Xiaofeng Cao

List of Publications by Year in Descending Order

89 papers	6,940 citations	39 h-index	83 g-index
97 ext. papers	8,769 ext. citations	13.3 avg, IF	5.97 L-index

#	Paper	IF	Citations
89	Biogenesis, action and biological functions of an Arabidopsis 5UtRF, 5UtsR-Ala.. *Science China Life Sciences*, **2022**, 1	8.5	
88	Reproductive tissue-specific translatome of a rice thermo-sensitive genic male sterile line.. *Journal of Genetics and Genomics*, **2022**,	4	1
87	Thermotolerance in rice.. *Science China Life Sciences*, **2022**, 1	8.5	
86	The histone H3K27 demethylase REF6/JMJ12 promotes thermomorphogenesis in .. *National Science Review*, **2022**, 9, nwab213	10.8	4
85	An engineered prime editor with enhanced editing efficiency in plants.. *Nature Biotechnology*, **2022**,	44.5	4
84	Epigenetic regulation of thermomorphogenesis in Arabidopsis thaliana. *ABIOTECH*, **2022**, 3, 12-24	3.9	0
83	Landscape of transcription termination in Arabidopsis revealed by single-molecule nascent RNA sequencing. *Genome Biology*, **2021**, 22, 322	18.3	1
82	DEAD-BOX RNA HELICASE 27 regulates microRNA biogenesis, zygote division, and stem cell homeostasis. *Plant Cell*, **2021**, 33, 66-84	11.6	7
81	CPSF30-L-mediated recognition of mRNA mA modification controls alternative polyadenylation of nitrate signaling-related gene transcripts in Arabidopsis. *Molecular Plant*, **2021**, 14, 688-699	14.4	16
80	Histone methylation in epigenetic regulation and temperature responses. *Current Opinion in Plant Biology*, **2021**, 61, 102001	9.9	9
79	Plant transfer RNA-derived fragments: Biogenesis and functions. *Journal of Integrative Plant Biology*, **2021**, 63, 1399-1409	8.3	2
78	Protein arginine methyltransferase 3 fine-tunes the assembly/disassembly of pre-ribosomes to repress nucleolar stress by interacting with RPS2B in arabidopsis. *Molecular Plant*, **2021**, 14, 223-236	14.4	1
77	Extensive profiling of the expressions of tRNAs and tRNA-derived fragments (tRFs) reveals the complexities of tRNA and tRF populations in plants. *Science China Life Sciences*, **2021**, 64, 495-511	8.5	8
76	The rice histone methylation regulates hub species of the root microbiota. *Journal of Genetics and Genomics*, **2021**, 48, 836-843	4	1
75	Small RNA flow from tapetum cells to germ cells in plants. *Science China Life Sciences*, **2021**, 64, 1977-1978	8.5	0
74	Targeted DNA demethylation produces heritable epialleles in rice. *Science China Life Sciences*, **2021**, 1	8.5	1
73	Precise editing of methylated cytosine in Arabidopsis thaliana using a human APOBEC3Bctd-Cas9 fusion. *Science China Life Sciences*, **2021**, 1	8.5	0

72	Post-transcriptional splicing of nascent RNA contributes to widespread intron retention in plants. *Nature Plants*, **2020**, 6, 780-788	11.5	30
71	Cell-type-dependent histone demethylase specificity promotes meiotic chromosome condensation in Arabidopsis. *Nature Plants*, **2020**, 6, 823-837	11.5	3
70	Processing of coding and non-coding RNAs in plant development and environmental responses. *Essays in Biochemistry*, **2020**, 64, 931-945	7.6	3
69	RNA G-quadruplex structures exist and function in vivo in plants. *Genome Biology*, **2020**, 21, 226	18.3	23
68	Impact of poly(A)-tail G-content on Arabidopsis PAB binding and their role in enhancing translational efficiency. *Genome Biology*, **2019**, 20, 189	18.3	18
67	FIERY1 promotes microRNA accumulation by suppressing rRNA-derived small interfering RNAs in Arabidopsis. *Nature Communications*, **2019**, 10, 4424	17.4	17
66	The Histone H3K4 Demethylase JMJ16 Represses Leaf Senescence in Arabidopsis. *Plant Cell*, **2019**, 31, 430-443	11.6	47
65	Fine-Tuning of MiR528 Accumulation Modulates Flowering Time in Rice. *Molecular Plant*, **2019**, 12, 1103-1113	14.4	30
64	Transcriptional Regulation of miR528 by OsSPL9 Orchestrates Antiviral Response in Rice. *Molecular Plant*, **2019**, 12, 1114-1122	14.4	39
63	DNA methylation repels targeting of Arabidopsis REF6. *Nature Communications*, **2019**, 10, 2063	17.4	25
62	The Arabidopsis H3K27me3 demethylase JUMONJI 13 is a temperature and photoperiod dependent flowering repressor. *Nature Communications*, **2019**, 10, 1303	17.4	45
61	MicroRNAs and Their Regulatory Roles in Plant-Environment Interactions. *Annual Review of Plant Biology*, **2019**, 70, 489-525	30.7	234
60	An H3K27me3 demethylase-HSFA2 regulatory loop orchestrates transgenerational thermomemory in Arabidopsis. *Cell Research*, **2019**, 29, 379-390	24.7	76
59	Developmental Cytoplasmic-to-Nuclear Translocation of RNA-Binding Protein HuR Is Required for Adult Neurogenesis. *Cell Reports*, **2019**, 29, 3101-3117.e7	10.6	12
58	Modulation of Auxin Signaling and Development by Polyadenylation Machinery. *Plant Physiology*, **2019**, 179, 686-699	6.6	9
57	Rice In□Vivo RNA Structurome Reveals RNA Secondary Structure Conservation and Divergence in Plants. *Molecular Plant*, **2018**, 11, 607-622	14.4	29
56	TarHunter, a tool for predicting conserved microRNA targets and target mimics in plants. *Bioinformatics*, **2018**, 34, 1574-1576	7.2	19
55	Ribosomal RNA Biogenesis and Its Response to Chilling Stress in. *Plant Physiology*, **2018**, 177, 381-397	6.6	17

54	Structure of the Arabidopsis JMJ14-H3K4me3 Complex Provides Insight into the Substrate Specificity of KDM5 Subfamily Histone Demethylases. *Plant Cell*, **2018**, 30, 167-177	11.6	26
53	Retrospective and perspective of plant epigenetics in China. *Journal of Genetics and Genomics*, **2018**, 45, 621-638	4	22
52	The seekers: how epigenetic modifying enzymes find their hidden genomic targets in Arabidopsis. *Current Opinion in Plant Biology*, **2018**, 45, 75-81	9.9	21
51	Cotton variant genomes-a breakthrough in population genetics analysis. *Science China Life Sciences*, **2018**, 61, 869-870	8.5	2
50	ROS accumulation and antiviral defence control by microRNA528 in rice. *Nature Plants*, **2017**, 3, 16203	11.5	134
49	An epiallele of rice AK1 affects photosynthetic capacity. *Journal of Integrative Plant Biology*, **2017**, 59, 158-163	8.3	15
48	Transposon-mediated epigenetic regulation contributes to phenotypic diversity and environmental adaptation in rice. *Current Opinion in Plant Biology*, **2017**, 36, 111-118	9.9	45
47	Context and Complexity: Analyzing Methylation in Trinucleotide Sequences. *Trends in Plant Science*, **2017**, 22, 351-353	13.1	8
46	COR27 and COR28 encode nighttime repressors integrating Arabidopsis circadian clock and cold response. *Journal of Integrative Plant Biology*, **2017**, 59, 78-85	8.3	20
45	Nitric Oxide Regulates Protein Methylation during Stress Responses in Plants. *Molecular Cell*, **2017**, 67, 702-710.e4	17.6	57
44	Roles of pre-mRNA splicing and polyadenylation in plant development. *Current Opinion in Plant Biology*, **2017**, 35, 45-53	9.9	33
43	ARGONAUTE10 promotes the degradation of miR165/6 through the SDN1 and SDN2 exonucleases in Arabidopsis. *PLoS Biology*, **2017**, 15, e2001272	9.7	56
42	Epigenetic regulation and epigenomic landscape in rice. *National Science Review*, **2016**, 3, 309-327	10.8	31
41	The ATPase hCINAP regulates 18S rRNA processing and is essential for embryogenesis and tumour growth. *Nature Communications*, **2016**, 7, 12310	17.4	28
40	Small RNA Extraction and Detection in Rice (Oryza sativa). *Current Protocols in Plant Biology*, **2016**, 1, 79-87	2.8	
39	The effect of transposable elements on phenotypic variation: insights from plants to humans. *Science China Life Sciences*, **2016**, 59, 24-37	8.5	36
38	Drosophila Homolog of FMRP Maintains Genome Integrity by Interacting with Piwi. *Journal of Genetics and Genomics*, **2016**, 43, 11-24	4	13
37	RNA Binding Proteins RZ-1B and RZ-1C Play Critical Roles in Regulating Pre-mRNA Splicing and Gene Expression during Development in Arabidopsis. *Plant Cell*, **2016**, 28, 55-73	11.6	40

36	ABI4 mediates antagonistic effects of abscisic acid and gibberellins at transcript and protein levels. *Plant Journal*, **2016**, 85, 348-61	6.9	90
35	WRKY71 accelerates flowering via the direct activation of FLOWERING LOCUS T and LEAFY in Arabidopsis thaliana. *Plant Journal*, **2016**, 85, 96-106	6.9	60
34	Concerted genomic targeting of H3K27 demethylase REF6 and chromatin-remodeling ATPase BRM in Arabidopsis. *Nature Genetics*, **2016**, 48, 687-93	36.3	122
33	REF6 recognizes a specific DNA sequence to demethylate H3K27me3 and regulate organ boundary formation in Arabidopsis. *Nature Genetics*, **2016**, 48, 694-9	36.3	96
32	Recruitment of the NineTeen Complex to the activated spliceosome requires AtPRMT5. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 5447-52	11.5	27
31	Integrated analysis of phenome, genome, and transcriptome of hybrid rice uncovered multiple heterosis-related loci for yield increase. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E6026-E6035	11.5	79
30	Whole genome sequencing of cotton--a new chapter in cotton genomics. *Science China Life Sciences* , **2015**, 58, 515-6	8.5	18
29	C-terminal domains of a histone demethylase interact with a pair of transcription factors and mediate specific chromatin association. *Cell Discovery*, **2015**, 1,	22.3	33
28	New players in ABA signaling: identification of PUB12/13 involved in degradation of ABA co-receptor ABI1. *Science China Life Sciences*, **2015**, 58, 1173-4	8.5	3
27	Integrative genome-wide analysis reveals HLP1, a novel RNA-binding protein, regulates plant flowering by targeting alternative polyadenylation. *Cell Research*, **2015**, 25, 864-76	24.7	61
26	Epigenetic Mutation of RAV6 Affects Leaf Angle and Seed Size in Rice. *Plant Physiology*, **2015**, 169, 2118-28	6.8	65
25	Arabidopsis protein arginine methyltransferase 3 is required for ribosome biogenesis by affecting precursor ribosomal RNA processing. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 16190-5	11.5	48
24	Epigenetic reprogramming that prevents transgenerational inheritance of the vernalized state. *Nature*, **2014**, 515, 587-90	50.4	171
23	Epigenetic regulation and functional exaptation of transposable elements in higher plants. *Current Opinion in Plant Biology*, **2014**, 21, 83-88	9.9	44
22	RNase Z(S1) processes UbL40 mRNAs and controls thermosensitive genic male sterility in rice. *Nature Communications*, **2014**, 5, 4884	17.4	127
21	Mutation of a major CG methylase in rice causes genome-wide hypomethylation, dysregulated genome expression, and seedling lethality. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10642-7	11.5	119
20	NOT2 proteins promote polymerase II-dependent transcription and interact with multiple MicroRNA biogenesis factors in Arabidopsis. *Plant Cell*, **2013**, 25, 715-27	11.6	113
19	MicroRNAs inhibit the translation of target mRNAs on the endoplasmic reticulum in Arabidopsis. *Cell*, **2013**, 153, 562-74	56.2	353

18	Trip to ER: MicroRNA-mediated translational repression in plants. *RNA Biology*, **2013**, 10, 1586-92	4.8	13
17	Control of transposon activity by a histone H3K4 demethylase in rice. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 1953-8	11.5	78
16	Rice RNA-dependent RNA polymerase 6 acts in small RNA biogenesis and spikelet development. *Plant Journal*, **2012**, 71, 378-89	6.9	70
15	Plant PRMTs broaden the scope of arginine methylation. *Journal of Genetics and Genomics*, **2012**, 39, 195-208	4	32
14	Roles of DCL4 and DCL3b in rice phased small RNA biogenesis. *Plant Journal*, **2012**, 69, 462-74	6.9	224
13	Arabidopsis REF6 is a histone H3 lysine 27 demethylase. *Nature Genetics*, **2011**, 43, 715-9	36.3	259
12	JMJ14 is an H3K4 demethylase regulating flowering time in Arabidopsis. *Cell Research*, **2010**, 20, 387-90	24.7	117
11	Arginine methylation mediated by the Arabidopsis homolog of PRMT5 is essential for proper pre-mRNA splicing. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 19114-9	11.5	135
10	Histone methylation in higher plants. *Annual Review of Plant Biology*, **2010**, 61, 395-420	30.7	387
9	Degradome sequencing reveals endogenous small RNA targets in rice (Oryza sativa L. ssp. indica). *Frontiers in Biology*, **2010**, 5, 67-90		132
8	Comparative analysis of JmjC domain-containing proteins reveals the potential histone demethylases in Arabidopsis and rice. *Journal of Integrative Plant Biology*, **2008**, 50, 886-96	8.3	134
7	Mutations in the Type II protein arginine methyltransferase AtPRMT5 result in pleiotropic developmental defects in Arabidopsis. *Plant Physiology*, **2007**, 144, 1913-23	6.6	75
6	Involvement of the Histone Acetyltransferase AtHAC1 in the Regulation of Flowering Time via Repression of FLOWERING LOCUS C in Arabidopsis. *Plant Physiology*, **2007**, 143, 1660-1668	6.6	67
5	Oryza sativa dicer-like4 reveals a key role for small interfering RNA silencing in plant development. *Plant Cell*, **2007**, 19, 2705-18	11.6	115
4	Role of the DRM and CMT3 methyltransferases in RNA-directed DNA methylation. *Current Biology*, **2003**, 13, 2212-7	6.3	411
3	Role of the arabidopsis DRM methyltransferases in de novo DNA methylation and gene silencing. *Current Biology*, **2002**, 12, 1138-44	6.3	597
2	Locus-specific control of asymmetric and CpNpG methylation by the DRM and CMT3 methyltransferase genes. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99 Suppl 4, 16491-8	11.5	454
1	Requirement of CHROMOMETHYLASE3 for maintenance of CpXpG methylation. *Science*, **2001**, 292, 2077-80	33.9	678