

Huiming Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Dynamics and function of DNA methylation in plants. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 489-506.	37.0	1,145
2	Abiotic stress responses in plants. <i>Nature Reviews Genetics</i> , 2022, 23, 104-119.	16.3	710
3	Soil Bacteria Confer Plant Salt Tolerance by Tissue-Specific Regulation of the Sodium Transporter <i>HKT1</i> . <i>Molecular Plant-Microbe Interactions</i> , 2008, 21, 737-744.	2.6	462
4	Rhizobacterial volatile emissions regulate auxin homeostasis and cell expansion in <i>Arabidopsis</i> . <i>Planta</i> , 2007, 226, 839-851.	3.2	421
5	Quantitative phosphoproteomics identifies SnRK2 protein kinase substrates and reveals the effectors of abscisic acid action. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11205-11210.	7.1	394
6	A soil bacterium regulates plant acquisition of iron via deficiency-inducible mechanisms. <i>Plant Journal</i> , 2009, 58, 568-577.	5.7	319
7	Soil bacteria augment <i>Arabidopsis</i> photosynthesis by decreasing glucose sensing and abscisic acid levels in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2008, 56, 264-273.	5.7	305
8	Epigenetic regulation in plant abiotic stress responses. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 563-580.	8.5	292
9	Dynamic Chemical Communication between Plants and Bacteria through Airborne Signals: Induced Resistance by Bacterial Volatiles. <i>Journal of Chemical Ecology</i> , 2013, 39, 1007-1018.	1.8	248
10	RNA-directed DNA methylation. <i>Current Opinion in Plant Biology</i> , 2011, 14, 142-147.	7.1	232
11	Choline and Osmotic-Stress Tolerance Induced in <i>Arabidopsis</i> by the Soil Microbe <i>Bacillus subtilis</i> (GB03). <i>Molecular Plant-Microbe Interactions</i> , 2010, 23, 1097-1104.	2.6	208
12	Regulatory link between DNA methylation and active demethylation in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3553-3557.	7.1	204
13	Inositol Pyrophosphate InsP8 Acts as an Intracellular Phosphate Signal in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2019, 12, 1463-1473.	8.3	143
14	Sustained growth promotion in <i>Arabidopsis</i> with long-term exposure to the beneficial soil bacterium <i>Bacillus subtilis</i> (GB03). <i>Plant Signaling and Behavior</i> , 2009, 4, 948-953.	2.4	127
15	The effects of bacterial volatile emissions on plant abiotic stress tolerance. <i>Frontiers in Plant Science</i> , 2015, 6, 774.	3.6	124
16	The Methyl-CpG-Binding Protein MBD7 Facilitates Active DNA Demethylation to Limit DNA Hyper-Methylation and Transcriptional Gene Silencing. <i>Molecular Cell</i> , 2015, 57, 971-983.	9.7	112
17	RNA-binding protein regulates plant DNA methylation by controlling mRNA processing at the intronic heterochromatin-containing gene <i>IBM1</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15467-15472.	7.1	91
18	Specific but interdependent functions for <i>AGO</i> 4 and <i>AGO</i> 6 in <i>RNA</i> -directed <i>DNA</i> methylation. <i>EMBO Journal</i> , 2015, 34, 581-592.	7.8	90

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19	Methylation interactions in <i>Arabidopsis</i> 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.	7.1	79
20	Sulfamethazine Suppresses Epigenetic Silencing in <i>Arabidopsis</i> by Impairing Folate Synthesis. <i>Plant Cell</i> , 2012, 24, 1230-1241.	6.6	77
21	Histone acetylation recruits the SWR1 complex to regulate active DNA demethylation in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16641-16650.	7.1	73
22	A naturally occurring epiallele associates with leaf senescence and local climate adaptation in <i>Arabidopsis</i> accessions. <i>Nature Communications</i> , 2018, 9, 460.	12.8	72
23	Rhizobacterium-derived diacetyl modulates plant immunity in a phosphate-dependent manner. <i>EMBO Journal</i> , 2020, 39, e102602.	7.8	66
24	An AP Endonuclease Functions in Active DNA Demethylation and Gene Imprinting in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2015, 11, e1004905.	3.5	53
25	Augmenting iron accumulation in cassava by the beneficial soil bacterium <i>Bacillus subtilis</i> (GBO3). <i>Frontiers in Plant Science</i> , 2015, 6, 596.	3.6	51
26	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.	8.5	49
27	DNA demethylases are required for myo-inositol-mediated mutualism between plants and beneficial rhizobacteria. <i>Nature Plants</i> , 2020, 6, 983-995.	9.3	48
28	An Rrp6-like Protein Positively Regulates Noncoding RNA Levels and DNA Methylation in <i>Arabidopsis</i> . <i>Molecular Cell</i> , 2014, 54, 418-430.	9.7	45
29	Regulation of Active DNA Demethylation by an $\hat{\pm}$ -Crystallin Domain Protein in <i>Arabidopsis</i> . <i>Molecular Cell</i> , 2014, 55, 361-371.	9.7	44
30	Flavonoid-attracted <i>Aeromonas</i> sp. from the <i>Arabidopsis</i> root microbiome enhances plant dehydration resistance. <i>ISME Journal</i> , 2022, 16, 2622-2632.	9.8	44
31	Roles of Nuclear Pores and Nucleo-cytoplasmic Trafficking in Plant Stress Responses. <i>Frontiers in Plant Science</i> , 2017, 08, 574.	3.6	43
32	MET18 Connects the Cytosolic Iron-Sulfur Cluster Assembly Pathway to Active DNA Demethylation in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2015, 11, e1005559.	3.5	43
33	Microbial enhancement of plant nutrient acquisition. <i>Stress Biology</i> , 2022, 2, .	3.1	42
34	Efficient Generation of diRNAs Requires Components in the Posttranscriptional Gene Silencing Pathway. <i>Scientific Reports</i> , 2017, 7, 301.	3.3	34
35	Transcriptional profiling in cotton associated with <i>Bacillus subtilis</i> (UFLA285) induced biotic-stress tolerance. <i>Plant and Soil</i> , 2011, 347, 327-337.	3.7	33
36	Protocol: a beginner's guide to the analysis of RNA-directed DNA methylation in plants. <i>Plant Methods</i> , 2014, 10, 18.	4.3	32

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37	Roles of DEMETER in regulating DNA methylation in vegetative tissues and pathogen resistance. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 691-706.	8.5	26
38	Plant Transcriptome Reprogramming and Bacterial Extracellular Metabolites Underlying Tomato Drought Resistance Triggered by a Beneficial Soil Bacteria. <i>Metabolites</i> , 2021, 11, 369.	2.9	23
39	Four putative SWI2/SNF2 chromatin remodelers have dual roles in regulating DNA methylation in Arabidopsis. <i>Cell Discovery</i> , 2018, 4, 55.	6.7	22
40	Emerging roles of RNA processing factors in regulating long non-coding RNAs. <i>RNA Biology</i> , 2014, 11, 793-797.	3.1	21
41	SAC3B, a central component of the mRNA export complex TREX-2, is required for prevention of epigenetic gene silencing in <i>Arabidopsis</i> . <i>Nucleic Acids Research</i> , 2017, 45, 181-197.	14.5	21
42	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.	12.8	21
43	Beneficial Rhizobacteria Induce Plant Growth: Mapping Signaling Networks in Arabidopsis. <i>Soil Biology</i> , 2011, , 403-412.	0.8	17
44	Seeing the forest for the trees: a wide perspective on RNA-directed DNA methylation: Figure 1.. <i>Genes and Development</i> , 2012, 26, 1769-1773.	5.9	16
45	Chemical probes in plant epigenetics studies. <i>Plant Signaling and Behavior</i> , 2013, 8, e25364.	2.4	16
46	Dicer-like proteins influence Arabidopsis root microbiota independent of RNA-directed DNA methylation. <i>Microbiome</i> , 2021, 9, 57.	11.1	15
47	Bacteria-derived diacetyl enhances Arabidopsis phosphate starvation responses partially through the DELLA-dependent gibberellin signaling pathway. <i>Plant Signaling and Behavior</i> , 2020, 15, 1740872.	2.4	14
48	Genome Sequence of Bacillus megaterium Strain YC4-R4, a Plant Growth-Promoting Rhizobacterium Isolated from a High-Salinity Environment. <i>Genome Announcements</i> , 2018, 6, .	0.8	8
49	Complete Genome Sequence of Bacillus megaterium Strain TG1-E1, a Plant Drought Tolerance-Enhancing Bacterium. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	7
50	Bacterial diacetyl suppresses abiotic stress-induced senescence in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2022, 64, 1135-1139.	8.5	7
51	New discoveries generate new questions about RNA-directed DNA methylation in Arabidopsis. <i>National Science Review</i> , 2017, 4, 10-15.	9.5	6
52	Genome Sequence of Bacillus cereus Strain TG1-6, a Plant-Beneficial Rhizobacterium That Is Highly Salt Tolerant. <i>Genome Announcements</i> , 2018, 6, .	0.8	6
53	AtRRP6L1, a Homolog of Conserved Yeast Exosomal Rrp6p, Plays an Important Role in Transcriptional Gene Silencing in Arabidopsis. <i>Molecular Plant</i> , 2014, 7, 1490-1493.	8.3	5
54	A model for the aberrant DNA methylomes in aging cells and cancer cells. <i>Biochemical Society Transactions</i> , 2019, 47, 997-1003.	3.4	5

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55	Measurements of Root Colonized Bacteria Species. Bio-protocol, 2021, 11, e3976.	0.4	5
56	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
57	Bacterial Volatile-Mediated Plant Abiotic Stress Tolerance. , 2020, , 187-200.		5
58	Plant latent defense response to microbial non-pathogenic factors antagonizes compatibility. National Science Review, 2022, 9, .	9.5	4
59	Partial defoliation of <i>Brachypodium distachyon</i> plants 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
60	Computational Analysis of Genome-Wide ARGONAUTE-Dependent DNA Methylation in Plants. Methods in Molecular Biology, 2017, 1640, 219-225.	0.9	1
61	Editorial: The Interplay Between Epigenetic Regulation and Other Cellular Processes. Frontiers in Genetics, 2021, 12, 691202.	2.3	0