

Jian-Kang Zhu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

528 papers	90,928 citations	156 h-index	293 g-index
554 ext. papers	107,800 ext. citations	11.1 avg, IF	8.68 L-index

#	Paper	IF	Citations
528	The tomato OST1-VOZ1 module regulates drought-mediated flowering.. <i>Plant Cell</i> , 2022 ,	11.6	4
527	SUMO E3 ligase SIZ1 negatively regulates arsenite resistance via depressing GSH biosynthesis in Arabidopsis. <i>Stress Biology</i> , 2022 , 2, 1		
526	DNA methylation-free Arabidopsis reveals crucial roles of DNA methylation in regulating gene expression and development.. <i>Nature Communications</i> , 2022 , 13, 1335	17.4	0
525	MAG2 and MAL Regulate Vesicle Trafficking and Auxin Homeostasis With Functional Redundancy.. <i>Frontiers in Plant Science</i> , 2022 , 13, 849532	6.2	
524	Mechanism of phosphate sensing and signaling revealed by rice SPX1-PHR2 complex structure. <i>Nature Communications</i> , 2021 , 12, 7040	17.4	5
523	A donor-DNA-free CRISPR/Cas-based approach to gene knock-up in rice. <i>Nature Plants</i> , 2021 , 7, 1445-1452	15.5	9
522	Non-CG DNA methylation-deficiency mutations enhance mutagenesis rates during salt adaptation in cultured Arabidopsis cells. <i>Stress Biology</i> , 2021 , 1, 1		0
521	Abiotic stress responses in plants. <i>Nature Reviews Genetics</i> , 2021 ,	30.1	85
520	Comparative physiological and transcriptomic analysis reveals salinity tolerance mechanisms in Sorghum bicolor (L.) Moench. <i>Planta</i> , 2021 , 254, 98	4.7	1
519	Mediator tail module subunits MED16 and MED25 differentially regulate abscisic acid signaling in Arabidopsis. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 802-815	8.3	8
518	Precision genome editing heralds rapid de novo domestication for new crops. <i>Cell</i> , 2021 , 184, 1133-1134	56.2	6
517	General Control Non-derepressible 1 (AtGCN1) Is Important for Flowering Time, Plant Growth, Seed Development, and the Transcription/Translation of Specific Genes in. <i>Frontiers in Plant Science</i> , 2021 , 12, 630311	6.2	2
516	Genome-wide distribution and functions of the AAE complex in epigenetic regulation in Arabidopsis. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 707-722	8.3	3
515	Initiation and amplification of SnRK2 activation in abscisic acid signaling. <i>Nature Communications</i> , 2021 , 12, 2456	17.4	15
514	Efficient generation of homozygous substitutions in rice in one generation utilizing an rABE8e base editor. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 1595-1599	8.3	9
513	Novel Wx alleles generated by base editing for improvement of rice grain quality. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 1632-1638	8.3	5
512	A domesticated Harbinger transposase forms a complex with HDA6 and promotes histone H3 deacetylation at genes but not TEs in Arabidopsis. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 1462-1474	8.2	3

511	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	17.4	4
510	AtSEC22 Regulates Cell Morphogenesis via Affecting Cytoskeleton Organization and Stabilities. <i>Frontiers in Plant Science</i> , 2021 , 12, 635732	6.2	3
509	Creation of aromatic maize by CRISPR/Cas. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 1664-1670	8.3	7
508	Natural variations in SLSOS1 contribute to the loss of salt tolerance during tomato domestication. <i>Plant Biotechnology Journal</i> , 2021 , 19, 20-22	11.6	14
507	The LRXs-RALFs-FER module controls plant growth and salt stress responses by modulating multiple plant hormones. <i>National Science Review</i> , 2021 , 8, nwaa149	10.8	11
506	Precise genome modification in tomato using an improved prime editing system. <i>Plant Biotechnology Journal</i> , 2021 , 19, 415-417	11.6	31
505	Roles of DEMETER in regulating DNA methylation in vegetative tissues and pathogen resistance. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 691-706	8.3	7
504	CRISPR/Cas9-Based Genome Editing Toolbox for Arabidopsis thaliana. <i>Methods in Molecular Biology</i> , 2021 , 2200, 121-146	1.4	3
503	A novel protein complex that regulates active DNA demethylation in Arabidopsis. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 772-786	8.3	4
502	Genome editing for plant research and crop improvement. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 3-33	8.3	24
501	Gene Targeting Facilitated by Engineered Sequence-Specific Nucleases: Potential Applications for Crop Improvement. <i>Plant and Cell Physiology</i> , 2021 , 62, 752-765	4.9	0
500	Dicer-like proteins influence Arabidopsis root microbiota independent of RNA-directed DNA methylation. <i>Microbiome</i> , 2021 , 9, 57	16.6	1
499	The Arabidopsis spliceosomal protein SmEb modulates ABA responses by maintaining proper alternative splicing of HAB1. <i>Stress Biology</i> , 2021 , 1, 1		1
498	Intragenic heterochromatin-mediated alternative polyadenylation modulates miRNA and pollen development in rice. <i>New Phytologist</i> , 2021 , 232, 835-852	9.8	0
497	MSI4/FVE is required for accumulation of 24-nt siRNAs and DNA methylation at a subset of target regions of RNA-directed DNA methylation. <i>Plant Journal</i> , 2021 , 108, 347-357	6.9	1
496	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	8.3	0
495	Pathway conversion enables a double-lock mechanism to maintain DNA methylation and genome stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
494	SWO1 modulates cell wall integrity under salt stress by interacting with importin β in Arabidopsis. <i>Stress Biology</i> , 2021 , 1, 1		1

493	Expanding the target range of base editing in plants without loss of efficiency by blocking RNA-silencing. <i>Plant Biotechnology Journal</i> , 2021 , 19, 2389-2391	11.6	2
492	Improvement of base editors and prime editors advances precision genome engineering in plants.. <i>Plant Physiology</i> , 2021 ,	6.6	4
491	Phosphorylation of SWEET sucrose transporters regulates plant root:shoot ratio under drought.. <i>Nature Plants</i> , 2021 ,	11.5	10
490	Precision genome engineering in rice using prime editing system. <i>Plant Biotechnology Journal</i> , 2020 , 18, 2167-2169	11.6	72
489	The CCR4-NOT complex component NOT1 regulates RNA-directed DNA methylation and transcriptional silencing by facilitating Pol IV-dependent siRNA production. <i>Plant Journal</i> , 2020 , 103, 1503-1515	6.9	4
488	Mechanisms of Plant Responses and Adaptation to Soil Salinity. <i>Innovation(China)</i> , 2020 , 1, 100017	17.8	156
487	Reciprocal regulation between nicotinamide adenine dinucleotide metabolism and abscisic acid and stress response pathways in Arabidopsis. <i>PLoS Genetics</i> , 2020 , 16, e1008892	6	10
486	Epigenetic memory marks determine epiallele stability at loci targeted by de novo DNA methylation. <i>Nature Plants</i> , 2020 , 6, 661-674	11.5	28
485	RNA-directed DNA methylation has an important developmental function in Arabidopsis that is masked by the chromatin remodeler PICKLE. <i>Journal of Integrative Plant Biology</i> , 2020 , 62, 1647-1652	8.3	2
484	Loss of salt tolerance during tomato domestication conferred by variation in a Na /K transporter. <i>EMBO Journal</i> , 2020 , 39, e103256	13	37
483	Plant abiotic stress response and nutrient use efficiency. <i>Science China Life Sciences</i> , 2020 , 63, 635-674	8.5	246
482	CDK8 is associated with RAP2.6 and SnRK2.6 and positively modulates abscisic acid signaling and drought response in Arabidopsis. <i>New Phytologist</i> , 2020 , 228, 1573-1590	9.8	17
481	Targeted, efficient sequence insertion and replacement in rice. <i>Nature Biotechnology</i> , 2020 , 38, 1402-1407	14.5	58
480	The transcription factor ICE1 functions in cold stress response by binding to the promoters of CBF and COR genes. <i>Journal of Integrative Plant Biology</i> , 2020 , 62, 258-263	8.3	40
479	Mapping proteome-wide targets of protein kinases in plant stress responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 3270-3280	11.5	49
478	A RAF-SnRK2 kinase cascade mediates early osmotic stress signaling in higher plants. <i>Nature Communications</i> , 2020 , 11, 613	17.4	61
477	DNA methylation markers in the diagnosis and prognosis of common leukemias. <i>Signal Transduction and Targeted Therapy</i> , 2020 , 5, 3	21	11
476	Impaired lipid metabolism by age-dependent DNA methylation alterations accelerates aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 4328-4336	11.5	17

475	TPST is involved in fructose regulation of primary root growth in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2020 , 103, 511-525	4.6	3
474	Large-scale identification of expression quantitative trait loci in <i>Arabidopsis</i> reveals novel candidate regulators of immune responses and other processes. <i>Journal of Integrative Plant Biology</i> , 2020 , 62, 1469-1484	8.3	3
473	Rhizobacterium-derived diacetyl modulates plant immunity in a phosphate-dependent manner. <i>EMBO Journal</i> , 2020 , 39, e102602	13	32
472	A virus-encoded protein suppresses methylation of the viral genome through its interaction with AGO4 in the Cajal body. <i>ELife</i> , 2020 , 9,	8.9	13
471	Simplified adenine base editors improve adenine base editing efficiency in rice. <i>Plant Biotechnology Journal</i> , 2020 , 18, 770-778	11.6	44
470	Gene targeting in <i>Arabidopsis</i> via an all-in-one strategy that uses a translational enhancer to aid Cas9 expression. <i>Plant Biotechnology Journal</i> , 2020 , 18, 892-894	11.6	12
469	Absciscic acid dynamics, signaling, and functions in plants. <i>Journal of Integrative Plant Biology</i> , 2020 , 62, 25-54	8.3	271
468	STCH4/REIL2 Confers Cold Stress Tolerance in <i>Arabidopsis</i> by Promoting rRNA Processing and CBF Protein Translation. <i>Cell Reports</i> , 2020 , 30, 229-242.e5	10.6	21
467	Disruption of and improves rice yield under nitrogen-deficient conditions. <i>National Science Review</i> , 2020 , 7, 102-112	10.8	31
466	Two Chloroplast Proteins Negatively Regulate Plant Drought Resistance Through Separate Pathways. <i>Plant Physiology</i> , 2020 , 182, 1007-1021	6.6	16
465	Epigenetic regulation in plant abiotic stress responses. <i>Journal of Integrative Plant Biology</i> , 2020 , 62, 563-580	8.3	112
464	The plasma-membrane polyamine transporter PUT3 is regulated by the Na ⁺ /H antiporter SOS1 and protein kinase SOS2. <i>New Phytologist</i> , 2020 , 226, 785-797	9.8	16
463	SIZ1-Mediated SUMOylation of ROS1 Enhances Its Stability and Positively Regulates Active DNA Demethylation in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2020 , 13, 1816-1824	14.4	7
462	BONZAI Proteins Control Global Osmotic Stress Responses in Plants. <i>Current Biology</i> , 2020 , 30, 4815-4825.e4	12.5	14
461	DNA demethylases are required for myo-inositol-mediated mutualism between plants and beneficial rhizobacteria. <i>Nature Plants</i> , 2020 , 6, 983-995	11.5	18
460	Thriving under Stress: How Plants Balance Growth and the Stress Response. <i>Developmental Cell</i> , 2020 , 55, 529-543	10.2	38
459	Coupling of H3K27me3 recognition with transcriptional repression through the BAH-PHD-CPL2 complex in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2020 , 11, 6212	17.4	10
458	Rice Protein Tagging Project: A Call for International Collaborations on Genome-wide In-Locus Tagging of Rice Proteins. <i>Molecular Plant</i> , 2020 , 13, 1663-1665	14.4	4

457	Chemical Manipulation of Absciscic Acid Signaling: A New Approach to Abiotic and Biotic Stress Management in Agriculture. <i>Advanced Science</i> , 2020 , 7, 2001265	13.6	23
456	Mutations in MIR396e and MIR396f increase grain size and modulate shoot architecture in rice. <i>Plant Biotechnology Journal</i> , 2020 , 18, 491-501	11.6	36
455	Gene editing in plants: progress and challenges. <i>National Science Review</i> , 2019 , 6, 421-437	10.8	102
454	EXPORTIN 1A prevents transgene silencing in Arabidopsis by modulating nucleo-cytoplasmic partitioning of HDA6. <i>Journal of Integrative Plant Biology</i> , 2019 , 61, 1243-1254	8.3	8
453	The genome of broomcorn millet. <i>Nature Communications</i> , 2019 , 10, 436	17.4	61
452	Cystic pancreatic neuroendocrine tumors: A distinctive subgroup with indolent biological behavior? A systematic review and meta-analysis. <i>Pancreatology</i> , 2019 , 19, 738-750	3.8	8
451	Bipartite anchoring of SCREAM enforces stomatal initiation by coupling MAP kinases to SPEECHLESS. <i>Nature Plants</i> , 2019 , 5, 742-754	11.5	33
450	plays a role in DNA demethylation and disease response in somatic tissues of Arabidopsis. <i>Epigenetics</i> , 2019 , 14, 1074-1087	5.7	12
449	Peroxisomal β oxidation regulates histone acetylation and DNA methylation in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10576-10585	11.5	19
448	Arabinose biosynthesis is critical for salt stress tolerance in Arabidopsis. <i>New Phytologist</i> , 2019 , 224, 274-290	9.8	29
447	Genome Engineering in Rice Using Cas9 Variants that Recognize NG PAM Sequences. <i>Molecular Plant</i> , 2019 , 12, 1003-1014	14.4	84
446	Optimizing base editors for improved efficiency and expanded editing scope in rice. <i>Plant Biotechnology Journal</i> , 2019 , 17, 1697-1699	11.6	36
445	Expanding the base editing scope in rice by using Cas9 variants. <i>Plant Biotechnology Journal</i> , 2019 , 17, 499-504	11.6	121
444	Nucleocytoplasmic Trafficking of the Arabidopsis WD40 Repeat Protein XIW1 Regulates ABI5 Stability and Absciscic Acid Responses. <i>Molecular Plant</i> , 2019 , 12, 1598-1611	14.4	26
443	Histone acetylation recruits the SWR1 complex to regulate active DNA demethylation in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16641-16650	11.5	39
442	The grain yield modulator miR156 regulates seed dormancy through the gibberellin pathway in rice. <i>Nature Communications</i> , 2019 , 10, 3822	17.4	49
441	Perspectives on the Application of Genome-Editing Technologies in Crop Breeding. <i>Molecular Plant</i> , 2019 , 12, 1047-1059	14.4	70
440	A model for the aberrant DNA methylomes in aging cells and cancer cells. <i>Biochemical Society Transactions</i> , 2019 , 47, 997-1003	5.1	4

439	A Role for PICKLE in the Regulation of Cold and Salt Stress Tolerance in Arabidopsis. <i>Frontiers in Plant Science</i> , 2019 , 10, 900	6.2	28
438	A group of SUVH methyl-DNA binding proteins regulate expression of the DNA demethylase ROS1 in Arabidopsis. <i>Journal of Integrative Plant Biology</i> , 2019 , 61, 110-119	8.3	27
437	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	8.3	24
436	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	11.5	86
435	Precise AIT to GTC Base Editing in the Rice Genome. <i>Molecular Plant</i> , 2018 , 11, 627-630	14.4	155
434	Reactive oxygen species signaling and stomatal movement in plant responses to drought stress and pathogen attack. <i>Journal of Integrative Plant Biology</i> , 2018 , 60, 805-826	8.3	190
433	EAR1 Negatively Regulates ABA Signaling by Enhancing 2C Protein Phosphatase Activity. <i>Plant Cell</i> , 2018 , 30, 815-834	11.6	63
432	A naturally occurring epiallele associates with leaf senescence and local climate adaptation in Arabidopsis accessions. <i>Nature Communications</i> , 2018 , 9, 460	17.4	45
431	Interaction network of core ABA signaling components in maize. <i>Plant Molecular Biology</i> , 2018 , 96, 245-268		32
430	A virus-targeted plant receptor-like kinase promotes cell-to-cell spread of RNAi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1388-1393	11.5	135
429	Knockdown of Rice MicroRNA166 Confers Drought Resistance by Causing Leaf Rolling and Altering Stem Xylem Development. <i>Plant Physiology</i> , 2018 , 176, 2082-2094	6.6	117
428	Reciprocal Regulation of the TOR Kinase and ABA Receptor Balances Plant Growth and Stress Response. <i>Molecular Cell</i> , 2018 , 69, 100-112.e6	17.6	224
427	Spliceosomal protein U1A is involved in alternative splicing and salt stress tolerance in Arabidopsis thaliana. <i>Nucleic Acids Research</i> , 2018 , 46, 1777-1792	20.1	35
426	EL1-like Casein Kinases Suppress ABA Signaling and Responses by Phosphorylating and Destabilizing the ABA Receptors PYR/PYLs in Arabidopsis. <i>Molecular Plant</i> , 2018 , 11, 706-719	14.4	46
425	Upstream kinases of plant SnRKs are involved in salt stress tolerance. <i>Plant Journal</i> , 2018 , 93, 107-118	6.9	37
424	MYC-type transcription factors, MYC67 and MYC70, interact with ICE1 and negatively regulate cold tolerance in Arabidopsis. <i>Scientific Reports</i> , 2018 , 8, 11622	4.9	15
423	Universal Plant Phosphoproteomics Workflow and Its Application to Tomato Signaling in Response to Cold Stress. <i>Molecular and Cellular Proteomics</i> , 2018 , 17, 2068-2080	7.6	30
422	High-Throughput Phosphorylation Screening and Validation through Ti(IV)-Nanopolymer Functionalized Reverse Phase Phosphoprotein Array. <i>Analytical Chemistry</i> , 2018 , 90, 10263-10270	7.8	3

421	The Flowering Repressor SVP Confers Drought Resistance in Arabidopsis by Regulating Absciscic Acid Catabolism. <i>Molecular Plant</i> , 2018 , 11, 1184-1197	14.4	46
420	The Molecular Networks of Abiotic Stress Signaling 2018 , 388-416		6
419	Arabidopsis Duodecuple Mutant of PYL ABA Receptors Reveals PYL Repression of ABA-Independent SnRK2 Activity. <i>Cell Reports</i> , 2018 , 23, 3340-3351.e5	10.6	81
418	UTR-Dependent Control of Gene Expression in Plants. <i>Trends in Plant Science</i> , 2018 , 23, 248-259	13.1	73
417	Generation of new glutinous rice by CRISPR/Cas9-targeted mutagenesis of the Waxy gene in elite rice varieties. <i>Journal of Integrative Plant Biology</i> , 2018 , 60, 369-375	8.3	130
416	Experimental reconstruction of double-stranded break repair-mediated plastid DNA insertion into the tobacco nucleus. <i>Plant Journal</i> , 2018 , 93, 227-234	6.9	2
415	Developing naturally stress-resistant crops for a sustainable agriculture. <i>Nature Plants</i> , 2018 , 4, 989-996	11.5	99
414	A Highly Efficient Cell Division-Specific CRISPR/Cas9 System Generates Homozygous Mutants for Multiple Genes in. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	26
413	Leucine-rich repeat extensin proteins regulate plant salt tolerance in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 13123-13128	11.5	113
412	Downregulation of RdDM during strawberry fruit ripening. <i>Genome Biology</i> , 2018 , 19, 212	18.3	62
411	DNA demethylase ROS1 negatively regulates the imprinting of and seed dormancy in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E9962-E9970	11.5	23
410	Understanding the Molecular Basis of Salt Sequestration in Epidermal Bladder Cells of <i>Chenopodium quinoa</i> . <i>Current Biology</i> , 2018 , 28, 3075-3085.e7	6.3	57
409	Manipulating plant RNA-silencing pathways to improve the gene editing efficiency of CRISPR/Cas9 systems. <i>Genome Biology</i> , 2018 , 19, 149	18.3	31
408	Retrospective and perspective of plant epigenetics in China. <i>Journal of Genetics and Genomics</i> , 2018 , 45, 621-638	4	22
407	Four putative SWI2/SNF2 chromatin remodelers have dual roles in regulating DNA methylation in Arabidopsis. <i>Cell Discovery</i> , 2018 , 4, 55	22.3	11
406	Arabidopsis AGDP1 links H3K9me2 to DNA methylation in heterochromatin. <i>Nature Communications</i> , 2018 , 9, 4547	17.4	38
405	Multiplex gene editing in rice with simplified CRISPR-Cpf1 and CRISPR-Cas9 systems. <i>Journal of Integrative Plant Biology</i> , 2018 , 60, 626-631	8.3	68
404	CRISPR/Cas9-mediated gene targeting in Arabidopsis using sequential transformation. <i>Nature Communications</i> , 2018 , 9, 1967	17.4	119

403	Dynamics and function of DNA methylation in plants. <i>Nature Reviews Molecular Cell Biology</i> , 2018 , 19, 489-506	48.7	526
402	Mutations in a subfamily of abscisic acid receptor genes promote rice growth and productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6058-6063	11.5	163
401	Epigenetic switch from repressive to permissive chromatin in response to cold stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5400-E5409	11.5	88
400	Transposable elements (TEs) contribute to stress-related long intergenic noncoding RNAs in plants. <i>Plant Journal</i> , 2017 , 90, 133-146	6.9	81
399	Phosphoproteins in extracellular vesicles as candidate markers for breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3175-3180	11.5	201
398	A Novel Chemical Inhibitor of ABA Signaling Targets All ABA Receptors. <i>Plant Physiology</i> , 2017 , 173, 2356-2369	13.4	34
397	New discoveries generate new questions about RNA-directed DNA methylation in Arabidopsis. <i>National Science Review</i> , 2017 , 4, 10-15	10.8	3
396	SALT OVERLY SENSITIVE 2 (SOS2) and Interacting Partners SOS3 and ABSCISIC ACID INSENSITIVE 2 (ABI2) Promote Red-Light-Dependent Germination and Seedling Deetiolation in Arabidopsis. <i>International Journal of Plant Sciences</i> , 2017 , 178, 485-493	2.6	5
395	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	11.5	188
394	Short tandem target mimic rice lines uncover functions of miRNAs in regulating important agronomic traits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5277-5282	11.5	81
393	Genome-wide Targeted Mutagenesis in Rice Using the CRISPR/Cas9 System. <i>Molecular Plant</i> , 2017 , 10, 1242-1245	14.4	132
392	The developmental regulator PKL is required to maintain correct DNA methylation patterns at RNA-directed DNA methylation loci. <i>Genome Biology</i> , 2017 , 18, 103	18.3	23
391	Computational Analysis of Genome-Wide ARGONAUTE-Dependent DNA Methylation in Plants. <i>Methods in Molecular Biology</i> , 2017 , 1640, 219-225	1.4	0
390	Dissecting the Subnuclear Localization Patterns of Argonaute Proteins and Other Components of the RNA-Directed DNA Methylation Pathway in Plants. <i>Methods in Molecular Biology</i> , 2017 , 1640, 129-135	1.4	0
389	Efficient Generation of diRNAs Requires Components in the Posttranscriptional Gene Silencing Pathway. <i>Scientific Reports</i> , 2017 , 7, 301	4.9	26
388	Estimating the Efficiency of Phosphopeptide Identification by Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1127-1135	3.5	4
387	Multiplex Gene Editing in Rice Using the CRISPR-Cpf1 System. <i>Molecular Plant</i> , 2017 , 10, 1011-1013	14.4	202
386	Gene Targeting by Homology-Directed Repair in Rice Using a Geminivirus-Based CRISPR/Cas9 System. <i>Molecular Plant</i> , 2017 , 10, 1007-1010	14.4	134

385	Precise Editing of a Target Base in the Rice Genome Using a Modified CRISPR/Cas9 System. <i>Molecular Plant</i> , 2017 , 10, 523-525	14.4	271
384	A pair of transposon-derived proteins function in a histone acetyltransferase complex for active DNA demethylation. <i>Cell Research</i> , 2017 , 27, 226-240	24.7	59
383	Combining chemical and genetic approaches to increase drought resistance in plants. <i>Nature Communications</i> , 2017 , 8, 1183	17.4	64
382	Structure determination and activity manipulation of the turfgrass ABA receptor FePYR1. <i>Scientific Reports</i> , 2017 , 7, 14022	4.9	11
381	Circulating tumour DNA methylation markers for diagnosis and prognosis of hepatocellular carcinoma. <i>Nature Materials</i> , 2017 , 16, 1155-1161	27	387
380	MAP Kinase Cascades Regulate the Cold Response by Modulating ICE1 Protein Stability. <i>Developmental Cell</i> , 2017 , 43, 618-629.e5	10.2	195
379	The SnRK2 kinases modulate miRNA accumulation in Arabidopsis. <i>PLoS Genetics</i> , 2017 , 13, e1006753	6	56
378	An Arabidopsis Nucleoporin NUP85 modulates plant responses to ABA and salt stress. <i>PLoS Genetics</i> , 2017 , 13, e1007124	6	43
377	A protein complex regulates RNA processing of intronic heterochromatin-containing genes in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7377-E7384	11.5	30
376	Genome Editing Principles and Applications for Functional Genomics Research and Crop Improvement. <i>Critical Reviews in Plant Sciences</i> , 2017 , 36, 291-309	5.6	73
375	A high-quality genome assembly of quinoa provides insights into the molecular basis of salt bladder-based salinity tolerance and the exceptional nutritional value. <i>Cell Research</i> , 2017 , 27, 1327-1340	44.7	104
374	DNA methylation markers for diagnosis and prognosis of common cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7414-7419	11.5	231
373	Control of Plant Water Use by ABA Induction of Senescence and Dormancy: An Overlooked Lesson from Evolution. <i>Plant and Cell Physiology</i> , 2017 , 58, 1319-1327	4.9	35
372	The inhibition of protein translation mediated by AtGCN1 is essential for cold tolerance in Arabidopsis thaliana. <i>Plant, Cell and Environment</i> , 2017 , 40, 56-68	8.4	59
371	SAC3B, a central component of the mRNA export complex TREX-2, is required for prevention of epigenetic gene silencing in Arabidopsis. <i>Nucleic Acids Research</i> , 2017 , 45, 181-197	20.1	14
370	Heritability of targeted gene modifications induced by plant-optimized CRISPR systems. <i>Cellular and Molecular Life Sciences</i> , 2017 , 74, 1075-1093	10.3	34
369	Roles of Nuclear Pores and Nucleo-cytoplasmic Trafficking in Plant Stress Responses. <i>Frontiers in Plant Science</i> , 2017 , 8, 574	6.2	20
368	Nitric Oxide and Hydrogen Peroxide Mediate Wounding-Induced Freezing Tolerance through Modifications in Photosystem and Antioxidant System in Wheat. <i>Frontiers in Plant Science</i> , 2017 , 8, 1284	6.2	22

367	Accession-Dependent Gene Deletion by CRISPR/Cas System in Arabidopsis. <i>Frontiers in Plant Science</i> , 2017 , 8, 1910	6.2	12
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2	Latent defense response to non-pathogenic microbial factors impairs plant-rhizobacteria mutualism	1
1	A virus-encoded protein suppresses methylation of the viral genome in the Cajal body through its interaction with AGO4	5