Huiming Zhang

List of Publications by Year
in descending order

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61 papers	6,834 citations	136950 32 h-index	133252 59 g-index
64 all docs	64 docs citations	64 times ranked	6660 citing authors

#	Article	IF	Citations
1	Abiotic stress responses in plants. Nature Reviews Genetics, 2022, 23, 104-119.	16.3	710
2	Microbial enhancement of plant nutrient acquisition. Stress Biology, 2022, 2, .	3.1	42
3	Bacterial diacetyl suppresses abiotic stressâ€induced senescence in Arabidopsis. Journal of Integrative Plant Biology, 2022, 64, 1135-1139.	8.5	7
4	Plant latent defense response to microbial non-pathogenic factors antagonizes compatibility. National Science Review, 2022, 9, .	9.5	4
5	Flavonoid-attracted Aeromonas sp. from the Arabidopsis root microbiome enhances plant dehydration resistance. ISME Journal, 2022, 16, 2622-2632.	9.8	44
6	Roles of DEMETER in regulating DNA methylation in vegetative tissues and pathogen resistance. Journal of Integrative Plant Biology, 2021, 63, 691-706.	8.5	26
7	Measurements of Root Colonized Bacteria Species. Bio-protocol, 2021, 11, e3976.	0.4	5
8	Dicer-like proteins influence Arabidopsis root microbiota independent of RNA-directed DNA methylation. Microbiome, 2021, 9, 57.	11.1	15
9	Editorial: The Interplay Between Epigenetic Regulation and Other Cellular Processes. Frontiers in Genetics, 2021, 12, 691202.	2.3	0
10	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. Nature Communications, 2021, 12, 3367.	12.8	21
11	Plant Transcriptome Reprograming and Bacterial Extracellular Metabolites Underlying Tomato Drought Resistance Triggered by a Beneficial Soil Bacteria. Metabolites, 2021, 11, 369.	2.9	23
12	Genetic analysis implicates a molecular chaperone complex in regulating epigenetic silencing of methylated genomic regions. Journal of Integrative Plant Biology, 2021, 63, 1451-1461.	8.5	5
13	Epigenetic regulation in plant abiotic stress responses. Journal of Integrative Plant Biology, 2020, 62, 563-580.	8.5	292
14	DNA demethylases are required for myo-inositol-mediated mutualism between plants and beneficial rhizobacteria. Nature Plants, 2020, 6, 983-995.	9.3	48
15	Bacteria-derived diacetyl enhances Arabidopsis phosphate starvation responses partially through the DELLA-dependent gibberellin signaling pathway. Plant Signaling and Behavior, 2020, 15, 1740872.	2.4	14
16	Bacterial Volatile-Mediated Plant Abiotic Stress Tolerance. , 2020, , 187-200.		5
17	Rhizobacteriumâ€derived diacetyl modulates plant immunity in a phosphateâ€dependent manner. EMBO Journal, 2020, 39, e102602.	7.8	66
18	Histone acetylation recruits the SWR1 complex to regulate active DNA demethylation in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16641-16650.	7.1	73

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19	A model for the aberrant DNA methylomes in aging cells and cancer cells. Biochemical Society Transactions, 2019, 47, 997-1003.	3.4	5
20	Inositol Pyrophosphate InsP8 Acts as an Intracellular Phosphate Signal in Arabidopsis. Molecular Plant, 2019, 12, 1463-1473.	8.3	143
21	Critical function of DNA methyltransferase 1 in tomato development and regulation of the DNA methylome and transcriptome. Journal of Integrative Plant Biology, 2019, 61, 1224-1242.	8.5	49
22	Partial defoliation ofBrachypodium distachyonplants grown in petri dishes under low light increases P and other nutrient levels concomitantly with transcriptional changes in the roots. PeerJ, 2019, 7, e7102.	2.0	2
23	A naturally occurring epiallele associates with leaf senescence and local climate adaptation in Arabidopsis accessions. Nature Communications, 2018, 9, 460.	12.8	72
24	Complete Genome Sequence of Bacillus megaterium Strain TG1-E1, a Plant Drought Tolerance-Enhancing Bacterium. Microbiology Resource Announcements, 2018, 7, .	0.6	7
25	Four putative SWI2/SNF2 chromatin remodelers have dual roles in regulating DNA methylation in Arabidopsis. Cell Discovery, 2018, 4, 55.	6.7	22
26	Dynamics and function of DNA methylation in plants. Nature Reviews Molecular Cell Biology, 2018, 19, 489-506.	37.0	1,145
27	Genome Sequence of Bacillus megaterium Strain YC4-R4, a Plant Growth-Promoting Rhizobacterium Isolated from a High-Salinity Environment. Genome Announcements, 2018, 6, .	0.8	8
28	Genome Sequence of Bacillus cereus Strain TG1-6, a Plant-Beneficial Rhizobacterium That Is Highly Salt Tolerant. Genome Announcements, 2018, 6, .	0.8	6
29	New discoveries generate new questions about RNA-directed DNA methylation in Arabidopsis. National Science Review, 2017, 4, 10-15.	9.5	6
30	Computational Analysis of Genome-Wide ARGONAUTE-Dependent DNA Methylation in Plants. Methods in Molecular Biology, 2017, 1640, 219-225.	0.9	1
31	Efficient Generation of diRNAs Requires Components in the Posttranscriptional Gene Silencing Pathway. Scientific Reports, 2017, 7, 301.	3.3	34
32	SAC3B, a central component of the mRNA export complex TREX-2, is required for prevention of epigenetic gene silencing inArabidopsis. Nucleic Acids Research, 2017, 45, 181-197.	14.5	21
33	Roles of Nuclear Pores and Nucleo-cytoplasmic Trafficking in Plant Stress Responses. Frontiers in Plant Science, 2017, 08, 574.	3.6	43
34	Methylation interactions in Arabidopsis hybrids require RNA-directed DNA methylation and are influenced by genetic variation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4248-56.	7.1	79
35	Augmenting iron accumulation in cassava by the beneficial soil bacterium Bacillus subtilis (GBO3). Frontiers in Plant Science, 2015, 6, 596.	3.6	51
36	The effects of bacterial volatile emissions on plant abiotic stress tolerance. Frontiers in Plant Science, 2015, 6, 774.	3.6	124

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37	The Methyl-CpG-Binding Protein MBD7 Facilitates Active DNA Demethylation to Limit DNA Hyper-Methylation and Transcriptional Gene Silencing. Molecular Cell, 2015, 57, 971-983.	9.7	112
38	Regulatory link between DNA methylation and active demethylation in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3553-3557.	7.1	204
39	An AP Endonuclease Functions in Active DNA Demethylation and Gene Imprinting in Arabidopsis. PLoS Genetics, 2015, 11, e1004905.	3.5	53
40	Specific but interdependent functions for <scp>A</scp> rabidopsis <scp>AGO</scp> 4 and <scp>AGO</scp> 6 in <scp>RNA</scp> â€directed <scp>DNA</scp> methylation. EMBO Journal, 2015, 34, 581-592.	7.8	90
41	MET18 Connects the Cytosolic Iron-Sulfur Cluster Assembly Pathway to Active DNA Demethylation in Arabidopsis. PLoS Genetics, 2015, 11, e1005559.	3.5	43
42	Emerging roles of RNA processing factors in regulating long non-coding RNAs. RNA Biology, 2014, 11, 793-797.	3.1	21
43	AtRRP6L1, a Homolog of Conserved Yeast Exosomal Rrp6p, Plays an Important Role in Transcriptional Gene Silencing in Arabidopsis. Molecular Plant, 2014, 7, 1490-1493.	8.3	5
44	Regulation of Active DNA Demethylation by an Î±-Crystallin Domain Protein in Arabidopsis. Molecular Cell, 2014, 55, 361-371.	9.7	44
45	Protocol: a beginnerâ€™s guide to the analysis of RNA-directed DNA methylation in plants. Plant Methods, 2014, 10, 18.	4.3	32
46	An Rrp6-like Protein Positively Regulates Noncoding RNA Levels and DNA Methylation in Arabidopsis. Molecular Cell, 2014, 54, 418-430.	9.7	45
47	Dynamic Chemical Communication between Plants and Bacteria through Airborne Signals: Induced Resistance by Bacterial Volatiles. Journal of Chemical Ecology, 2013, 39, 1007-1018.	1.8	248
48	Quantitative phosphoproteomics identifies SnRK2 protein kinase substrates and reveals the effectors of abscisic acid action. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11205-11210.	7.1	394
49	RNA-binding protein regulates plant DNA methylation by controlling mRNA processing at the intronic heterochromatin-containing gene IBM1. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15467-15472.	7.1	91
50	Chemical probes in plant epigenetics studies. Plant Signaling and Behavior, 2013, 8, e25364.	2.4	16
51	Sulfamethazine Suppresses Epigenetic Silencing in Arabidopsis by Impairing Folate Synthesis. Plant Cell, 2012, 24, 1230-1241.	6.6	77
52	Seeing the forest for the trees: a wide perspective on RNA-directed DNA methylation: Figure 1.. Genes and Development, 2012, 26, 1769-1773.	5.9	16
53	RNA-directed DNA methylation. Current Opinion in Plant Biology, 2011, 14, 142-147.	7.1	232
54	Transcriptional profiling in cotton associated with Bacillus subtilis (UFLA285) induced biotic-stress tolerance. Plant and Soil, 2011, 347, 327-337.	3.7	33

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55	Beneficial Rhizobacteria Induce Plant Growth: Mapping Signaling Networks in Arabidopsis. Soil Biology, 2011, , 403-412.	0.8	17
56	Choline and Osmotic-Stress Tolerance Induced in Arabidopsis by the Soil Microbe Bacillus subtilis (GB03). Molecular Plant-Microbe Interactions, 2010, 23, 1097-1104.	2.6	208
57	Sustained growth promotion in Arabidopsis with long-term exposure to the beneficial soil bacteriumBacillus subtilis(GB03). Plant Signaling and Behavior, 2009, 4, 948-953.	2.4	127
58	A soil bacterium regulates plant acquisition of iron via deficiencyâ€inducible mechanisms. Plant Journal, 2009, 58, 568-577.	5.7	319
59	Soil bacteria augment Arabidopsis photosynthesis by decreasing glucose sensing and abscisic acid levels inâ€ƒplanta. Plant Journal, 2008, 56, 264-273.	5.7	305
60	Soil Bacteria Confer Plant Salt Tolerance by Tissue-Specific Regulation of the Sodium Transporter HKT1. Molecular Plant-Microbe Interactions, 2008, 21, 737-744.	2.6	462
61	Rhizobacterial volatile emissions regulate auxin homeostasis and cell expansion in Arabidopsis. Planta, 2007, 226, 839-851.	3.2	421