

Zhaobo Lang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,668
citations

218677

26
h-index

289244

40
g-index

41
all docs

41
docs citations

41
times ranked

3816
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	Critical roles of DNA demethylation in the activation of ripening-induced genes and inhibition of ripening-repressed genes in tomato fruit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4511-E4519.	7.1	342
3	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.	7.1	190
4	The DNA demethylase ROS1 targets genomic regions with distinct chromatin modifications. <i>Nature Plants</i> , 2016, 2, 16169.	9.3	147
5	Downregulation of RdDM during strawberry fruit ripening. <i>Genome Biology</i> , 2018, 19, 212.	8.8	147
6	Transcriptome-wide high-throughput deep m6A-seq reveals unique differential m6A methylation patterns between three organs in <i>Arabidopsis thaliana</i> . <i>Genome Biology</i> , 2015, 16, 272.	8.8	145
7	UTR-Dependent Control of Gene Expression in Plants. <i>Trends in Plant Science</i> , 2018, 23, 248-259.	8.8	140
8	Cold responsive gene transcription becomes more complex. <i>Trends in Plant Science</i> , 2015, 20, 466-468.	8.8	119
9	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
10	Genome Editing—Principles and Applications for Functional Genomics Research and Crop Improvement. <i>Critical Reviews in Plant Sciences</i> , 2017, 36, 291-309.	5.7	111
11	Specific but interdependent functions for <i>Arabidopsis</i> AGO4 and AGO6 in RNA-directed DNA methylation. <i>EMBO Journal</i> , 2015, 34, 581-592.	7.8	90
12	The mechanism and function of active DNA demethylation in plants. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 148-159.	8.5	82
13	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
14	Genome editing for horticultural crop improvement. <i>Horticulture Research</i> , 2019, 6, 113.	6.3	79
15	Fruit development and epigenetic modifications. <i>New Phytologist</i> , 2020, 228, 839-844.	7.3	75
16	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
17	Epigenetic memory marks determine epiallele stability at loci targeted by de novo DNA methylation. <i>Nature Plants</i> , 2020, 6, 661-674.	9.3	52
18	Methyl-CpG-Binding Domain Protein MBD7 Is Required for Active DNA Demethylation in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2015, 167, 905-914.	4.8	51

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	An Rrp6-like Protein Positively Regulates Noncoding RNA Levels and DNA Methylation in Arabidopsis. <i>Molecular Cell</i> , 2014, 54, 418-430.	9.7	45
22	Regulation of Active DNA Demethylation by an $\hat{\pm}$ -Crystallin Domain Protein in Arabidopsis. <i>Molecular Cell</i> , 2014, 55, 361-371.	9.7	44
23	A group of SUVH methyl-DNA binding proteins regulate expression of the DNA demethylase ROS1 in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2019, 61, 110-119.	8.5	44
24	Expanding the scope of CRISPR/Cas9-mediated genome editing in plants using an xCas9 and Cas9-NG hybrid. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 398-402.	8.5	36
25	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
26	De novo assembly and analysis of the transcriptome of <i>Ocimum americanum</i> var. <i>pilosum</i> under cold stress. <i>BMC Genomics</i> , 2016, 17, 209.	2.8	30
27	Evolutionary rewiring of the wheat transcriptional regulatory network by lineage-specific transposable elements. <i>Genome Research</i> , 2021, 31, 2276-2289.	5.5	28
28	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
29	Efficient A-T to G-C base conversions in dicots using adenine base editors expressed under the tomato <i>EF1a</i> promoter. <i>Plant Biotechnology Journal</i> , 2023, 21, 5-7.	8.3	18
30	Increasing Freezing Tolerance: Kinase Regulation of ICE1. <i>Developmental Cell</i> , 2015, 32, 257-258.	7.0	17
31	A novel protein complex that regulates active DNA demethylation in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2021, 63, 772-786.	8.5	16
32	The 1001 Arabidopsis DNA Methylomes: An Important Resource for Studying Natural Genetic, Epigenetic, and Phenotypic Variation. <i>Trends in Plant Science</i> , 2016, 21, 906-908.	8.8	13
33	OST1 phosphorylates ICE1 to enhance plant cold tolerance. <i>Science China Life Sciences</i> , 2015, 58, 317-318.	4.9	12
34	Generating Novel Male Sterile Tomatoes by Editing Respiratory Burst Oxidase Homolog Genes. <i>Frontiers in Plant Science</i> , 2021, 12, 817101.	3.6	8
35	Say NO to ABA signaling in guard cells by S-nitrosylation of OST1. <i>Science China Life Sciences</i> , 2015, 58, 313-314.	4.9	7
36	Large-scale identification of expression quantitative trait loci in Arabidopsis reveals novel candidate regulators of immune responses and other processes. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 1469-1484.	8.5	7

#	ARTICLE	IF	CITATIONS
37	MSI4/FVE is required for accumulation of 24â€nt siRNAs and DNA methylation at a subset of target regions of RNAâ€directed DNA methylation. <i>Plant Journal</i> , 2021, 108, 347-357.	5.7	5
38	Genetic analysis implicates a molecular chaperone complex in regulating epigenetic silencing of methylated genomic regions. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 1451-1461.	8.5	5
39	A role of OsROS1 in aleurone development and nutrient improvement in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11659-11660.	7.1	3
40	Small RNA biogenesis: Novel roles of an RNase III enzyme. <i>Nature Plants</i> , 2016, 2, 16021.	9.3	1