Jian-Kang Zhu

List of Publications by Year
in descending order

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530 papers	120,434 citations	100 170 h-index	170 327 g-index
556 all docs	556 docs citations	556 times ranked	53554 citing authors

#	Article	IF	Citations
1	Abiotic stress responses in plants. Nature Reviews Genetics, 2022, 23, 104-119.	7.7	710
2	Acetylproteomics analyses reveal critical features of lysine-Îµ-acetylation in Arabidopsis and a role of 14-3-3 protein acetylation in alkaline response. Stress Biology, 2022, 2, .	1.5	7
3	The tomato OST1â€“VOZ1 module regulates drought-mediated flowering. Plant Cell, 2022, 34, 2001-2018.	3.1	40
4	SUMO E3 ligase SIZ1 negatively regulates arsenite resistance via depressing GSH biosynthesis in Arabidopsis. Stress Biology, 2022, 2, 1.	1.5	1
5	A novel mitochondrial protein is required for cell wall integrity, auxin accumulation and root elongation in Arabidopsis under salt stress. Stress Biology, 2022, 2, 1.	1.5	3
6	DNA methylation-free Arabidopsis reveals crucial roles of DNA methylation in regulating gene expression and development. Nature Communications, 2022, 13, 1335.	5.8	81
7	MAG2 and MAL Regulate Vesicle Trafficking and Auxin Homeostasis With Functional Redundancy. Frontiers in Plant Science, 2022, 13, 849532.	1.7	0
8	The future of gene-edited crops in China. National Science Review, 2022, 9, nwac063.	4.6	7
9	Improvement of base editors and prime editors advances precision genome engineering in plants. Plant Physiology, 2022, 188, 1795-1810.	2.3	24
10	Phosphorylation of SWEET sucrose transporters regulates plant root:shoot ratio under drought. Nature Plants, 2022, 8, 68-77.	4.7	91
11	Efficient Câ€toâ€G editing in rice using an optimized base editor. Plant Biotechnology Journal, 2022, 20, 1238-1240.	4.1	23
12	Stalk cell polar ion transport provide for bladderâ€based salinity tolerance in Chenopodium quinoa. New Phytologist, 2022, 235, 1822-1835.	3.5	8
13	Lipid metabolism dysfunction induced by age-dependent DNA methylation accelerates aging. Signal Transduction and Targeted Therapy, 2022, 7, .	7.1	24
14	Plant latent defense response to microbial non-pathogenic factors antagonizes compatibility. National Science Review, 2022, 9, .	4.6	4
15	Natural variations in SlSOS1 contribute to the loss of salt tolerance during tomato domestication. Plant Biotechnology Journal, 2021, 19, 20-22.	4.1	43
16	The LRXs-RALFs-FER module controls plant growth and salt stress responses by modulating multiple plant hormones. National Science Review, 2021, 8, nwaa149.	4.6	50
17	Precise genome modification in tomato using an improved prime editing system. Plant Biotechnology Journal, 2021, 19, 415-417.	4.1	89
18	Roles of DEMETER in regulating DNA methylation in vegetative tissues and pathogen resistance. Journal of Integrative Plant Biology, 2021, 63, 691-706.	4.1	26

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19	CRISPR/Cas9-Based Genome Editing Toolbox for Arabidopsis thaliana. Methods in Molecular Biology, 2021, 2200, 121-146.	0.4	14
20	A novel protein complex that regulates active DNA demethylation in Arabidopsis. Journal of Integrative Plant Biology, 2021, 63, 772-786.	4.1	16
21	Genome editing for plant research and crop improvement. Journal of Integrative Plant Biology, 2021, 63, 3-33.	4.1	70
22	Gene Targeting Facilitated by Engineered Sequence-Specific Nucleases: Potential Applications for Crop Improvement. Plant and Cell Physiology, 2021, 62, 752-765.	1.5	6
23	Dicer-like proteins influence Arabidopsis root microbiota independent of RNA-directed DNA methylation. Microbiome, 2021, 9, 57.	4.9	15
24	Mediator tail module subunits MED16 and MED25 differentially regulate abscisic acid signaling in Arabidopsis. Journal of Integrative Plant Biology, 2021, 63, 802-815.	4.1	23
25	Precision genome editing heralds rapid de novo domestication for new crops. Cell, 2021, 184, 1133-1134.	13.5	17
26	General Control Non-derepressible 1 (AtGCN1) Is Important for Flowering Time, Plant Growth, Seed Development, and the Transcription/Translation of Specific Genes in Arabidopsis. Frontiers in Plant Science, 2021, 12, 630311.	1.7	3
27	Genomeâ€wide distribution and functions of the AAE complex in epigenetic regulation in Arabidopsis. Journal of Integrative Plant Biology, 2021, 63, 707-722.	4.1	18
28	Initiation and amplification of SnRK2 activation in abscisic acid signaling. Nature Communications, 2021, 12, 2456.	5.8	86
29	Efficient generation of homozygous substitutions in rice in one generation utilizing an rABE8e base editor. Journal of Integrative Plant Biology, 2021, 63, 1595-1599.	4.1	30
30	Novel Wx alleles generated by base editing for improvement of rice grain quality. Journal of Integrative Plant Biology, 2021, 63, 1632-1638.	4.1	17
31	A domesticated Harbinger transposase forms a complex with HDA6 and promotes histone H3 deacetylation at genes but not TEs in Arabidopsis. Journal of Integrative Plant Biology, 2021, 63, 1462-1474.	4.1	14
32	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.	5.8	21
33	AtSEC22 Regulates Cell Morphogenesis via Affecting Cytoskeleton Organization and Stabilities. Frontiers in Plant Science, 2021, 12, 635732.	1.7	9
34	Creation of aromatic maize by CRISPR/Cas. Journal of Integrative Plant Biology, 2021, 63, 1664-1670.	4.1	34
35	Plant genome engineering from lab to fieldâ€”a Keystone Symposia report. Annals of the New York Academy of Sciences, 2021, 1506, 35-54.	1.8	4
36	The Arabidopsis spliceosomal protein SmEb modulates ABA responses by maintaining proper alternative splicing of HAB1. Stress Biology, 2021, 1, 1.	1.5	4

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37	Intragenic heterochromatinâ€mediated alternative polyadenylation modulates miRNA and pollen development in rice. New Phytologist, 2021, 232, 835-852.	3.5	16
38	MSI4/FVE is required for accumulation of 24â€nt siRNAs and DNA methylation at a subset of target regions of RNAâ€directed DNA methylation. Plant Journal, 2021, 108, 347-357.	2.8	5
39	Genetic analysis implicates a molecular chaperone complex in regulating epigenetic silencing of methylated genomic regions. Journal of Integrative Plant Biology, 2021, 63, 1451-1461.	4.1	5
40	Pathway conversion enables a double-lock mechanism to maintain DNA methylation and genome stability. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
41	SWO1 modulates cell wall integrity under salt stress by interacting with importin É‘ in Arabidopsis. Stress Biology, 2021, 1, 1.	1.5	6
42	The power and versatility of genome editing tools in crop improvement. Journal of Integrative Plant Biology, 2021, 63, 1591-1594.	4.1	5
43	Expanding the target range of base editing in plants without loss of efficiency by blocking RNAâ€silencing. Plant Biotechnology Journal, 2021, 19, 2389-2391.	4.1	4
44	Comparative physiological and transcriptomic analysis reveals salinity tolerance mechanisms in Sorghum bicolor (L.) Moench. Planta, 2021, 254, 98.	1.6	7
45	A donor-DNA-free CRISPR/Cas-based approach to gene knock-up in rice. Nature Plants, 2021, 7, 1445-1452.	4.7	44
46	Non-CG DNA methylation-deficiency mutations enhance mutagenesis rates during salt adaptation in cultured Arabidopsis cells. Stress Biology, 2021, 1, 1.	1.5	7
47	Mechanism of phosphate sensing and signaling revealed by rice SPX1-PHR2 complex structure. Nature Communications, 2021, 12, 7040.	5.8	37
48	Mutations in <scp>MIR</scp>396e and <scp>MIR</scp>396f increase grain size and modulate shoot architecture in rice. Plant Biotechnology Journal, 2020, 18, 491-501.	4.1	71
49	Simplified adenine base editors improve adenine base editing efficiency in rice. Plant Biotechnology Journal, 2020, 18, 770-778.	4.1	72
50	Gene targeting in Arabidopsis via an allâ€inâ€one strategy that uses a translational enhancer to aid Cas9 expression. Plant Biotechnology Journal, 2020, 18, 892-894.	4.1	23
51	Abscisic acid dynamics, signaling, and functions in plants. Journal of Integrative Plant Biology, 2020, 62, 25-54.	4.1	771
52	STCH4/REIL2 Confers Cold Stress Tolerance in Arabidopsis by Promoting rRNA Processing and CBF Protein Translation. Cell Reports, 2020, 30, 229-242.e5.	2.9	52
53	Disruption of MIR396e and MIR396f improves rice yield under nitrogen-deficient conditions. National Science Review, 2020, 7, 102-112.	4.6	71
54	Two Chloroplast Proteins Negatively Regulate Plant Drought Resistance Through Separate Pathways. Plant Physiology, 2020, 182, 1007-1021.	2.3	32

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55	Epigenetic regulation in plant abiotic stress responses. Journal of Integrative Plant Biology, 2020, 62, 563-580.	4.1	292
56	The plasmaâ€membrane polyamine transporter PUT3 is regulated by the Na⁺/H⁺ antiporter SOS1 and protein kinase SOS2. New Phytologist, 2020, 226, 785-797.	3.5	36
57	SIZ1-Mediated SUMOylation ofÂROS1 Enhances Its Stability and Positively Regulates Active DNA Demethylation in Arabidopsis. Molecular Plant, 2020, 13, 1816-1824.	3.9	20
58	BONZAI Proteins Control Global Osmotic Stress Responses in Plants. Current Biology, 2020, 30, 4815-4825.e4.	1.8	39
59	DNA demethylases are required for myo-inositol-mediated mutualism between plants and beneficial rhizobacteria. Nature Plants, 2020, 6, 983-995.	4.7	48
60	Thriving under Stress: How Plants Balance Growth and the Stress Response. Developmental Cell, 2020, 55, 529-543.	3.1	283
61	Coupling of H3K27me3 recognition with transcriptional repression through the BAH-PHD-CPL2 complex in Arabidopsis. Nature Communications, 2020, 11, 6212.	5.8	38
62	Rice Protein Tagging Project: A Call for International Collaborations on Genome-wide In-Locus Tagging of Rice Proteins. Molecular Plant, 2020, 13, 1663-1665.	3.9	11
63	Chemical Manipulation of Abscisic Acid Signaling: A New Approach to Abiotic and Biotic Stress Management in Agriculture. Advanced Science, 2020, 7, 2001265.	5.6	67
64	Precision genome engineering in rice using prime editing system. Plant Biotechnology Journal, 2020, 18, 2167-2169.	4.1	117
65	The CCR4â€NOT complex component NOT1 regulates RNAâ€directed DNA methylation and transcriptional silencing by facilitating Pol IVâ€dependent siRNA production. Plant Journal, 2020, 103, 1503-1515.	2.8	10
66	Mechanisms of Plant Responses and Adaptation to Soil Salinity. Innovation(China), 2020, 1, 100017.	5.2	387
67	Reciprocal regulation between nicotinamide adenine dinucleotide metabolism and abscisic acid and stress response pathways in Arabidopsis. PLoS Genetics, 2020, 16, e1008892.	1.5	22
68	Epigenetic memory marks determine epiallele stability at loci targeted by de novo DNA methylation. Nature Plants, 2020, 6, 661-674.	4.7	52
69	RNAâ€directed DNA methylation has an important developmental function in Arabidopsis that is masked by the chromatin remodeler PICKLE. Journal of Integrative Plant Biology, 2020, 62, 1647-1652.	4.1	4
70	Loss of salt tolerance during tomato domestication conferred by variation in a Na ⁺ /K ⁺ transporter. EMBO Journal, 2020, 39, e103256.	3.5	112
71	Plant abiotic stress response and nutrient use efficiency. Science China Life Sciences, 2020, 63, 635-674.	2.3	689
72	CDK8 is associated with RAP2.6 and SnRK2.6 and positively modulates abscisic acid signaling and drought response in Arabidopsis. New Phytologist, 2020, 228, 1573-1590.	3.5	50

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73	Targeted, efficient sequence insertion and replacement in rice. Nature Biotechnology, 2020, 38, 1402-1407.	9.4	125
74	The transcription factor ICE1 functions in cold stress response by binding to the promoters of CBF and COR genes. Journal of Integrative Plant Biology, 2020, 62, 258-263.	4.1	82
75	Mapping proteome-wide targets of protein kinases in plant stress responses. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3270-3280.	3.3	102
76	A RAF-SnRK2 kinase cascade mediates early osmotic stress signaling in higher plants. Nature Communications, 2020, 11, 613.	5.8	147
77	DNA methylation markers in the diagnosis and prognosis of common leukemias. Signal Transduction and Targeted Therapy, 2020, 5, 3.	7.1	27
78	Impaired lipid metabolism by age-dependent DNA methylation alterations accelerates aging. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4328-4336.	3.3	24
79	TPST is involved in fructose regulation of primary root growth in Arabidopsis thaliana. Plant Molecular Biology, 2020, 103, 511-525.	2.0	13
80	Largeâ€scale identification of expression quantitative trait loci in Arabidopsis reveals novel candidate regulators of immune responses and other processes. Journal of Integrative Plant Biology, 2020, 62, 1469-1484.	4.1	7
81	Rhizobacteriumâ€derived diacetyl modulates plant immunity in a phosphateâ€dependent manner. EMBO Journal, 2020, 39, e102602.	3.5	66
82	A virus-encoded protein suppresses methylation of the viral genome through its interaction with AGO4 in the Cajal body. ELife, 2020, 9, .	2.8	40
83	Expanding the base editing scope in rice by using Cas9 variants. Plant Biotechnology Journal, 2019, 17, 499-504.	4.1	168
84	Nucleocytoplasmic Trafficking of the Arabidopsis WD40 Repeat Protein XIW1 Regulates ABI5 Stability and Abscisic Acid Responses. Molecular Plant, 2019, 12, 1598-1611.	3.9	51
85	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.	3.3	73
86	The grain yield modulator miR156 regulates seed dormancy through the gibberellin pathway in rice. Nature Communications, 2019, 10, 3822.	5.8	107
87	Perspectives on the Application of Genome-Editing Technologies in Crop Breeding. Molecular Plant, 2019, 12, 1047-1059.	3.9	118
88	A model for the aberrant DNA methylomes in aging cells and cancer cells. Biochemical Society Transactions, 2019, 47, 997-1003.	1.6	5
89	A Role for PICKLE in the Regulation of Cold and Salt Stress Tolerance in Arabidopsis. Frontiers in Plant Science, 2019, 10, 900.	1.7	58
90	Gene editing in plants: progress and challenges. National Science Review, 2019, 6, 421-437.	4.6	215

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91	EXPORTIN 1A prevents transgene silencing in Arabidopsis by modulating nucleoâ€cytoplasmic partitioning of HDA6. Journal of Integrative Plant Biology, 2019, 61, 1243-1254.	4.1	11
92	The genome of broomcorn millet. Nature Communications, 2019, 10, 436.	5.8	130
93	Cystic pancreatic neuroendocrine tumors: A distinctive subgroup with indolent biological behavior? A systematic review and meta-analysis. Pancreatology, 2019, 19, 738-750.	0.5	11
94	Bipartite anchoring of SCREAM enforces stomatal initiation by coupling MAP kinases to SPEECHLESS. Nature Plants, 2019, 5, 742-754.	4.7	55
95	DEMETER plays a role in DNA demethylation and disease response in somatic tissues of Arabidopsis. Epigenetics, 2019, 14, 1074-1087.	1.3	32
96	Peroxisomal Î²-oxidation regulates histone acetylation and DNA methylation in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10576-10585.	3.3	32
97	Arabinose biosynthesis is critical for salt stress tolerance in Arabidopsis. New Phytologist, 2019, 224, 274-290.	3.5	64
98	Genome Engineering in Rice Using Cas9 Variants that Recognize NG PAM Sequences. Molecular Plant, 2019, 12, 1003-1014.	3.9	116
99	Optimizing base editors for improved efficiency and expanded editing scope in rice. Plant Biotechnology Journal, 2019, 17, 1697-1699.	4.1	58
100	A group of SUVH methylâ€Ðbinding proteins regulate expression of the DNA demethylase ROS1 in Arabidopsis. Journal of Integrative Plant Biology, 2019, 61, 110-119.	4.1	44
101	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.	4.1	49
102	Global increase in DNA methylation during orange fruit development and ripening. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1430-1436.	3.3	190
103	Precise AÂ·T to GÂ·C Base Editing in the Rice Genome. Molecular Plant, 2018, 11, 627-630.	3.9	195
104	Reactive oxygen species signaling and stomatal movement in plant responses to drought stress and pathogen attack. Journal of Integrative Plant Biology, 2018, 60, 805-826.	4.1	397
105	EAR1 Negatively Regulates ABA Signaling by Enhancing 2C Protein Phosphatase Activity. Plant Cell, 2018, 30, 815-834.	3.1	111
106	A naturally occurring epiallele associates with leaf senescence and local climate adaptation in Arabidopsis accessions. Nature Communications, 2018, 9, 460.	5.8	72
107	Interaction network of core ABA signaling components in maize. Plant Molecular Biology, 2018, 96, 245-263.	2.0	51
108	A virus-targeted plant receptor-like kinase promotes cell-to-cell spread of RNAi. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1388-1393.	3.3	203

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109	Knockdown of Rice MicroRNA166 Confers Drought Resistance by Causing Leaf Rolling and Altering Stem Xylem Development. Plant Physiology, 2018, 176, 2082-2094.	2.3	198
110	Reciprocal Regulation of the TOR Kinase and ABA Receptor Balances Plant Growth and Stress Response. Molecular Cell, 2018, 69, 100-112.e6.	4.5	385
111	Spliceosomal protein U1A is involved in alternative splicing and salt stress tolerance in Arabidopsis thaliana. Nucleic Acids Research, 2018, 46, 1777-1792.	6.5	57
112	EL1-like Casein Kinases Suppress ABA Signaling and Responses by Phosphorylating and Destabilizing the ABA Receptors PYR/PYLs in Arabidopsis. Molecular Plant, 2018, 11, 706-719.	3.9	72
113	Upstream kinases of plant Sn<scp>RK</scp>s are involved in salt stress tolerance. Plant Journal, 2018, 93, 107-118.	2.8	64
114	UTR-Dependent Control of Gene Expression in Plants. Trends in Plant Science, 2018, 23, 248-259.	4.3	140
115	Generation of new glutinous rice by CRISPR/Cas9â€targeted mutagenesis of the Waxy gene in elite rice varieties. Journal of Integrative Plant Biology, 2018, 60, 369-375.	4.1	198
116	Experimental reconstruction of doubleâ€stranded break repairâ€mediated plastid <scp>DNA</scp> insertion into the tobacco nucleus. Plant Journal, 2018, 93, 227-234.	2.8	6
117	Developing naturally stress-resistant crops for a sustainable agriculture. Nature Plants, 2018, 4, 989-996.	4.7	186
118	A Highly Efficient Cell Division-Specific CRISPR/Cas9 System Generates Homozygous Mutants for Multiple Genes in Arabidopsis. International Journal of Molecular Sciences, 2018, 19, 3925.	1.8	43
119	Leucine-rich repeat extensin proteins regulate plant salt tolerance in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 13123-13128.	3.3	224
120	Downregulation of RdDM during strawberry fruit ripening. Genome Biology, 2018, 19, 212.	3.8	147
121	DNA demethylase ROS1 negatively regulates the imprinting of DOGL4 and seed dormancy in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9962-E9970.	3.3	46
122	Understanding the Molecular Basis of Salt Sequestration in Epidermal Bladder Cells of Chenopodium quinoa. Current Biology, 2018, 28, 3075-3085.e7.	1.8	98
123	Manipulating plant RNA-silencing pathways to improve the gene editing efficiency of CRISPR/Cas9 systems. Genome Biology, 2018, 19, 149.	3.8	40
124	Retrospective and perspective of plant epigenetics in China. Journal of Genetics and Genomics, 2018, 45, 621-638.	1.7	45
125	Four putative SWI2/SNF2 chromatin remodelers have dual roles in regulating DNA methylation in Arabidopsis. Cell Discovery, 2018, 4, 55.	3.1	22
126	Arabidopsis AGDP1 links H3K9me2 to DNA methylation in heterochromatin. Nature Communications, 2018, 9, 4547.	5.8	66

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127	Multiplex gene editing in rice with simplified CRISPRâ€Cpf1 and CRISPRâ€Cas9 systems. Journal of Integrative Plant Biology, 2018, 60, 626-631.	4.1	87
128	CRISPR/Cas9-mediated gene targeting in Arabidopsis using sequential transformation. Nature Communications, 2018, 9, 1967.	5.8	178
129	Dynamics and function of DNA methylation in plants. Nature Reviews Molecular Cell Biology, 2018, 19, 489-506.	16.1	1,145
130	Mutations in a subfamily of abscisic acid receptor genes promote rice growth and productivity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6058-6063.	3.3	284
131	Epigenetic switch from repressive to permissive chromatin in response to cold stress. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5400-E5409.	3.3	157
132	MYC-type transcription factors, MYC67 and MYC70, interact with ICE1 and negatively regulate cold tolerance in Arabidopsis. Scientific Reports, 2018, 8, 11622.	1.6	21
133	Universal Plant Phosphoproteomics Workflow and Its Application to Tomato Signaling in Response to Cold Stress*. Molecular and Cellular Proteomics, 2018, 17, 2068-2080.	2.5	57
134	High-Throughput Phosphorylation Screening and Validation through Ti(IV)-Nanopolymer Functionalized Reverse Phase Phosphoprotein Array. Analytical Chemistry, 2018, 90, 10263-10270.	3.2	3
135	The Flowering Repressor SVP Confers Drought Resistance in Arabidopsis by Regulating Abscisic Acid Catabolism. Molecular Plant, 2018, 11, 1184-1197.	3.9	83
136	Arabidopsis Duodecuple Mutant of PYL ABA Receptors Reveals PYL Repression of ABA-Independent SnRK2 Activity. Cell Reports, 2018, 23, 3340-3351.e5.	2.9	153
137	Transposable elements (<scp>TE</scp>s) contribute to stressâ€related long intergenic noncoding <scp>RNA</scp>s in plants. Plant Journal, 2017, 90, 133-146.	2.8	116
138	Phosphoproteins in extracellular vesicles as candidate markers for breast cancer. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3175-3180.	3.3	328
139	A Novel Chemical Inhibitor of ABA Signaling Targets All ABA Receptors. Plant Physiology, 2017, 173, 2356-2369.	2.3	47
140	New discoveries generate new questions about RNA-directed DNA methylation in Arabidopsis. National Science Review, 2017, 4, 10-15.	4.6	6
141	SALT OVERLY SENSITIVE 2 (SOS2) and Interacting Partners SOS3 and ABSCISIC ACIDâ€"INSENSITIVE 2 (ABI2) Promote Red-Light-Dependent Germination and Seedling Deetiolation in Arabidopsis. International Journal of Plant Sciences, 2017, 178, 485-493.	0.6	16
142	Critical roles of DNA demethylation in the activation of ripening-induced genes and inhibition of ripening-repressed genes in tomato fruit. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4511-E4519.	3.3	342
143	Short tandem target mimic rice lines uncover functions of miRNAs in regulating important agronomic traits. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5277-5282.	3.3	126
144	Genome-wide Targeted Mutagenesis in Rice Using the CRISPR/Cas9 System. Molecular Plant, 2017, 10, 1242-1245.	3.9	242

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145	The developmental regulator PKL is required to maintain correct DNA methylation patterns at RNA-directed DNA methylation loci. Genome Biology, 2017, 18, 103.	3.8	44
146	Computational Analysis of Genome-Wide ARGONAUTE-Dependent DNA Methylation in Plants. Methods in Molecular Biology, 2017, 1640, 219-225.	0.4	1
147	Dissecting the Subnuclear Localization Patterns of Argonaute Proteins and Other Components of the RNA-Directed DNA Methylation Pathway in Plants. Methods in Molecular Biology, 2017, 1640, 129-135.	0.4	1
148	Efficient Generation of diRNAs Requires Components in the Posttranscriptional Gene Silencing Pathway. Scientific Reports, 2017, 7, 301.	1.6	34
149	Estimating the Efficiency of Phosphopeptide Identification by Tandem Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2017, 28, 1127-1135.	1.2	6
150	Multiplex Gene Editing in Rice Using the CRISPR-Cpf1 System. Molecular Plant, 2017, 10, 1011-1013.	3.9	258
151	Gene Targeting by Homology-Directed Repair inÂRice Using a Geminivirus-Based CRISPR/Cas9 System. Molecular Plant, 2017, 10, 1007-1010.	3.9	191
152	Precise Editing of a Target Base in the Rice Genome Using a Modified CRISPR/Cas9 System. Molecular Plant, 2017, 10, 523-525.	3.9	352
153	A pair of transposon-derived proteins function in a histone acetyltransferase complex for active DNA demethylation. Cell Research, 2017, 27, 226-240.	5.7	80
154	Combining chemical and genetic approaches to increase drought resistance in plants. Nature Communications, 2017, 8, 1183.	5.8	108
155	Structure determination and activity manipulation of the turfgrass ABA receptor FePYR1. Scientific Reports, 2017, 7, 14022.	1.6	16
156	Circulating tumour DNA methylation markers for diagnosis and prognosis of hepatocellular carcinoma. Nature Materials, 2017, 16, 1155-1161.	13.3	641
157	MAP Kinase Cascades Regulate the Cold Response by Modulating ICE1 Protein Stability. Developmental Cell, 2017, 43, 618-629.e5.	3.1	359
158	A protein complex regulates RNA processing of intronic heterochromatin-containing genes in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7377-E7384.	3.3	74
159	Genome Editingâ€"Principles and Applications for Functional Genomics Research and Crop Improvement. Critical Reviews in Plant Sciences, 2017, 36, 291-309.	2.7	111
160	A high-quality genome assembly of quinoa provides insights into the molecular basis of salt bladder-based salinity tolerance and the exceptional nutritional value. Cell Research, 2017, 27, 1327-1340.	5.7	170
161	DNA methylation markers for diagnosis and prognosis of common cancers. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7414-7419.	3.3	387
162	Control of Plant Water Use by ABA Induction of Senescence and Dormancy: An Overlooked Lesson from Evolution. Plant and Cell Physiology, 2017, 58, 1319-1327.	1.5	51

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163	The inhibition of protein translation mediated by AtGCN1 is essential for cold tolerance in Arabidopsis thaliana. Plant, Cell and Environment, 2017, 40, 56-68.	2.8	107
164	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.	6.5	21
165	Heritability of targeted gene modifications induced by plant-optimized CRISPR systems. Cellular and Molecular Life Sciences, 2017, 74, 1075-1093.	2.4	44
166	Roles of Nuclear Pores and Nucleo-cytoplasmic Trafficking in Plant Stress Responses. Frontiers in Plant Science, 2017, 08, 574.	1.7	43
167	Nitric Oxide and Hydrogen Peroxide Mediate Wounding-Induced Freezing Tolerance through Modifications in Photosystem and Antioxidant System in Wheat. Frontiers in Plant Science, 2017, 8, 1284.	1.7	37
168	Accession-Dependent CBF Gene Deletion by CRISPR/Cas System in Arabidopsis. Frontiers in Plant Science, 2017, 8, 1910.	1.7	17
169	The SnRK2 kinases modulate miRNA accumulation in Arabidopsis. PLoS Genetics, 2017, 13, e1006753.	1.5	87
170	An Arabidopsis Nucleoporin NUP85 modulates plant responses to ABA and salt stress. PLoS Genetics, 2017, 13, e1007124.	1.5	72
171	The miR165/166 Mediated Regulatory Module Plays Critical Roles in ABA Homeostasis and Response in Arabidopsis thaliana. PLoS Genetics, 2016, 12, e1006416.	1.5	91
172	Requirement for flap endonuclease 1 (<scp>FEN</scp>1) to maintain genomic stability and transcriptional gene silencing in Arabidopsis. Plant Journal, 2016, 87, 629-640.	2.8	17
173	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.	3.3	79
174	<scp>RDM</scp>4 modulates cold stress resistance in Arabidopsis partially through the <scp>CBF</scp>â€mediated pathway. New Phytologist, 2016, 209, 1527-1539.	3.5	54
175	The second subunit of DNA-polymerase delta is required for genomic stability and epigenetic regulation. Plant Physiology, 2016, 171, pp.01976.2015.	2.3	15
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