Kazuo Shinozaki

List of Publications by Year
in descending order

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618 papers	132,284 citations	57 177 h-index	114 342 g-index
634 all docs	634 docs citations	634 times ranked	46427 citing authors

#	Article	IF	Citations
1	Genome sequence of the palaeopolyploid soybean. Nature, 2010, 463, 178-183.	13.7	3,854
2	Two Transcription Factors, DREB1 and DREB2, with an EREBP/AP2 DNA Binding Domain Separate Two Cellular Signal Transduction Pathways in Drought- and Low-Temperature-Responsive Gene Expression, Respectively, in Arabidopsis. Plant Cell, 1998, 10, 1391-1406.	3.1	2,660
3	TRANSCRIPTIONAL REGULATORY NETWORKS IN CELLULAR RESPONSES AND TOLERANCE TO DEHYDRATION AND COLD STRESSES. Annual Review of Plant Biology, 2006, 57, 781-803.	8.6	2,537
4	Gene networks involved in drought stress response and tolerance. Journal of Experimental Botany, 2006, 58, 221-227.	2.4	2,114
5	Arabidopsis AtMYC2 (bHLH) and AtMYB2 (MYB) Function as Transcriptional Activators in Abscisic Acid Signaling. Plant Cell, 2003, 15, 63-78.	3.1	1,905
6	Improving plant drought, salt, and freezing tolerance by gene transfer of a single stress-inducible transcription factor. Nature Biotechnology, 1999, 17, 287-291.	9.4	1,838
7	A novel cis-acting element in an Arabidopsis gene is involved in responsiveness to drought, low-temperature, or high-salt stress.. Plant Cell, 1994, 6, 251-264.	3.1	1,824
8	Monitoring the expression profiles of 7000 Arabidopsis genes under drought, cold and high-salinity stresses using a full-length cDNA microarray. Plant Journal, 2002, 31, 279-292.	2.8	1,697
9	Regulatory network of gene expression in the drought and cold stress responses. Current Opinion in Plant Biology, 2003, 6, 410-417.	3.5	1,616
10	Crosstalk between abiotic and biotic stress responses: a current view from the points of convergence in the stress signaling networks. Current Opinion in Plant Biology, 2006, 9, 436-442.	3.5	1,595
11	DNA-Binding Specificity of the ERF/AP2 Domain of Arabidopsis DREBs, Transcription Factors Involved in Dehydration- and Cold-Inducible Gene Expression. Biochemical and Biophysical Research Communications, 2002, 290, 998-1009.	1.0	1,572
12	OsDREB genes in rice, Oryza sativa L., encode transcription activators that function in drought-, high-salt- and cold-responsive gene expression. Plant Journal, 2003, 33, 751-763.	2.8	1,482
13	Molecular responses to dehydration and low temperature: differences and cross-talk between two stress signaling pathways. Current Opinion in Plant Biology, 2000, 3, 217-223.	3.5	1,378
14	Isolation and Functional Analysis of Arabidopsis Stress-Inducible NAC Transcription Factors That Bind to a Drought-Responsive cis-Element in the early responsive to dehydration stress 1 Promoter[W]. Plant Cell, 2004, 16, 2481-2498.	3.1	1,329
15	Arabidopsis basic leucine zipper transcription factors involved in an abscisic acid-dependent signal transduction pathway under drought and high-salinity conditions. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 11632-11637.	3.3	1,204
16	Organization of cis-acting regulatory elements in osmotic- and cold-stress-responsive promoters. Trends in Plant Science, 2005, 10, 88-94.	4.3	1,200
17	Regulation of drought tolerance by gene manipulation of 9-cis-epoxycarotenoid dioxygenase, a key enzyme in abscisic acid biosynthesis in Arabidopsis. Plant Journal, 2001, 27, 325-333.	2.8	1,138
18	The complete sequence of the rice (Oryza sativa) chloroplast genome: Intermolecular recombination between distinct tRNA genes accounts for a major plastid DNA inversion during the evolution of the cereals. Molecular Genetics and Genomics, 1989, 217, 185-194.	2.4	1,133

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19	Response of plants to water stress. Frontiers in Plant Science, 2014, 5, 86.	1.7	1,091
20	AP2/ERF family transcription factors in plant abiotic stress responses. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 86-96.	0.9	1,087
21	Mitogen-activated protein kinase cascades in plants: a new nomenclature. Trends in Plant Science, 2002, 7, 301-308.	4.3	1,080
22	Research on plant abiotic stress responses in the postâ€genome era: past, present and future. Plant Journal, 2010, 61, 1041-1052.	2.8	1,021
23	Effects of abiotic stress on plants: a systems biology perspective. BMC Plant Biology, 2011, 11, 163.	1.6	1,005
24	Important roles of drought- and cold-inducible genes for galactinol synthase in stress tolerance in Arabidopsis thaliana. Plant Journal, 2002, 29, 417-426.	2.8	1,002
25	Functional analysis of a NAC-type transcription factor OsNAC6 involved in abiotic and biotic stress-responsive gene expression in rice. Plant Journal, 2007, 51, 617-630.	2.8	996
26	Monitoring the Expression Pattern of 1300 Arabidopsis Genes under Drought and Cold Stresses by Using a Full-Length cDNA Microarray. Plant Cell, 2001, 13, 61-72.	3.1	986
27	Gene Expression and Signal Transduction in Water-Stress Response. Plant Physiology, 1997, 115, 327-334.	2.3	980
28	Type 2C protein phosphatases directly regulate abscisic acid-activated protein kinases in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17588-17593.	3.3	980
29	Functional Analysis of an Arabidopsis Transcription Factor, DREB2A, Involved in Drought-Responsive Gene Expression. Plant Cell, 2006, 18, 1292-1309.	3.1	968
30	Role of arabidopsis MYC and MYB homologs in drought- and abscisic acid-regulated gene expression.. Plant Cell, 1997, 9, 1859-1868.	3.1	921
31	Enhancement of oxidative and drought tolerance in Arabidopsis by overaccumulation of antioxidant flavonoids. Plant Journal, 2014, 77, 367-379.	2.8	911
32	Monitoring Expression Profiles of Rice Genes under Cold, Drought, and High-Salinity Stresses and Abscisic Acid Application Using cDNA Microarray and RNA Gel-Blot Analyses Â. Plant Physiology, 2003, 133, 1755-1767.	2.3	906
33	A dehydration-induced NAC protein, RD26, is involved in a novel ABA-dependent stress-signaling pathway. Plant Journal, 2004, 39, 863-876.	2.8	877
34	AREB1, AREB2, and ABF3 are master transcription factors that cooperatively regulate ABRE-dependent ABA signaling involved in drought stress tolerance and require ABA for full activation. Plant Journal, 2010, 61, 672-685.	2.8	871
35	ABA-mediated transcriptional regulation in response to osmotic stress in plants. Journal of Plant Research, 2011, 124, 509-525.	1.2	860
36	The MKK2 Pathway Mediates Cold and Salt Stress Signaling in Arabidopsis. Molecular Cell, 2004, 15, 141-152.	4.5	859

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37	Identification of CRE1 as a cytokinin receptor from Arabidopsis. Nature, 2001, 409, 1060-1063.	13.7	854
38	Empirical Analysis of Transcriptional Activity in the Arabidopsis Genome. Science, 2003, 302, 842-846.	6.0	853
39	Functional Analysis of Rice DREB1/CBF-type Transcription Factors Involved in Cold-responsive Gene Expression in Transgenic Rice. Plant and Cell Physiology, 2006, 47, 141-153.	1.5	853
40	AREB1 Is a Transcription Activator of Novel ABRE-Dependent ABA Signaling That Enhances Drought Stress Tolerance in Arabidopsis Â. Plant Cell, 2005, 17, 3470-3488.	3.1	826
41	Molecular Basis of the Core Regulatory Network in ABA Responses: Sensing, Signaling and Transport. Plant and Cell Physiology, 2010, 51, 1821-1839.	1.5	800
42	Transcriptional Regulatory Network of Plant Heat Stress Response. Trends in Plant Science, 2017, 22, 53-65.	4.3	782
43	NAC transcription factors in plant abiotic stress responses. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 97-103.	0.9	779
44	Regulatory metabolic networks in drought stress responses. Current Opinion in Plant Biology, 2007, 10, 296-302.	3.5	761
45	Abscisic acid-dependent multisite phosphorylation regulates the activity of a transcription activator AREB1. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1988-1993.	3.3	760
46	NAC Transcription Factors, NST1 and NST3, Are Key Regulators of the Formation of Secondary Walls in Woody Tissues of Arabidopsis. Plant Cell, 2007, 19, 270-280.	3.1	739
47	Dual function of an Arabidopsis transcription factor DREB2A in water-stress-responsive and heat-stress-responsive gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18822-18827.	3.3	694
48	The transcriptional regulatory network in the drought response and its crosstalk in abiotic stress responses including drought, cold, and heat. Frontiers in Plant Science, 2014, 5, 170.	1.7	684
49	Engineering drought tolerance in plants: discovering and tailoring genes to unlock the future. Current Opinion in Biotechnology, 2006, 17, 113-122.	3.3	683
50	Interaction between two cis-acting elements, ABRE and DRE, in ABA-dependent expression of Arabidopsis rd29A gene in response to dehydration and high-salinity stresses. Plant Journal, 2003, 34, 137-148.	2.8	664
51	Analysis of Cytokinin Mutants and Regulation of Cytokinin Metabolic Genes Reveals Important Regulatory Roles of Cytokinins in Drought, Salt and Abscisic Acid Responses, and Abscisic Acid Biosynthesis Â. Plant Cell, 2011, 23, 2169-2183.	3.1	647
52	Three Arabidopsis SnRK2 Protein Kinases, SRK2D/SnRK2.2, SRK2E/SnRK2.6/OST1 and SRK2I/SnRK2.3, Involved in ABA Signaling are Essential for the Control of Seed Development and Dormancy. Plant and Cell Physiology, 2009, 50, 1345-1363.	1.5	636
53	The NAC Transcription Factors NST1 and NST2 of Arabidopsis Regulate Secondary Wall Thickenings and Are Required for Anther Dehiscence. Plant Cell, 2005, 17, 2993-3006.	3.1	632
54	Functional Annotation of a Full-Length Arabidopsis cDNA Collection. Science, 2002, 296, 141-145.	6.0	631

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55	A Combination of the Arabidopsis DREB1A Gene and Stress-Inducible rd29A Promoter Improved Drought- and Low-Temperature Stress Tolerance in Tobacco by Gene Transfer. Plant and Cell Physiology, 2004, 45, 346-350.	1.5	616
56	In planta functions of the Arabidopsis cytokinin receptor family. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8821-8826.	3.3	610
57	Three SnRK2 Protein Kinases are the Main Positive Regulators of Abscisic Acid Signaling in Response to Water Stress in Arabidopsis. Plant and Cell Physiology, 2009, 50, 2123-2132.	1.5	599
58	Functional analysis of AHK1/ATHK1 and cytokinin receptor histidine kinases in response to abscisic acid, drought, and salt stress in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20623-20628.	3.3	592
59	Various abiotic stresses rapidly activate Arabidopsis MAP kinases ATMPK4 and ATMPK6. Plant Journal, 2000, 24, 655-665.	2.8	561
60	Positive regulatory role of strigolactone in plant responses to drought and salt stress. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 851-856.	3.3	555
61	Identification of cold-inducible downstream genes of theArabidopsisDREB1A/CBF3 transcriptional factor using two microarray systems. Plant Journal, 2004, 38, 982-993.	2.8	546
62	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
63	Arabidopsis Cys2/His2-Type Zinc-Finger Proteins Function as Transcription Repressors under Drought, Cold, and High-Salinity Stress Conditions. Plant Physiology, 2004, 136, 2734-2746.	2.3	526
64	ABA-Activated SnRK2 Protein Kinase is Required for Dehydration Stress Signaling in Arabidopsis. Plant and Cell Physiology, 2002, 43, 1473-1483.	1.5	520
65	Characterization of the ABAâ€regulated global responses to dehydration in Arabidopsis by metabolomics. Plant Journal, 2009, 57, 1065-1078.	2.8	519
66	A Transmembrane Hybrid-Type Histidine Kinase in Arabidopsis Functions as an Osmosensor. Plant Cell, 1999, 11, 1743-1754.	3.1	501
67	ABC transporter AtABCG25 is involved in abscisic acid transport and responses. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2361-2366.	3.3	494
68	Four <scp>A</scp>rabidopsisâ€...<scp>AREB</scp>/<scp>ABF</scp> transcription factors function predominantly in gene expression downstream of <scp>SnRK2</scp> kinases in abscisic acid signalling in response to osmotic stress. Plant, Cell and Environment, 2015, 38, 35-49.	2.8	491
69	A gene encoding a mitogen-activated protein kinase kinase kinase is induced simultaneously with genes for a mitogen-activated protein kinase and an S6 ribosomal protein kinase by touch, cold, and water stress in Arabidopsis thaliana.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 765-769.	3.3	483
70	The Regulatory Domain of SRK2E/OST1/SnRK2.6 Interacts with ABI1 and Integrates Abscisic Acid (ABA) and Osmotic Stress Signals Controlling Stomatal Closure in Arabidopsis. Journal of Biological Chemistry, 2006, 281, 5310-5318.	1.6	481
71	ArabidopsisDREB2A-Interacting Proteins Function as RING E3 Ligases and Negatively Regulate Plant Drought Stressâ€“Responsive Gene Expression. Plant Cell, 2008, 20, 1693-1707.	3.1	477
72	â€˜Omicsâ€™ analyses of regulatory networks in plant abiotic stress responses. Current Opinion in Plant Biology, 2010, 13, 132-138.	3.5	477

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73	Arabidopsis Transcriptome Analysis under Drought, Cold, High-Salinity and ABA Treatment Conditions using a Tiling Array. Plant and Cell Physiology, 2008, 49, 1135-1149.	1.5	475
74	The AtGenExpress hormone and chemical treatment data set: experimental design, data evaluation, model data analysis and data access. Plant Journal, 2008, 55, 526-542.	2.8	467
75	Characterization of the expression of a desiccation-responsive rd29 gene of Arabidopsis thaliana and analysis of its promoter in transgenic plants. Molecular Genetics and Genomics, 1993, 236-236, 331-340.	2.4	466
76	Cytokinins: metabolism and function in plant adaptation to environmental stresses. Trends in Plant Science, 2012, 17, 172-179.	4.3	466
77	Antagonistic Interaction between Systemic Acquired Resistance and the Abscisic Acidâ€“Mediated Abiotic Stress Response in Arabidopsis Â. Plant Cell, 2008, 20, 1678-1692.	3.1	465
78	Correlation between the induction of a gene for Delta1-pyrroline-5-carboxylate synthetase and the accumulation of proline in Arabidopsis thaliana under osmotic stress. Plant Journal, 1995, 7, 751-760.	2.8	453
79	Achievements and Challenges in Understanding Plant Abiotic Stress Responses and Tolerance. Plant and Cell Physiology, 2011, 52, 1569-1582.	1.5	451
80	Regulation and functional analysis of ZmDREB2A in response to drought and heat stresses in Zea mays L. Plant Journal, 2007, 50, 54-69.	2.8	447
81	Perception and transduction of abscisic acid signals: keys to the function of the versatile plant hormone ABA. Trends in Plant Science, 2007, 12, 343-351.	4.3	441
82	Molecular responses to drought and cold stress. Current Opinion in Biotechnology, 1996, 7, 161-167.	3.3	422
83	Molecular responses to drought, salinity and frost: common and different paths for plant protection. Current Opinion in Biotechnology, 2003, 14, 194-199.	3.3	417
84	Importance of Lineage-Specific Expansion of Plant Tandem Duplicates in the Adaptive Response to Environmental Stimuli Â. Plant Physiology, 2008, 148, 993-1003.	2.3	415
85	Antisense suppression of proline degradation improves tolerance to freezing and salinity in Arabidopsis thaliana. FEBS Letters, 1999, 461, 205-210.	1.3	405
86	Two different novelcis-acting elements oferd1, aclpAhomologousArabidopsisgene function in induction by dehydration stress and dark-induced senescence. Plant Journal, 2003, 33, 259-270.	2.8	402
87	The abiotic stress-responsive NAC-type transcription factor OsNAC5 regulates stress-inducible genes and stress tolerance in rice. Molecular Genetics and Genomics, 2010, 284, 173-183.	1.0	398
88	A small peptide modulates stomatal control via abscisic acid in long-distance signalling. Nature, 2018, 556, 235-238.	13.7	396
89	Monitoring the expression pattern of around 7,000 Arabidopsis genes under ABA treatments using a full-length cDNA microarray. Functional and Integrative Genomics, 2002, 2, 282-291.	1.4	394
90	Arabidopsis HsfA1 transcription factors function as the main positive regulators in heat shock-responsive gene expression. Molecular Genetics and Genomics, 2011, 286, 321-332.	1.0	377

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91	Molecular Cloning and Characterization of 9 cDNAs for Genes That Are Responsive to Desiccation in Arabidopsis thaliana: SequenceAnalysis of One cDNA Clone That Encodes a Putative Transmembrane Channel Protein. Plant and Cell Physiology, 1992, 33, 217-224.	1.5	375
92	Zinc finger protein STOP1 is critical for proton tolerance in Arabidopsis and coregulates a key gene in aluminum tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9900-9905.	3.3	374
93	Effects of free proline accumulation in petunias under drought stress. Journal of Experimental Botany, 2005, 56, 1975-1981.	2.4	369
94	Comprehensive analysis of rice DREB2-type genes that encode transcription factors involved in the expression of abiotic stress-responsive genes. Molecular Genetics and Genomics, 2010, 283, 185-196.	1.0	362
95	Genome-Wide Survey and Expression Analysis of the Plant-Specific NAC Transcription Factor Family in Soybean During Development and Dehydration Stress. DNA Research, 2011, 18, 263-276.	1.5	362
96	A gene encoding a phosphatidylinositol-specific phospholipase C is induced by dehydration and salt stress in Arabidopsis thaliana.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 3903-3907.	3.3	360
97	Genetics and Phosphoproteomics Reveal a Protein Phosphorylation Network in the Abscisic Acid Signaling Pathway in Arabidopsis thaliana. Science Signaling, 2013, 6, rs8.	1.6	355
98	Arabidopsis plasma membrane protein crucial for Ca2+ influx and touch sensing in roots. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3639-3644.	3.3	352
99	Osmotic Stress Responses and Plant Growth Controlled by Potassium Transporters inArabidopsisÂ Â. Plant Cell, 2013, 25, 609-624.	3.1	350
100	The Mitogen-Activated Protein Kinase Cascade MKK3â€“MPK6 Is an Important Part of the Jasmonate Signal Transduction Pathway in Arabidopsis. Plant Cell, 2007, 19, 805-818.	3.1	347
101	ABA-Hypersensitive Germination3 Encodes a Protein Phosphatase 2C (AtPP2CA) That Strongly Regulates Abscisic Acid Signaling during Germination among Arabidopsis Protein Phosphatase 2Cs. Plant Physiology, 2006, 140, 115-126.	2.3	344
102	AtIPT3 is a Key Determinant of Nitrate-Dependent Cytokinin Biosynthesis in Arabidopsis. Plant and Cell Physiology, 2004, 45, 1053-1062.	1.5	343
103	ABA Transport and Plant Water Stress Responses. Trends in Plant Science, 2018, 23, 513-522.	4.3	343
104	Organization and expression of two Arabidopsis DREB2 genes encoding DRE-binding proteins involved in dehydration- and high-salinity-responsive gene expression. Plant Molecular Biology, 2000, 42, 657-665.	2.0	341
105	Comparative genomics of Physcomitrella patens gametophytic transcriptome and Arabidopsis thaliana: Implication for land plant evolution. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8007-8012.	3.3	341
106	Cloning and Functional Analysis of a Novel DREB1/CBF Transcription Factor Involved in Cold-Responsive Gene Expression in Zea mays L.. Plant and Cell Physiology, 2004, 45, 1042-1052.	1.5	336
107	TCP Transcription Factors Regulate the Activities of ASYMMETRIC LEAVES1 and miR164, as Well as the Auxin Response, during Differentiation of Leaves inArabidopsisÂ Â. Plant Cell, 2010, 22, 3574-3588.	3.1	335
108	Recent advances in the dissection of drought-stress regulatory networks and strategies for development of drought-tolerant transgenic rice plants. Frontiers in Plant Science, 2015, 6, 84.	1.7	334

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109	Sensing the environment: key roles of membrane-localized kinases in plant perception and response to abiotic stress. Journal of Experimental Botany, 2013, 64, 445-458.	2.4	325
110	Biological functions of proline in morphogenesis and osmotolerance revealed in antisense transgenic Arabidopsis thaliana. Plant Journal, 1999, 18, 185-193.	2.8	323
111	ABA control of plant macroelement membrane transport systems in response to water deficit and high salinity. New Phytologist, 2014, 202, 35-49.	3.5	321
112	Threonine at position 306 of the KAT1 potassium channel is essential for channel activity and is a target site for ABA-activated SnRK2/OST1/SnRK2.6 protein kinase. Biochemical Journal, 2009, 424, 439-448.	1.7	316
113	Metabolic Pathways Involved in Cold Acclimation Identified by Integrated Analysis of Metabolites and Transcripts Regulated by DREB1A and DREB2A Â Â. Plant Physiology, 2009, 150, 1972-1980.	2.3	315
114	A Stress-Inducible Gene for 9-cis-Epoxycarotenoid Dioxygenase Involved in Abscisic Acid Biosynthesis under Water Stress in Drought-Tolerant Cowpea. Plant Physiology, 2000, 123, 553-562.	2.3	314
115	Leucine-Rich Repeat Receptor-Like Kinase1 Is a Key Membrane-Bound Regulator of Abscisic Acid Early Signaling in Arabidopsis. Plant Cell, 2005, 17, 1105-1119.	3.1	313
116	SRK2C, a SNF1-related protein kinase 2, improves drought tolerance by controlling stress-responsive gene expression in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17306-17311.	3.3	312
117	Drought Induction of Arabidopsis 9-cis-Epoxycarotenoid Dioxygenase Occurs in Vascular Parenchyma Cells Â Â. Plant Physiology, 2008, 147, 1984-1993.	2.3	310
118	AnArabidopsisGene Family Encoding DRE/CRT Binding Proteins Involved in Low-Temperature-Responsive Gene Expression. Biochemical and Biophysical Research Communications, 1998, 250, 161-170.	1.0	309
119	Alterations of Lysine Modifications on the Histone H3 N-Tail under Drought Stress Conditions in Arabidopsis thaliana. Plant and Cell Physiology, 2008, 49, 1580-1588.	1.5	308
120	The AtGenExpress hormone- and chemical-treatment data set: Experimental design, data evaluation, model data analysis, and data access. Plant Journal, 2008, 55, 080414150319983.	2.8	307
121	The plant hormone abscisic acid mediates the drought-induced expression but not the seed-specific expression of rd22, a gene responsive to dehydration stress in Arabidopsis thaliana. Molecular Genetics and Genomics, 1993, 238-238, 17-25.	2.4	297
122	CYP707A3, a major ABA 8â€²-hydroxylase involved in dehydration and rehydration response inArabidopsis thaliana. Plant Journal, 2006, 46, 171-182.	2.8	294
123	Transcriptional Regulation of ABI3- and ABA-responsive Genes Including RD29B and RD29A in Seeds, Germinating Embryos, and Seedlings of Arabidopsis. Plant Molecular Biology, 2006, 60, 51-68.	2.0	293
124	STOP1 Regulates Multiple Genes That Protect Arabidopsis from Proton and Aluminum Toxicities Â Â Â. Plant Physiology, 2009, 150, 281-294.	2.3	283
125	Conserved domain structure of pentatricopeptide repeat proteins involved in chloroplast RNA editing. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8178-8183.	3.3	280
126	Genome-Wide Analysis of ZmDREB Genes and Their Association with Natural Variation in Drought Tolerance at Seedling Stage of Zea mays L. PLoS Genetics, 2013, 9, e1003790.	1.5	280

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127	MEKK1 Is Required for MPK4 Activation and Regulates Tissue-specific and Temperature-dependent Cell Death in Arabidopsis. Journal of Biological Chemistry, 2006, 281, 36969-36976.	1.6	271
128	Benefits of brassinosteroid crosstalk. Trends in Plant Science, 2012, 17, 594-605.	4.3	271
129	A Heterocomplex of Iron Superoxide Dismutases Defends Chloroplast Nucleoids against Oxidative Stress and Is Essential for Chloroplast Development inArabidopsis. Plant Cell, 2008, 20, 3148-3162.	3.1	270
130	Optimization of CRISPR/Cas9 genome editing to modify abiotic stress responses in plants. Scientific Reports, 2016, 6, 26685.	1.6	270
131	Structure and expression of two genes that encode distinct drought-inducible cysteine proteinases in Arabidopsis thaliana. Gene, 1993, 129, 175-182.	1.0	268
132	A Novel Zinc-binding Motif Revealed by Solution Structures of DNA-binding Domains of Arabidopsis SBP-family Transcription Factors. Journal of Molecular Biology, 2004, 337, 49-63.	2.0	267
133	Monitoring expression profiles ofArabidopsisgene expression during rehydration process after dehydration usingca. 7000 full-length cDNA microarray. Plant Journal, 2003, 34, 868-887.	2.8	263
134	An ABRE Promoter Sequence is Involved in Osmotic Stress-Responsive Expression of the DREB2A Gene, Which Encodes a Transcription Factor Regulating Drought-Inducible Genes in Arabidopsis. Plant and Cell Physiology, 2011, 52, 2136-2146.	1.5	263
135	ABA-Hypersensitive Germination1 encodes a protein phosphatase 2C, an essential component of abscisic acid signaling in Arabidopsis seed. Plant Journal, 2007, 50, 935-949.	2.8	260
136	Specific interactions between Dicer-like proteins and HYL1/DRB- family dsRNA-binding proteins in Arabidopsis thaliana. Plant Molecular Biology, 2005, 57, 173-188.	2.0	259
137	Co-expression of the stress-inducible zinc finger homeodomain ZFHD1 and NAC transcription factors enhances expression of the ERD1 gene in Arabidopsis. Plant Journal, 2006, 49, 46-63.	2.8	256
138	Plants Tolerant of High Boron Levels. Science, 2007, 318, 1417-1417.	6.0	256
139	Soybean <scp>DREB</scp>1/<scp>CBF</scp>â€type transcription factors function in heat and drought as well as cold stressâ€responsive gene expression. Plant Journal, 2015, 81, 505-518.	2.8	255
140	Drought tolerance established by enhanced expression of theCC-NBS-LRRgene,ADR1, requires salicylic acid, EDS1 and ABI1. Plant Journal, 2004, 38, 810-822.	2.8	253
141	Two genes that encode Ca2+-dependent protein kinases are induced by drought and high-salt stresses in Arabidopsis thaliana. Molecular Genetics and Genomics, 1994, 244, 331-340.	2.4	252
142	OsTZF1, a CCCH-Tandem Zinc Finger Protein, Confers Delayed Senescence and Stress Tolerance in Rice by Regulating Stress-Related Genes Â Â. Plant Physiology, 2013, 161, 1202-1216.	2.3	247
143	The FOX hunting system: an alternative gain-of-function gene hunting technique. Plant Journal, 2006, 48, 974-985.	2.8	244
144	Calmodulin-Dependent Activation of MAP Kinase for ROS Homeostasis in Arabidopsis. Molecular Cell, 2011, 41, 649-660.	4.5	243

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145	Identification of Cis-Acting Promoter Elements in Cold- and Dehydration-Induced Transcriptional Pathways in Arabidopsis, Rice, and Soybean. DNA Research, 2012, 19, 37-49.	1.5	241
146	Cloning of cDNAs for genes that are early-responsive to dehydration stress (ERDs) inArabidopsis thaliana L.: identification of three ERDs as HSP cognate genes. Plant Molecular Biology, 1994, 25, 791-798.	2.0	235
147	Genome-wide analysis of alternative pre-mRNA splicing in Arabidopsis thaliana based on full-length cDNA sequences. Nucleic Acids Research, 2004, 32, 5096-5103.	6.5	235
148	Acetate-mediated novel survival strategy against drought in plants. Nature Plants, 2017, 3, 17097.	4.7	232
149	DNA-binding domains of plant-specific transcription factors: structure, function, and evolution. Trends in Plant Science, 2013, 18, 267-276.	4.3	229
150	Characterization of two cDNAs that encode MAP kinase homologues in Arabidopsis thaliana and analysis of the possible role of auxin in activating such kinase activities in cultured cells. Plant Journal, 1994, 5, 111-122.	2.8	228
151	Integrated Analysis of the Effects of Cold and Dehydration on Rice Metabolites, Phytohormones, and Gene Transcripts. Plant Physiology, 2014, 164, 1759-1771.	2.3	228
152	Pentatricopeptide Repeat Proteins with the DYW Motif Have Distinct Molecular Functions in RNA Editing and RNA Cleavage in Arabidopsis Chloroplasts. Plant Cell, 2009, 21, 146-156.	3.1	226
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