 100061		0
3	It Takes NSUN2 to Beat the Heat in Rice. <i>Developmental Cell</i> , 2020 , 53, 253-254	10.2	0
2	Protecting genes from RNA silencing by destroying aberrant transcripts. <i>Science China Life Sciences</i> , 2015 , 58, 613-5	8.5	
1	Mechanisms of Salinity Tolerance in Quinoa 2021 , 221-242		