Kazuko Yamaguchi-Shinozaki

List of Publications by Year
in descending order

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321 papers	92,566 citations	279 140 h-index	276 296 g-index
332 all docs	332 docs citations	332 times ranked	31666 citing authors

#	Article	IF	Citations
1	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
2	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
3	The complete nucleotide sequence of the tobacco chloroplast genome: its gene organization and expression. EMBO Journal, 1986, 5, 2043-2049.	3.5	2,180
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	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

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19	Transcriptional Regulatory Networks in Response to Abiotic Stresses in Arabidopsis and Grasses. Plant Physiology, 2009, 149, 88-95.	2.3	1,052
20	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
21	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
22	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
23	Gene Expression and Signal Transduction in Water-Stress Response. Plant Physiology, 1997, 115, 327-334.	2.3	980
24	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
25	Functional Analysis of an Arabidopsis Transcription Factor, DREB2A, Involved in Drought-Responsive Gene Expression. Plant Cell, 2006, 18, 1292-1309.	3.1	968
26	Role of arabidopsis MYC and MYB homologs in drought- and abscisic acid-regulated gene expression.. Plant Cell, 1997, 9, 1859-1868.	3.1	921
27	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
28	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
29	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
30	ABA-mediated transcriptional regulation in response to osmotic stress in plants. Journal of Plant Research, 2011, 124, 509-525.	1.2	860
31	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
32	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
33	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
34	ABA-dependent and ABA-independent signaling in response to osmotic stress in plants. Current Opinion in Plant Biology, 2014, 21, 133-139.	3.5	784
35	Transcriptional Regulatory Network of Plant Heat Stress Response. Trends in Plant Science, 2017, 22, 53-65.	4.3	782
36	NAC transcription factors in plant abiotic stress responses. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 97-103.	0.9	779

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37	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
38	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
39	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
40	Engineering drought tolerance in plants: discovering and tailoring genes to unlock the future. Current Opinion in Biotechnology, 2006, 17, 113-122.	3.3	683
41	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
42	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
43	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
44	ABA signaling in stress-response and seed development. Plant Cell Reports, 2013, 32, 959-970.	2.8	631
45	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
46	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
47	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
48	Regulation of Levels of Proline as an Osmolyte in Plants under Water Stress. Plant and Cell Physiology, 1997, 38, 1095-1102.	1.5	560
49	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
50	Identification of cold-inducible downstream genes of theArabidopsisDREB1A/CBF3 transcriptional factor using two microarray systems. Plant Journal, 2004, 38, 982-993.	2.8	546
51	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
52	Characterization of the ABAâ€regulated global responses to dehydration in Arabidopsis by metabolomics. Plant Journal, 2009, 57, 1065-1078.	2.8	519
53	An Arabidopsis myb homolog is induced by dehydration stress and its gene product binds to the conserved MYB recognition sequence.. Plant Cell, 1993, 5, 1529-1539.	3.1	514
54	A Transmembrane Hybrid-Type Histidine Kinase in Arabidopsis Functions as an Osmosensor. Plant Cell, 1999, 11, 1743-1754.	3.1	501

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55	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
56	Structural basis of abscisic acid signalling. Nature, 2009, 462, 609-614.	13.7	490
57	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
58	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
59	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
60	Cytokinins: metabolism and function in plant adaptation to environmental stresses. Trends in Plant Science, 2012, 17, 172-179.	4.3	466
61	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
62	Achievements and Challenges in Understanding Plant Abiotic Stress Responses and Tolerance. Plant and Cell Physiology, 2011, 52, 1569-1582.	1.5	451
63	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
64	Pivotal role of the AREB/ABFâ€SnRK2 pathway in ABREâ€mediated transcription in response to osmotic stress in plants. Physiologia Plantarum, 2013, 147, 15-27.	2.6	444
65	Molecular responses to drought and cold stress. Current Opinion in Biotechnology, 1996, 7, 161-167.	3.3	422
66	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
67	Antisense suppression of proline degradation improves tolerance to freezing and salinity in Arabidopsis thaliana. FEBS Letters, 1999, 461, 205-210.	1.3	405
68	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
69	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
70	A small peptide modulates stomatal control via abscisic acid in long-distance signalling. Nature, 2018, 556, 235-238.	13.7	396
71	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
72	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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73	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
74	Stress-induced expression in wheat of the Arabidopsis thaliana DREB1A gene delays water stress symptoms under greenhouse conditions. Genome, 2004, 47, 493-500.	0.9	369
75	Effects of free proline accumulation in petunias under drought stress. Journal of Experimental Botany, 2005, 56, 1975-1981.	2.4	369
76	Nuclear proteins bind conserved elements in the abscisic acid-responsive promoter of a rice rab gene.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 1406-1410.	3.3	364
77	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
78	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
79	Osmotic Stress Responses and Plant Growth Controlled by Potassium Transporters inArabidopsisÂ Â. Plant Cell, 2013, 25, 609-624.	3.1	350
80	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
81	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
82	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
83	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
84	A nuclear gene encoding mitochondrial proline dehydrogenase, an enzyme involved in proline metabolism, is upregulated by proline but downregulated by dehydration in Arabidopsis.. Plant Cell, 1996, 8, 1323-1335.	3.1	331
85	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
86	Biological functions of proline in morphogenesis and osmotolerance revealed in antisense transgenic Arabidopsis thaliana. Plant Journal, 1999, 18, 185-193.	2.8	323
87	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
88	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
89	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
90	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

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91	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
92	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
93	Regulons involved in osmotic stress-responsive and cold stress-responsive gene expression in plants. Physiologia Plantarum, 2006, 126, 62-71.	2.6	306
94	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
95	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
96	RPK2 is an essential receptor-like kinase that transmits the CLV3 signal in Arabidopsis. Development (Cambridge), 2010, 137, 3911-3920.	1.2	291
97	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
98	Benefits of brassinosteroid crosstalk. Trends in Plant Science, 2012, 17, 594-605.	4.3	271
99	Structure and expression of two genes that encode distinct drought-inducible cysteine proteinases in Arabidopsis thaliana. Gene, 1993, 129, 175-182.	1.0	268
100	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
101	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
102	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
103	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
104	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
105	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
106	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
107	Stress-inducible expression of At DREB1A in transgenic peanut (Arachis hypogaea L.) increases transpiration efficiency under water-limiting conditions. Plant Cell Reports, 2007, 26, 2071-2082.	2.8	240
108	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

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109	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
110	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
111	Characterization of the gene for delta1-pyrroline-5-carboxylate synthetase and correlation between the expression of the gene and salt tolerance in Oryza sativa L. Plant Molecular Biology, 1997, 33, 857-865.	2.0	222
112	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.	3.1	213
113	Potential utilization of NAC transcription factors to enhance abiotic stress tolerance in plants by biotechnological approach. GM Crops, 2010, 1, 32-39.	1.8	212
114	Functional analysis of an Arabidopsis heat-shock transcription factor HsfA3 in the transcriptional cascade downstream of the DREB2A stress-regulatory system. Biochemical and Biophysical Research Communications, 2008, 368, 515-521.	1.0	209
115	SNACâ€As, stressâ€responsive NAC transcription factors, mediate ABAâ€inducible leaf senescence. Plant Journal, 2015, 84, 1114-1123.	2.8	202
116	Drought Stress Responses and Resistance in Plants: From Cellular Responses to Long-Distance Intercellular Communication. Frontiers in Plant Science, 2020, 11, 556972.	1.7	199
117	Arabidopsis stress-inducible gene for arginine decarboxylase AtADC2 is required for accumulation of putrescine in salt tolerance. Biochemical and Biophysical Research Communications, 2004, 313, 369-375.	1.0	194
118	Characterization of Arabidopsis genes involved in biosynthesis of polyamines in abiotic stress responses and developmental stages. Plant, Cell and Environment, 2003, 26, 1917-1926.	2.8	191
119	Arabidopsis AHP2, AHP3, and AHP5 histidine phosphotransfer proteins function as redundant negative regulators of drought stress response. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4840-4845.	3.3	191
120	A nuclear gene, erd1, encoding a chloroplast-targeted Clp protease regulatory subunit homolog is not only induced by water stress but also developmentally up-regulated during senescence in Arabidopsis thaliana. Plant Journal, 1997, 12, 851-861.	2.8	190
121	Revisiting the Basal Role of ABA â€“ Roles Outside of Stress. Trends in Plant Science, 2019, 24, 625-635.	4.3	189
122	Two-component systems in plant signal transduction. Trends in Plant Science, 2000, 5, 67-74.	4.3	184
123	Arabidopsis GROWTH-REGULATING FACTOR7 Functions as a Transcriptional Repressor of Abscisic Acidâ€“ and Osmotic Stressâ€“Responsive Genes, Including DREB2A. Plant Cell, 2012, 24, 3393-3405.	3.1	184
124	Toward understanding transcriptional regulatory networks in abiotic stress responses and tolerance in rice. Rice, 2012, 5, 6.	1.7	183
125	The Phytochrome-Interacting Factor PIF7 Negatively RegulatesDREB1Expression under Circadian Control in Arabidopsis. Plant Physiology, 2009, 151, 2046-2057.	2.3	181
126	A gene encoding phosphatidylinositolâ€4â€phosphate 5â€kinase is induced by water stress and abscisic acid inArabidopsis thaliana. Plant Journal, 1998, 15, 563-568.	2.8	173

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127	Temporal and spatial changes in gene expression, metabolite accumulation and phytohormone content in rice seedlings grown under drought stress conditions. Plant Journal, 2017, 90, 61-78.	2.8	173
128	Receptor-like protein kinase 2 (RPK 2) is a novel factor controlling anther development in Arabidopsis thaliana. Plant Journal, 2007, 50, 751-766.	2.8	171
129	Abiotic stressâ€inducible receptorâ€like kinases negatively control ABA signaling in Arabidopsis. Plant Journal, 2012, 70, 599-613.	2.8	168
130	Hyperosmotic Stress Induces a Rapid and Transient Increase in Inositol 1,4,5-Trisphosphate Independent of Abscisic Acid in Arabidopsis Cell Culture. Plant and Cell Physiology, 2001, 42, 214-222.	1.5	167
131	A Novel Subgroup of bZIP Proteins Functions as Transcriptional Activators in Hypoosmolarity-Responsive Expression of the ProDH Gene in Arabidopsis. Plant and Cell Physiology, 2004, 45, 309-317.	1.5	166
132	Arabidopsis DNA Encoding Two Desiccation-Responsive rd29 Genes. Plant Physiology, 1993, 101, 1119-1120.	2.3	165
133	Arabidopsis Cys2/His2 Zinc-Finger Proteins AZF1 and AZF2 Negatively Regulate Abscisic Acid-Repressive and Auxin-Inducible Genes under Abiotic Stress Conditions Â Â. Plant Physiology, 2011, 157, 742-756.	2.3	165
134	Structure and function of abscisic acid receptors. Trends in Plant Science, 2013, 18, 259-266.	4.3	164
135	Differential Gene Expression in Soybean Leaf Tissues at Late Developmental Stages under Drought Stress Revealed by Genome-Wide Transcriptome Analysis. PLoS ONE, 2012, 7, e49522.	1.1	162
136	ACTCAT, a Novel cis-Acting Element for Proline- and Hypoosmolarity-Responsive Expression of the ProDH Gene Encoding Proline Dehydrogenase in Arabidopsis. Plant Physiology, 2002, 130, 709-719.	2.3	159
137	Six chloroplast genes (ndhA-F) homologous to human mitochondrial genes encoding components of the respiratory chain NADH dehydrogenase are actively expressed: Determination of the splice sites in ndhA and ndhB pre-mRNAs. Molecular Genetics and Genomics, 1987, 210, 385-393.	2.4	158
138	Different Cold-Signaling Pathways Function in the Responses to Rapid and Gradual Decreases in Temperature. Plant Cell, 2017, 29, 760-774.	3.1	158
139	DEAR1, a transcriptional repressor of DREB protein that mediates plant defense and freezing stress responses in Arabidopsis. Journal of Plant Research, 2009, 122, 633-643.	1.2	154
140	The Transcriptional Cascade in the Heat Stress Response of Arabidopsis Is Strictly Regulated at the Level of Transcription Factor Expression. Plant Cell, 2016, 28, 181-201.	3.1	152
141	Functional Analysis of an Arabidopsis thaliana Abiotic Stress-inducible Facilitated Diffusion Transporter for Monosaccharides. Journal of Biological Chemistry, 2010, 285, 1138-1146.	1.6	151
142	The Auxin Response Factor Transcription Factor Family in Soybean: Genome-Wide Identification and Expression Analyses During Development and Water Stress. DNA Research, 2013, 20, 511-524.	1.5	151
143	GmDREB2A;2, a Canonical DEHYDRATION-RESPONSIVE ELEMENT-BINDING PROTEIN2-Type Transcription Factor in Soybean, Is Posttranslationally Regulated and Mediates Dehydration-Responsive Element-Dependent Gene Expression Â Â. Plant Physiology, 2012, 161, 346-361.	2.3	149
144	Possible His to Asp phosphorelay signaling in anArabidopsistwo-component system. FEBS Letters, 2000, 478, 227-232.	1.3	147

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145	Transcriptome Analyses of a Salt-Tolerant Cytokinin-Deficient Mutant Reveal Differential Regulation of Salt Stress Response by Cytokinin Deficiency. PLoS ONE, 2012, 7, e32124.	1.1	146
146	Double overexpression of <scp>DREB</scp> and <scp>PIF</scp> transcription factors improves drought stress tolerance and cell elongation in transgenic plants. Plant Biotechnology Journal, 2017, 15, 458-471.	4.1	145
147	Four tightly linked rab genes are differentially expressed in rice. Plant Molecular Biology, 1990, 14, 29-39.	2.0	143
148	Arabidopsis DPB3-1, a DREB2A Interactor, Specifically Enhances Heat Stress-Induced Gene Expression by Forming a Heat Stress-Specific Transcriptional Complex with NF-Y Subunits. Plant Cell, 2014, 26, 4954-4973.	3.1	143
149	Efficient production of male and female sterile plants by expression of a chimeric repressor in Arabidopsis and rice. Plant Biotechnology Journal, 2006, 4, 325-332.	4.1	139
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