Jian-Kang Zhu

List of Publications by Year
in descending order

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530 papers	120,434 citations	81 / 170 h-index	146 / 327 g-index
556 all docs	556 docs citations	556 times ranked	48713 citing authors

#	Article	IF	Citations
1	SALT ANDDROUGHTSTRESSSIGNALTRANSDUCTION INPLANTS. Annual Review of Plant Biology, 2002, 53, 247-273.	8.6	4,944
2	PLANTCELLULAR ANDMOLECULARRESPONSES TOHIGHSALINITY. Annual Review of Plant Biology, 2000, 51, 463-499.	14.2	3,766
3	Abiotic Stress Signaling and Responses in Plants. Cell, 2016, 167, 313-324.	13.5	3,491
4	Plant salt tolerance. Trends in Plant Science, 2001, 6, 66-71.	4.3	2,990
5	Abscisic Acid Inhibits Type 2C Protein Phosphatases via the PYR/PYL Family of START Proteins. Science, 2009, 324, 1068-1071.	6.0	2,385
6	Cell Signaling during Cold, Drought, and Salt Stress. Plant Cell, 2002, 14, S165-S183.	3.1	1,874
7	Novel and Stress-Regulated MicroRNAs and Other Small RNAs from Arabidopsis[W]. Plant Cell, 2004, 16, 2001-2019.	3.1	1,787
8	Regulation of ion homeostasis under salt stress. Current Opinion in Plant Biology, 2003, 6, 441-445.	3.5	1,711
9	Cold stress regulation of gene expression in plants. Trends in Plant Science, 2007, 12, 444-451.	4.3	1,593
10	The Arabidopsis thaliana salt tolerance gene SOS1 encodes a putative Na+/H+ antiporter. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 6896-6901.	3.3	1,473
11	ICE1: a regulator of cold-induced transcriptome and freezing tolerance in Arabidopsis. Genes and Development, 2003, 17, 1043-1054.	2.7	1,363
12	Methods and concepts in quantifying resistance to drought, salt and freezing, abiotic stresses that affect plant water status. Plant Journal, 2006, 45, 523-539.	2.8	1,324
13	Criteria for Annotation of Plant MicroRNAs. Plant Cell, 2008, 20, 3186-3190.	3.1	1,158
14	Dynamics and function of DNA methylation in plants. Nature Reviews Molecular Cell Biology, 2018, 19, 489-506.	16.1	1,145
15	The Putative Plasma Membrane Na+/H+ Antiporter SOS1 Controls Long-Distance Na+ Transport in Plants. Plant Cell, 2002, 14, 465-477.	3.1	1,127
16	Posttranscriptional Induction of Two Cu/Zn Superoxide Dismutase Genes in Arabidopsis Is Mediated by Downregulation of miR398 and Important for Oxidative Stress Tolerance. Plant Cell, 2006, 18, 2051-2065.	3.1	1,118
17	In vitro reconstitution of an abscisic acid signalling pathway. Nature, 2009, 462, 660-664.	13.7	1,113
18	Regulation of SOS1, a plasma membrane Na+/H+ exchanger in Arabidopsis thaliana, by SOS2 and SOS3. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8436-8441.	3.3	1,046

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19	Understanding and Improving Salt Tolerance in Plants. Crop Science, 2005, 45, 437-448.	0.8	1,025
20	Endogenous siRNAs Derived from a Pair of Natural cis-Antisense Transcripts Regulate Salt Tolerance in Arabidopsis. Cell, 2005, 123, 1279-1291.	13.5	999
21	Epigenetic regulation of stress responses in plants. Current Opinion in Plant Biology, 2009, 12, 133-139.	3.5	984
22	Efficient genome editing in plants using a CRISPR/Cas system. Cell Research, 2013, 23, 1229-1232.	5.7	944
23	Molecular genetic perspectives on cross-talk and specificity in abiotic stress signalling in plants. Journal of Experimental Botany, 2003, 55, 225-236.	2.4	933
24	The Arabidopsis CDPK-SnRK Superfamily of Protein Kinases. Plant Physiology, 2003, 132, 666-680.	2.3	898
25	Role of miRNAs and siRNAs in biotic and abiotic stress responses of plants. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 137-148.	0.9	889
26	Rapid phosphatidic acid accumulation in response to low temperature stress in Arabidopsis is generated through diacylglycerol kinase. Frontiers in Plant Science, 2013, 4, 1.	1.7	879
27	Small RNAs as big players in plant abiotic stress responses and nutrient deprivation. Trends in Plant Science, 2007, 12, 301-309.	4.3	872
28	Overexpression of a plasma membrane Na+/H+ antiporter gene improves salt tolerance in Arabidopsis thaliana. Nature Biotechnology, 2003, 21, 81-85.	9.4	852
29	The <i>Arabidopsis</i> NFYA5 Transcription Factor Is Regulated Transcriptionally and Posttranscriptionally to Promote Drought Resistance. Plant Cell, 2008, 20, 2238-2251.	3.1	812
30	Arabidopsis mutant deficient in 3 abscisic acid-activated protein kinases reveals critical roles in growth, reproduction, and stress. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8380-8385.	3.3	787
31	A miRNA Involved in Phosphate-Starvation Response in Arabidopsis. Current Biology, 2005, 15, 2038-2043.	1.8	786
32	A R2R3 Type MYB Transcription Factor Is Involved in the Cold Regulation of CBF Genes and in Acquired Freezing Tolerance. Journal of Biological Chemistry, 2006, 281, 37636-37645.	1.6	776
33	A Calcium Sensor Homolog Required for Plant Salt Tolerance. Science, 1998, 280, 1943-1945.	6.0	773
34	Abscisic acid dynamics, signaling, and functions in plants. Journal of Integrative Plant Biology, 2020, 62, 25-54.	4.1	771
35	The <scp>CRISPR</scp>/<scp>C</scp>as9 system produces specific and homozygous targeted gene editing in rice in one generation. Plant Biotechnology Journal, 2014, 12, 797-807.	4.1	726
36	The Arabidopsis Cold-Responsive Transcriptome and Its Regulation by ICE1. Plant Cell, 2005, 17, 3155-3175.	3.1	711

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37	Abiotic stress responses in plants. Nature Reviews Genetics, 2022, 23, 104-119.	7.7	710
38	Regulation of Abscisic Acid Biosynthesis. Plant Physiology, 2003, 133, 29-36.	2.3	708
39	Molecular and genetic aspects of plant responses to osmotic stress. Plant, Cell and Environment, 2002, 25, 131-139.	2.8	702
40	Plant abiotic stress response and nutrient use efficiency. Science China Life Sciences, 2020, 63, 635-674.	2.3	689
41	Active DNA Demethylation Mediated by DNA Glycosylases. Annual Review of Genetics, 2009, 43, 143-166.	3.2	672
42	Multigeneration analysis reveals the inheritance, specificity, and patterns of CRISPR/Cas-induced gene modifications in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4632-4637.	3.3	669
43	ROS1, a Repressor of Transcriptional Gene Silencing in Arabidopsis, Encodes a DNA Glycosylase/Lyase. Cell, 2002, 111, 803-814.	13.5	653
44	Circulating tumour DNA methylation markers for diagnosis and prognosis of hepatocellular carcinoma. Nature Materials, 2017, 16, 1155-1161.	13.3	641
45	Genetic Analysis of Plant Salt Tolerance Using Arabidopsis: Fig. 1.. Plant Physiology, 2000, 124, 941-948.	2.3	638
46	Radically Rethinking Agriculture for the 21st Century. Science, 2010, 327, 833-834.	6.0	627
47	Identification of Two Protein Kinases Required for Abscisic Acid Regulation of Seed Germination, Root Growth, and Gene Expression in Arabidopsis. Plant Cell, 2007, 19, 485-494.	3.1	618
48	A gateâ€“latchâ€“lock mechanism for hormone signalling by abscisic acid receptors. Nature, 2009, 462, 602-608.	13.7	608
49	Genetic Analysis of Salt Tolerance in Arabidopsis: Evidence for a Critical Role of Potassium Nutrition. Plant Cell, 1998, 10, 1181-1191.	3.1	607
50	The negative regulator of plant cold responses, HOS1, is a RING E3 ligase that mediates the ubiquitination and degradation of ICE1. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8281-8286.	3.3	585
51	Comparative Genomics in Salt Tolerance between Arabidopsis and Arabidopsis-Related Halophyte Salt Cress Using Arabidopsis Microarray. Plant Physiology, 2004, 135, 1697-1709.	2.3	542
52	Structural Basis for Sequence-Specific Recognition of DNA by TAL Effectors. Science, 2012, 335, 720-723.	6.0	528
53	Cell signaling under salt, water and cold stresses. Current Opinion in Plant Biology, 2001, 4, 401-406.	3.5	515
54	Conservation of the Salt Overly Sensitive Pathway in Rice. Plant Physiology, 2007, 143, 1001-1012.	2.3	512

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55	ABA receptor PYL9 promotes drought resistance and leaf senescence. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1949-1954.	3.3	508
56	Reconstitution in yeast of the Arabidopsis SOS signaling pathway for Na+ homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9061-9066.	3.3	500
57	Application of the CRISPRâ€“Cas System for Efficient Genome Engineering in Plants. Molecular Plant, 2013, 6, 2008-2011.	3.9	495
58	The Arabidopsis LOS5/ABA3 Locus Encodes a Molybdenum Cofactor Sulfurase and Modulates Cold Stressâ€“ and Osmotic Stressâ€“Responsive Gene Expression. Plant Cell, 2001, 13, 2063-2083.	3.1	492
59	Role of an Arabidopsis AP2/EREBP-Type Transcriptional Repressor in Abscisic Acid and Drought Stress Responses. Plant Cell, 2005, 17, 2384-2396.	3.1	479
60	Cloning and Characterization of MicroRNAs from Rice. Plant Cell, 2005, 17, 1397-1411.	3.1	462
61	<i>SCREAM/ICE1</i>and<i>SCREAM2</i>Specify Three Cell-State Transitional Steps Leading to<i>Arabidopsis</i>Stomatal Differentiation Â. Plant Cell, 2008, 20, 1775-1785.	3.1	461
62	SOS3 Function in Plant Salt Tolerance Requires N-Myristoylation and Calcium Binding. Plant Cell, 2000, 12, 1667-1677.	3.1	458
63	Mutational Evidence for the Critical Role of CBF Transcription Factors in Cold Acclimation in Arabidopsis. Plant Physiology, 2016, 171, 2744-2759.	2.3	453
64	Salt Cress. A Halophyte and Cryophyte Arabidopsis Relative Model System and Its Applicability to Molecular Genetic Analyses of Growth and Development of Extremophiles. Plant Physiology, 2004, 135, 1718-1737.	2.3	447
65	A pathogen-inducible endogenous siRNA in plant immunity. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18002-18007.	3.3	447
66	AtHKT1 is a salt tolerance determinant that controls Na+ entry into plant roots. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 14150-14155.	3.3	441
67	The Arabidopsis LOS5/ABA3 Locus Encodes a Molybdenum Cofactor Sulfurase and Modulates Cold Stress- and Osmotic Stress-Responsive Gene Expression. Plant Cell, 2001, 13, 2063-2083.	3.1	440
68	Molecular Mimicry Regulates ABA Signaling by SnRK2 Kinases and PP2C Phosphatases. Science, 2012, 335, 85-88.	6.0	439
69	Identification of novel and candidate miRNAs in rice by high throughput sequencing. BMC Plant Biology, 2008, 8, 25.	1.6	436
70	From Laboratory to Field. Using Information from Arabidopsis to Engineer Salt, Cold, and Drought Tolerance in Crops. Plant Physiology, 2004, 135, 615-621.	2.3	432
71	ABO3, a WRKY transcription factor, mediates plant responses to abscisic acid and drought tolerance in Arabidopsis. Plant Journal, 2010, 63, 417-429.	2.8	421
72	Regulation and function of DNA methylation in plants and animals. Cell Research, 2011, 21, 442-465.	5.7	421

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73	Gain- and loss-of-function mutations inZat10enhance the tolerance of plants to abiotic stress. FEBS Letters, 2006, 580, 6537-6542.	1.3	412
74	Interplay between cold-responsive gene regulation, metabolism and RNA processing during plant cold acclimation. Current Opinion in Plant Biology, 2007, 10, 290-295.	3.5	404
75	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
76	The Arabidopsis SOS5 Locus Encodes a Putative Cell Surface Adhesion Protein and Is Required for Normal Cell Expansion. Plant Cell, 2003, 15, 19-32.	3.1	396
77	Quantitative phosphoproteomics identifies SnRK2 protein kinase substrates and reveals the effectors of abscisic acid action. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11205-11210.	3.3	394
78	The Arabidopsis HOS1 gene negatively regulates cold signal transduction and encodes a RING finger protein that displays cold-regulated nucleo-cytoplasmic partitioning. Genes and Development, 2001, 15, 912-924.	2.7	392
79	Molecular Characterization of Functional Domains in the Protein Kinase SOS2 That Is Required for Plant Salt Tolerance. Plant Cell, 2001, 13, 1383-1400.	3.1	390
80	Arabidopsis Protein Kinase PKS5 Inhibits the Plasma Membrane H+-ATPase by Preventing Interaction with 14-3-3 Protein. Plant Cell, 2007, 19, 1617-1634.	3.1	388
81	De novo-engineered transcription activator-like effector (TALE) hybrid nuclease with novel DNA binding specificity creates double-strand breaks. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2623-2628.	3.3	388
82	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
83	Mechanisms of Plant Responses and Adaptation to Soil Salinity. Innovation(China), 2020, 1, 100017.	5.2	387
84	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
85	Overexpression of SOS (Salt Overly Sensitive) Genes Increases Salt Tolerance in Transgenic Arabidopsis. Molecular Plant, 2009, 2, 22-31.	3.9	384
86	Regulation of Osmotic Stress-responsive Gene Expression by theLOS6/ABA1 Locus inArabidopsis. Journal of Biological Chemistry, 2002, 277, 8588-8596.	1.6	382
87	A novel domain in the protein kinase SOS2 mediates interaction with the protein phosphatase 2C ABI2. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11771-11776.	3.3	368
88	MAP Kinase Cascades Regulate the Cold Response by Modulating ICE1 Protein Stability. Developmental Cell, 2017, 43, 618-629.e5.	3.1	359
89	Molecular Aspects of Osmotic Stress in Plants. Critical Reviews in Plant Sciences, 1997, 16, 253-277.	2.7	356
90	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

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91	FIERY1 encoding an inositol polyphosphate 1-phosphatase is a negative regulator of abscisic acid and stress signaling in Arabidopsis. Genes and Development, 2001, 15, 1971-1984.	2.7	343
92	The Arabidopsis thaliana SOS2 gene encodes a protein kinase that is required for salt tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3730-4.	3.3	343
93	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
94	Activation of the plasma membrane Na/H antiporter Salt-Overly-Sensitive 1 (SOS1) by phosphorylation of an auto-inhibitory C-terminal domain. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2611-2616.	3.3	341
95	Gene Regulation During Cold Stress Acclimation in Plants. Methods in Molecular Biology, 2010, 639, 39-55.	0.4	339
96	Regulation of Vacuolar Na+/H+ Exchange in Arabidopsis thaliana by the Salt-Overly-Sensitive (SOS) Pathway. Journal of Biological Chemistry, 2004, 279, 207-215.	1.6	337
97	Cloning and characterization of microRNAs from wheat (Triticum aestivum L.). Genome Biology, 2007, 8, R96.	13.9	330
98	Nomenclature for HKT transporters, key determinants of plant salinity tolerance. Trends in Plant Science, 2006, 11, 372-374.	4.3	329
99	Activated Expression of an<i>Arabidopsis</i>HD-START Protein Confers Drought Tolerance with Improved Root System and Reduced Stomatal Density Â. Plant Cell, 2008, 20, 1134-1151.	3.1	329
100	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
101	A DEAD Box RNA Helicase Is Essential for mRNA Export and Important for Development and Stress Responses in Arabidopsis. Plant Cell, 2005, 17, 256-267.	3.1	322
102	The genome of the extremophile crucifer Thellungiella parvula. Nature Genetics, 2011, 43, 913-918.	9.4	318
103	Nitric oxide negatively regulates abscisic acid signaling in guard cells by S-nitrosylation of OST1. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 613-618.	3.3	318
104	The Arabidopsis SOS2 protein kinase physically interacts with and is activated by the calcium-binding protein SOS3. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3735-40.	3.3	318
105	Involvement of miR169 in the nitrogenâ€starvation responses in Arabidopsis. New Phytologist, 2011, 190, 906-915.	3.5	317
106	Proline Accumulation and Salt-Stress-Induced Gene Expression in a Salt-Hypersensitive Mutant of Arabidopsis. Plant Physiology, 1997, 114, 591-596.	2.3	314
107	Modulation of Abscisic Acid Signal Transduction and Biosynthesis by an Sm-like Protein in Arabidopsis. Developmental Cell, 2001, 1, 771-781.	3.1	311
108	LOS2, a genetic locus required for cold-responsive gene transcription encodes a bi-functional enolase. EMBO Journal, 2002, 21, 2692-2702.	3.5	303

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109	AtHKT1 Facilitates Na+ Homeostasis and K+ Nutrition in Planta. Plant Physiology, 2004, 136, 2500-2511.	2.3	297
110	Involvement of <i>Arabidopsis</i> HOS15 in histone deacetylation and cold tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4945-4950.	3.3	293
111	Epigenetic regulation in plant abiotic stress responses. Journal of Integrative Plant Biology, 2020, 62, 563-580.	4.1	292
112	<i>Arabidopsis</i> decuple mutant reveals the importance of SnRK2 kinases in osmotic stress responses in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1717-1722.	3.3	291
113	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
114	Novel and nodulation-regulated microRNAs in soybean roots. BMC Genomics, 2008, 9, 160.	1.2	283
115	Thriving under Stress: How Plants Balance Growth and the Stress Response. Developmental Cell, 2020, 55, 529-543.	3.1	283
116	Gene regulation during cold acclimation in plants. Physiologia Plantarum, 2006, 126, 52-61.	2.6	281
117	Structural basis for the modular recognition of single-stranded RNA by PPR proteins. Nature, 2013, 504, 168-171.	13.7	281
118	A Calcium Sensor and Its Interacting Protein Kinase Are Global Regulators of Abscisic Acid Signaling in Arabidopsis. Developmental Cell, 2002, 3, 233-244.	3.1	278
119	Abscisic Acidâ€mediated Epigenetic Processes in Plant Development and Stress Responses. Journal of Integrative Plant Biology, 2008, 50, 1187-1195.	4.1	278
120	HOS1, a Genetic Locus Involved in Cold-Responsive Gene Expression in Arabidopsis. Plant Cell, 1998, 10, 1151-1161.	3.1	276
121	Role of the Arabidopsis DNA glycosylase/lyase ROS1 in active DNA demethylation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11796-11801.	3.3	276
122	RNA helicase-like protein as an early regulator of transcription factors for plant chilling and freezing tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11507-11512.	3.3	275
123	The ABA Receptor PYL8 Promotes Lateral Root Growth by Enhancing MYB77-Dependent Transcription of Auxin-Responsive Genes. Science Signaling, 2014, 7, ra53.	1.6	274
124	Identification of cold-inducible microRNAs in plants by transcriptome analysis. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2008, 1779, 780-788.	0.9	272
125	Insights into salt tolerance from the genome of <i>Thellungiella salsuginea</i>. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12219-12224.	3.3	272
126	Role of Arabidopsis AGO6 in siRNA accumulation, DNA methylation and transcriptional gene silencing. EMBO Journal, 2007, 26, 1691-1701.	3.5	262

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127	An Arabidopsis mutant that requires increased calcium for potassium nutrition and salt tolerance. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 14960-14964.	3.3	259
128	Multiplex Gene Editing in Rice Using the CRISPR-Cpf1 System. Molecular Plant, 2017, 10, 1011-1013.	3.9	258
129	ABA receptors: the START of a new paradigm in phytohormone signalling. Journal of Experimental Botany, 2010, 61, 3199-3210.	2.4	248
130	Genome-wide Targeted Mutagenesis in Rice Using the CRISPR/Cas9 System. Molecular Plant, 2017, 10, 1242-1245.	3.9	242
131	An Arabidopsis homeodomain transcription factor gene, HOS9, mediates cold tolerance through a CBF-independent pathway. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9873-9878.	3.3	236
132	SOS2 Promotes Salt Tolerance in Part by Interacting with the Vacuolar H⁺-ATPase and Upregulating Its Transport Activity. Molecular and Cellular Biology, 2007, 27, 7781-7790.	1.1	234
133	The DNA Glycosylase/Lyase ROS1 Functions in Pruning DNA Methylation Patterns in Arabidopsis. Current Biology, 2007, 17, 54-59.	1.8	234
134	A Mitochondrial Complex I Defect Impairs Cold-Regulated Nuclear Gene Expression. Plant Cell, 2002, 14, 1235-1251.	3.1	233
135	The plasma membrane Na+/H+ antiporter SOS1 interacts with RCD1 and functions in oxidative stress tolerance in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18816-18821.	3.3	233
136	Antifungal activity of tobacco osmotin has specificity and involves plasma membrane permeabilization. Plant Science, 1996, 118, 11-23.	1.7	232
137	RNA-directed DNA methylation. Current Opinion in Plant Biology, 2011, 14, 142-147.	3.5	232
138	An RNA polymerase II- and AGO4-associated protein acts in RNA-directed DNA methylation. Nature, 2010, 465, 106-109.	13.7	228
139	Control of DNA methylation and heterochromatic silencing by histone H2B deubiquitination. Nature, 2007, 447, 735-738.	13.7	225
140	Subunit Compositions of the RNA-Silencing Enzymes Pol IV and Pol V Reveal Their Origins as Specialized Forms of RNA Polymerase II. Molecular Cell, 2009, 33, 192-203.	4.5	225
141	A Histone Acetyltransferase Regulates Active DNA Demethylation in <i>Arabidopsis</i>. Science, 2012, 336, 1445-1448.	6.0	224
142	Leucine-rich repeat extensin proteins regulate plant salt tolerance in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 13123-13128.	3.3	224
143	The Protein Kinase SOS2 Activates the Arabidopsis H+/Ca2+ Antiporter CAX1 to Integrate Calcium Transport and Salt Tolerance. Journal of Biological Chemistry, 2004, 279, 2922-2926.	1.6	223
144	Disruption of the cellulose synthase gene, AtCesA8/IRX1, enhances drought and osmotic stress tolerance in Arabidopsis. Plant Journal, 2005, 43, 273-283.	2.8	223

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145	An Effector of RNA-Directed DNA Methylation in Arabidopsis Is an ARGONAUTE 4- and RNA-Binding Protein. Cell, 2009, 137, 498-508.	13.5	220
146	Abiotic stress signal transduction in plants: Molecular and genetic perspectives. Physiologia Plantarum, 2001, 112, 152-166.	2.6	219
147	Gene editing in plants: progress and challenges. National Science Review, 2019, 6, 421-437.	4.6	215
148	Reactive oxygen species mediate Na⁺â€induced<i>SOS1</i>mRNA stability in Arabidopsis. Plant Journal, 2008, 53, 554-565.	2.8	214
149	Distinctive Core Histone Post-Translational Modification Patterns in Arabidopsis thaliana. PLoS ONE, 2007, 2, e1210.	1.1	213
150	Regulation of expression of the vacuolar Na+/H+ antiporter gene AtNHX1 by salt stress and abscisic acid. Plant Molecular Biology, 2002, 50, 543-550.	2.0	211
151	Salt Stress Signaling and Mechanisms of Plant Salt Tolerance. , 2006, 27, 141-177.		208
152	OSM1/SYP61: A Syntaxin Protein in Arabidopsis Controls Abscisic Acidâ€“Mediated and Non-Abscisic Acidâ€“Mediated Responses to Abiotic Stress. Plant Cell, 2002, 14, 3009-3028.	3.1	204
153	Before and beyond ABA: upstream sensing and internal signals that determine ABA accumulation and response under abiotic stress. Biochemical Society Transactions, 2005, 33, 375-379.	1.6	204
154	Regulatory link between DNA methylation and active demethylation in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3553-3557.	3.3	204
155	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
156	Interaction of SOS2 with Nucleoside Diphosphate Kinase 2 and Catalases Reveals a Point of Connection between Salt Stress and H₂O₂ Signaling in <i>Arabidopsis thaliana</i>. Molecular and Cellular Biology, 2007, 27, 7771-7780.	1.1	201
157	Development of germâ€lineâ€specific <scp>CRISPR</scp>â€Cas9 systems to improve the production of heritable gene modifications in <i>Arabidopsis</i>. Plant Biotechnology Journal, 2016, 14, 519-532.	4.1	199
158	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
159	Generation of new glutinous rice by CRISPR/Cas9â€targeted mutagenesis of the <i>Waxy</i> gene in elite rice varieties. Journal of Integrative Plant Biology, 2018, 60, 369-375.	4.1	198
160	The SOS3 Family of Calcium Sensors and SOS2 Family of Protein Kinases in Arabidopsis. Plant Physiology, 2004, 134, 919-926.	2.3	197
161	A Protein Complex Required for Polymerase V Transcripts and RNA- Directed DNA Methylation in Arabidopsis. Current Biology, 2010, 20, 951-956.	1.8	195
162	Precise AÂ·T to GÂ·C Base Editing in the Rice Genome. Molecular Plant, 2018, 11, 627-630.	3.9	195

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163	A multiplex CRISPR/Cas9 platform for fast and efficient editing of multiple genes in Arabidopsis. Plant Cell Reports, 2016, 35, 1519-1533.	2.8	193
164	SOS1, a Genetic Locus Essential for Salt Tolerance and Potassium Acquisition. Plant Cell, 1996, 8, 617.	3.1	192
165	STABILIZED1, a Stress-Upregulated Nuclear Protein, Is Required for Pre-mRNA Splicing, mRNA Turnover, and Stress Tolerance in Arabidopsis. Plant Cell, 2006, 18, 1736-1749.	3.1	192
166	The Arabidopsis salt overly sensitive 4 Mutants Uncover a Critical Role for Vitamin B6 in Plant Salt Tolerance. Plant Cell, 2002, 14, 575-588.	3.1	191
167	Gene Targeting by Homology-Directed Repair inÂRice Using a Geminivirus-Based CRISPR/Cas9 System. Molecular Plant, 2017, 10, 1007-1010.	3.9	191
168	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
169	Identification and comparative analysis of drought-associated microRNAs in two cowpea genotypes. BMC Plant Biology, 2011, 11, 127.	1.6	187
170	Developing naturally stress-resistant crops for a sustainable agriculture. Nature Plants, 2018, 4, 989-996.	4.7	186
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