Kazuo Shinozaki

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#	Paper	IF	Citations
618	Genome sequence of the palaeopolyploid soybean. <i>Nature</i> , 2010 , 463, 178-83	50.4	2997
617	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. <i>Plant Cell</i> , 1998 , 10, 1391-406	11.6	2259
616	Transcriptional regulatory networks in cellular responses and tolerance to dehydration and cold stresses. <i>Annual Review of Plant Biology</i> , 2006 , 57, 781-803	30.7	2136
615	A novel cis-acting element in an Arabidopsis gene is involved in responsiveness to drought, low-temperature, or high-salt stress. <i>Plant Cell</i> , 1994 , 6, 251-64	11.6	1655
614	Improving plant drought, salt, and freezing tolerance by gene transfer of a single stress-inducible transcription factor. <i>Nature Biotechnology</i> , 1999 , 17, 287-91	44.5	1632
613	Gene networks involved in drought stress response and tolerance. <i>Journal of Experimental Botany</i> , 2007 , 58, 221-7	7	1627
612	Arabidopsis AtMYC2 (bHLH) and AtMYB2 (MYB) function as transcriptional activators in abscisic acid signaling. <i>Plant Cell</i> , 2003 , 15, 63-78	11.6	1552
611	Monitoring the expression profiles of 7000 Arabidopsis genes under drought, cold and high-salinity stresses using a full-length cDNA microarray. <i>Plant Journal</i> , 2002 , 31, 279-92	6.9	1501
610	Regulatory network of gene expression in the drought and cold stress responses. <i>Current Opinion in Plant Biology</i> , 2003 , 6, 410-7	9.9	1398
609	Crosstalk between abiotic and biotic stress responses: a current view from the points of convergence in the stress signaling networks. <i>Current Opinion in Plant Biology</i> , 2006 , 9, 436-42	9.9	1340
608	DNA-binding specificity of the ERF/AP2 domain of Arabidopsis DREBs, transcription factors involved in dehydration- and cold-inducible gene expression. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 290, 998-1009	3.4	1248
607	Molecular responses to dehydration and low temperature: differences and cross-talk between two stress signaling pathways. <i>Current Opinion in Plant Biology</i> , 2000 , 3, 217-223	9.9	1206
606	OsDREB genes in rice, Oryza sativa L., encode transcription activators that function in drought-, high-salt- and cold-responsive gene expression. <i>Plant Journal</i> , 2003 , 33, 751-63	6.9	1152
605	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. <i>Plant Cell</i> , 2004 , 16, 2481-98	11.6	1040
604	Arabidopsis basic leucine zipper transcription factors involved in an abscisic acid-dependent signal transduction pathway under drought and high-salinity conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 11632-7	11.5	988
603	Organization of cis-acting regulatory elements in osmotic- and cold-stress-responsive promoters. <i>Trends in Plant Science</i> , 2005 , 10, 88-94	13.1	961
602	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. <i>Molecular Genetics and Genomics</i> , 1989 , 217, 185-94		944

601	Monitoring the expression pattern of 1300 Arabidopsis genes under drought and cold stresses by using a full-length cDNA microarray. <i>Plant Cell</i> , 2001 , 13, 61-72	11.6	910
600	Gene Expression and Signal Transduction in Water-Stress Response. <i>Plant Physiology</i> , 1997 , 115, 327-33	4 6.6	899
599	Regulation of drought tolerance by gene manipulation of 9-cis-epoxycarotenoid dioxygenase, a key enzyme in abscisic acid biosynthesis in Arabidopsis. <i>Plant Journal</i> , 2001 , 27, 325-33	6.9	896
598	Mitogen-activated protein kinase cascades in plants: a new nomenclature. <i>Trends in Plant Science</i> , 2002 , 7, 301-8	13.1	891
597	Important roles of drought- and cold-inducible genes for galactinol synthase in stress tolerance in Arabidopsis thaliana. <i>Plant Journal</i> , 2002 , 29, 417-26	6.9	835
596	Research on plant abiotic stress responses in the post-genome era: past, present and future. <i>Plant Journal</i> , 2010 , 61, 1041-52	6.9	827
595	Role of arabidopsis MYC and MYB homologs in drought- and abscisic acid-regulated gene expression. <i>Plant Cell</i> , 1997 , 9, 1859-68	11.6	825
594	AP2/ERF family transcription factors in plant abiotic stress responses. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012 , 1819, 86-96	6	803
593	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. <i>Plant Physiology</i> , 2003 , 133, 1755-67	6.6	799
592	Functional analysis of a NAC-type transcription factor OsNAC6 involved in abiotic and biotic stress-responsive gene expression in rice. <i>Plant Journal</i> , 2007 , 51, 617-30	6.9	782
591	Empirical analysis of transcriptional activity in the Arabidopsis genome. <i>Science</i> , 2003 , 302, 842-6	33.3	782
590	Functional analysis of an Arabidopsis transcription factor, DREB2A, involved in drought-responsive gene expression. <i>Plant Cell</i> , 2006 , 18, 1292-309	11.6	780
589	Effects of abiotic stress on plants: a systems biology perspective. <i>BMC Plant Biology</i> , 2011 , 11, 163	5.3	771
588	Identification of CRE1 as a cytokinin receptor from Arabidopsis. <i>Nature</i> , 2001 , 409, 1060-3	50.4	759
587	Response of plants to water stress. Frontiers in Plant Science, 2014 , 5, 86	6.2	740
586	The MKK2 pathway mediates cold and salt stress signaling in Arabidopsis. <i>Molecular Cell</i> , 2004 , 15, 141-	52 7.6	713
585	A dehydration-induced NAC protein, RD26, is involved in a novel ABA-dependent stress-signaling pathway. <i>Plant Journal</i> , 2004 , 39, 863-76	6.9	693
584	Type 2C protein phosphatases directly regulate abscisic acid-activated protein kinases in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17588-93	11.5	681

583	Functional analysis of rice DREB1/CBF-type transcription factors involved in cold-responsive gene expression in transgenic rice. <i>Plant and Cell Physiology</i> , 2006 , 47, 141-53	4.9	671
582	ABA-mediated transcriptional regulation in response to osmotic stress in plants. <i>Journal of Plant Research</i> , 2011 , 124, 509-25	2.6	650
581	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. <i>Plant Journal</i> , 2010 , 61, 672-85	6.9	647
580	AREB1 is a transcription activator of novel ABRE-dependent ABA signaling that enhances drought stress tolerance in Arabidopsis. <i>Plant Cell</i> , 2005 , 17, 3470-88	11.6	638
579	Regulatory metabolic networks in drought stress responses. <i>Current Opinion in Plant Biology</i> , 2007 , 10, 296-302	9.9	636
578	Molecular basis of the core regulatory network in ABA responses: sensing, signaling and transport. <i>Plant and Cell Physiology</i> , 2010 , 51, 1821-39	4.9	612
577	NAC transcription factors in plant abiotic stress responses. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012 , 1819, 97-103	6	594
576	Functional annotation of a full-length Arabidopsis cDNA collection. <i>Science</i> , 2002 , 296, 141-5	33.3	588
575	Abscisic acid-dependent multisite phosphorylation regulates the activity of a transcription activator AREB1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 198	8- 93 5	578
574	NAC transcription factors, NST1 and NST3, are key regulators of the formation of secondary walls in woody tissues of Arabidopsis. <i>Plant Cell</i> , 2007 , 19, 270-80	11.6	576
573	Engineering drought tolerance in plants: discovering and tailoring genes to unlock the future. <i>Current Opinion in Biotechnology</i> , 2006 , 17, 113-22	11.4	575
572	Enhancement of oxidative and drought tolerance in Arabidopsis by overaccumulation of antioxidant flavonoids. <i>Plant Journal</i> , 2014 , 77, 367-79	6.9	573
571	Dual function of an Arabidopsis transcription factor DREB2A in water-stress-responsive and heat-stress-responsive gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18822-7	11.5	561
570	In planta functions of the Arabidopsis cytokinin receptor family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8821-6	11.5	529
569	A combination of the Arabidopsis DREB1A gene and stress-inducible rd29A promoter improved drought- and low-temperature stress tolerance in tobacco by gene transfer. <i>Plant and Cell Physiology</i> , 2004 , 45, 346-50	4.9	527
568	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. <i>Plant Journal</i> , 2003 , 34, 137-48	6.9	516
567	The NAC transcription factors NST1 and NST2 of Arabidopsis regulate secondary wall thickenings and are required for anther dehiscence. <i>Plant Cell</i> , 2005 , 17, 2993-3006	11.6	514
566	The transcriptional regulatory network in the drought response and its crosstalk in abiotic stress responses including drought, cold, and heat. <i>Frontiers in Plant Science</i> , 2014 , 5, 170	6.2	499

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565	Comparative genomics in salt tolerance between Arabidopsis and aRabidopsis-related halophyte salt cress using Arabidopsis microarray. <i>Plant Physiology</i> , 2004 , 135, 1697-709	6.6	497	
564	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. <i>Plant and Cell Physiology</i> , 2009 , 50, 1345-63	4.9	495	
563	Various abiotic stresses rapidly activate Arabidopsis MAP kinases ATMPK4 and ATMPK6. <i>Plant Journal</i> , 2000 , 24, 655-65	6.9	492	
562	Identification of cold-inducible downstream genes of the Arabidopsis DREB1A/CBF3 transcriptional factor using two microarray systems. <i>Plant Journal</i> , 2004 , 38, 982-93	6.9	479	
561	Functional analysis of AHK1/ATHK1 and cytokinin receptor histidine kinases in response to abscisic acid, drought, and salt stress in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20623-8	11.5	469	
560	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. <i>Plant Cell</i> , 2011 , 23, 2169-83	11.6	464	
559	A transmembrane hybrid-type histidine kinase in Arabidopsis functions as an osmosensor. <i>Plant Cell</i> , 1999 , 11, 1743-54	11.6	464	
558	Arabidopsis Cys2/His2-type zinc-finger proteins function as transcription repressors under drought, cold, and high-salinity stress conditions. <i>Plant Physiology</i> , 2004 , 136, 2734-46	6.6	458	
557	Three SnRK2 protein kinases are the main positive regulators of abscisic acid signaling in response to water stress in Arabidopsis. <i>Plant and Cell Physiology</i> , 2009 , 50, 2123-32	4.9	457	
556	Transcriptional Regulatory Network of Plant Heat Stress Response. <i>Trends in Plant Science</i> , 2017 , 22, 53-65	13.1	45 ¹	
555	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. <i>Proceedings of the National Academy of Sciences of the</i>	11.5	451	
554	United States of America, 1996 , 93, 765-9 ABA-activated SnRK2 protein kinase is required for dehydration stress signaling in Arabidopsis. Plant and Cell Physiology, 2002 , 43, 1473-83	4.9	441	
553	Characterization of the ABA-regulated global responses to dehydration in Arabidopsis by metabolomics. <i>Plant Journal</i> , 2009 , 57, 1065-78	6.9	427	
552	Arabidopsis transcriptome analysis under drought, cold, high-salinity and ABA treatment conditions using a tiling array. <i>Plant and Cell Physiology</i> , 2008 , 49, 1135-49	4.9	4º7	
551	Characterization of the expression of a desiccation-responsive rd29 gene of Arabidopsis thaliana and analysis of its promoter in transgenic plants. <i>Molecular Genetics and Genomics</i> , 1993 , 236, 331-40		400	
550	ABC transporter AtABCG25 is involved in abscisic acid transport and responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 2361-6	11.5	397	
549	Correlation between the induction of a gene for delta 1-pyrroline-5-carboxylate synthetase and the accumulation of proline in Arabidopsis thaliana under osmotic stress. <i>Plant Journal</i> , 1995 , 7, 751-60	6.9	395	
548	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. <i>Journal of Biological Chemistry</i> 2006 , 281, 5310-8	5.4	388	

547	The AtGenExpress hormone and chemical treatment data set: experimental design, data evaluation, model data analysis and data access. <i>Plant Journal</i> , 2008 , 55, 526-542	6.9	383
546	Cytokinins: metabolism and function in plant adaptation to environmental stresses. <i>Trends in Plant Science</i> , 2012 , 17, 172-9	13.1	377
545	Molecular responses to drought and cold stress. Current Opinion in Biotechnology, 1996, 7, 161-7	11.4	372
544	'Omics' analyses of regulatory networks in plant abiotic stress responses. <i>Current Opinion in Plant Biology</i> , 2010 , 13, 132-8	9.9	371
543	Positive regulatory role of strigolactone in plant responses to drought and salt stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 851-6	11.5	370
542	Perception and transduction of abscisic acid signals: keys to the function of the versatile plant hormone ABA. <i>Trends in Plant Science</i> , 2007 , 12, 343-51	13.1	368
541	Molecular responses to drought, salinity and frost: common and different paths for plant protection. <i>Current Opinion in Biotechnology</i> , 2003 , 14, 194-9	11.4	368
540	Antagonistic interaction between systemic acquired resistance and the abscisic acid-mediated abiotic stress response in Arabidopsis. <i>Plant Cell</i> , 2008 , 20, 1678-92	11.6	367
539	Arabidopsis DREB2A-interacting proteins function as RING E3 ligases and negatively regulate plant drought stress-responsive gene expression. <i>Plant Cell</i> , 2008 , 20, 1693-707	11.6	361
538	Regulation and functional analysis of ZmDREB2A in response to drought and heat stresses in Zea mays L. <i>Plant Journal</i> , 2007 , 50, 54-69	6.9	353
537	Monitoring the expression pattern of around 7,000 Arabidopsis genes under ABA treatments using a full-length cDNA microarray. <i>Functional and Integrative Genomics</i> , 2002 , 2, 282-91	3.8	353
536	Achievements and challenges in understanding plant abiotic stress responses and tolerance. <i>Plant and Cell Physiology</i> , 2011 , 52, 1569-82	4.9	347
535	Antisense suppression of proline degradation improves tolerance to freezing and salinity in Arabidopsis thaliana. <i>FEBS Letters</i> , 1999 , 461, 205-10	3.8	345
534	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. <i>Plant and Cell Physiology</i> , 1992 , 33, 217-224	4.9	338
533	Two different novel cis-acting elements of erd1, a clpA homologous Arabidopsis gene function in induction by dehydration stress and dark-induced senescence. <i>Plant Journal</i> , 2003 , 33, 259-70	6.9	334
532	A gene encoding a phosphatidylinositol-specific phospholipase C is induced by dehydration and salt stress in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 3903-7	11.5	323
531	The abiotic stress-responsive NAC-type transcription factor OsNAC5 regulates stress-inducible genes and stress tolerance in rice. <i>Molecular Genetics and Genomics</i> , 2010 , 284, 173-83	3.1	320
530	Four Arabidopsis AREB/ABF transcription factors function predominantly in gene expression downstream of SnRK2 kinases in abscisic acid signalling in response to osmotic stress. <i>Plant, Cell and Environment</i> 2015, 38, 35, 49	8.4	307

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529	Comparative genomics of Physcomitrella patens gametophytic transcriptome and Arabidopsis thaliana: implication for land plant evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 8007-12	11.5	301
528	Importance of lineage-specific expansion of plant tandem duplicates in the adaptive response to environmental stimuli. <i>Plant Physiology</i> , 2008 , 148, 993-1003	6.6	299
527	AtIPT3 is a key determinant of nitrate-dependent cytokinin biosynthesis in Arabidopsis. <i>Plant and Cell Physiology</i> , 2004 , 45, 1053-62	4.9	295
526	Organization and expression of two Arabidopsis DREB2 genes encoding DRE-binding proteins involved in dehydration- and high-salinity-responsive gene expression. <i>Plant Molecular Biology</i> , 2000 , 42, 657-65	4.6	291
525	Biological functions of proline in morphogenesis and osmotolerance revealed in antisense transgenic Arabidopsis thaliana. <i>Plant Journal</i> , 1999 , 18, 185-93	6.9	290
524	Effects of free proline accumulation in petunias under drought stress. <i>Journal of Experimental Botany</i> , 2005 , 56, 1975-81	7	289
523	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, 3639-44	11.5	287
522	ABA-hypersensitive germination3 encodes a protein phosphatase 2C (AtPP2CA) that strongly regulates abscisic acid signaling during germination among Arabidopsis protein phosphatase 2Cs. <i>Plant Physiology</i> , 2006 , 140, 115-26	6.6	284
521	Zinc finger protein STOP1 is critical for proton tolerance in Arabidopsis and coregulates a key gene in aluminum tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 9900-5	11.5	283
520	Genome-wide survey and expression analysis of the plant-specific NAC transcription factor family in soybean during development and dehydration stress. <i>DNA Research</i> , 2011 , 18, 263-76	4.5	278
519	The mitogen-activated protein kinase cascade MKK3-MPK6 is an important part of the jasmonate signal transduction pathway in Arabidopsis. <i>Plant Cell</i> , 2007 , 19, 805-18	11.6	277
518	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. <i>Biochemical Journal</i> , 2009 , 424, 439-	4 8 8	276
517	Sensing the environment: key roles of membrane-localized kinases in plant perception and response to abiotic stress. <i>Journal of Experimental Botany</i> , 2013 , 64, 445-58	7	274
516	A stress-inducible gene for 9-cis-epoxycarotenoid dioxygenase involved in abscisic acid biosynthesis under water stress in drought-tolerant cowpea. <i>Plant Physiology</i> , 2000 , 123, 553-62	6.6	273
515	SRK2C, a SNF1-related protein kinase 2, improves drought tolerance by controlling stress-responsive gene expression in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17306-11	11.5	272
514	Cloning and functional analysis of a novel DREB1/CBF transcription factor involved in cold-responsive gene expression in Zea mays L. <i>Plant and Cell Physiology</i> , 2004 , 45, 1042-52	4.9	272
513	An Arabidopsis gene family encoding DRE/CRT binding proteins involved in low-temperature-responsive gene expression. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 250, 161-70	3.4	267
512	TCP transcription factors regulate the activities of ASYMMETRIC LEAVES1 and miR164, as well as the auxin response, during differentiation of leaves in Arabidopsis. <i>Plant Cell</i> , 2010 , 22, 3574-88	11.6	266

511	Comprehensive analysis of rice DREB2-type genes that encode transcription factors involved in the expression of abiotic stress-responsive genes. <i>Molecular Genetics and Genomics</i> , 2010 , 283, 185-96	3.1	262
510	Metabolic pathways involved in cold acclimation identified by integrated analysis of metabolites and transcripts regulated by DREB1A and DREB2A. <i>Plant Physiology</i> , 2009 , 150, 1972-80	6.6	261
509	Genetics and phosphoproteomics reveal a protein phosphorylation network in the abscisic acid signaling pathway in Arabidopsis thaliana. <i>Science Signaling</i> , 2013 , 6, rs8	8.8	259
508	Arabidopsis HsfA1 transcription factors function as the main positive regulators in heat shock-responsive gene expression. <i>Molecular Genetics and Genomics</i> , 2011 , 286, 321-32	3.1	253
507	Drought induction of Arabidopsis 9-cis-epoxycarotenoid dioxygenase occurs in vascular parenchyma cells. <i>Plant Physiology</i> , 2008 , 147, 1984-93	6.6	253
506	Recent advances in the dissection of drought-stress regulatory networks and strategies for development of drought-tolerant transgenic rice plants. <i>Frontiers in Plant Science</i> , 2015 , 6, 84	6.2	250
505	Transcriptional regulation of ABI3- and ABA-responsive genes including RD29B and RD29A in seeds, germinating embryos, and seedlings of Arabidopsis. <i>Plant Molecular Biology</i> , 2006 , 60, 51-68	4.6	249
504	Alterations of lysine modifications on the histone H3 N-tail under drought stress conditions in Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2008 , 49, 1580-8	4.9	248
503	Structure and expression of two genes that encode distinct drought-inducible cysteine proteinases in Arabidopsis thaliana. <i>Gene</i> , 1993 , 129, 175-82	3.8	244
502	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. <i>Molecular Genetics and Genomics</i> , 1993 , 238, 17-25		240
501	Leucine-rich repeat receptor-like kinase1 is a key membrane-bound regulator of abscisic acid early signaling in Arabidopsis. <i>Plant Cell</i> , 2005 , 17, 1105-19	11.6	239
500	The AtGenExpress hormone and chemical treatment data set: experimental design, data evaluation, model data analysis and data access. <i>Plant Journal</i> , 2008 , 55, 526-42	6.9	238
499	Osmotic stress responses and plant growth controlled by potassium transporters in Arabidopsis. <i>Plant Cell</i> , 2013 , 25, 609-24	11.6	237
498	CYP707A3, a major ABA 8'-hydroxylase involved in dehydration and rehydration response in Arabidopsis thaliana. <i>Plant Journal</i> , 2006 , 46, 171-82	6.9	233
497	Benefits of brassinosteroid crosstalk. <i>Trends in Plant Science</i> , 2012 , 17, 594-605	13.1	232
496	Conserved domain structure of pentatricopeptide repeat proteins involved in chloroplast RNA editing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 817	8 ⁻¹⁸¹ 35	232
495	MEKK1 is required for MPK4 activation and regulates tissue-specific and temperature-dependent cell death in Arabidopsis. <i>Journal of Biological Chemistry</i> , 2006 , 281, 36969-76	5.4	224
494	Monitoring expression profiles of Arabidopsis gene expression during rehydration process after dehydration using ca 7000 full-length cDNA microarray. <i>Plant Journal</i> , 2003 , 34, 868-87	6.9	223

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493	Specific interactions between Dicer-like proteins and HYL1/DRB-family dsRNA-binding proteins in Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2005 , 57, 173-88	4.6	221
492	ABA control of plant macroelement membrane transport systems in response to water deficit and high salinity. <i>New Phytologist</i> , 2014 , 202, 35-49	9.8	217
491	Two genes that encode Ca(2+)-dependent protein kinases are induced by drought and high-salt stresses in Arabidopsis thaliana. <i>Molecular Genetics and Genomics</i> , 1994 , 244, 331-40		215
490	A small peptide modulates stomatal control via abscisic acid in long-distance signalling. <i>Nature</i> , 2018 , 556, 235-238	50.4	214
489	STOP1 regulates multiple genes that protect arabidopsis from proton and aluminum toxicities. <i>Plant Physiology</i> , 2009 , 150, 281-94	6.6	212
488	The nucleotide sequence of the tobacco chloroplast gene for the large subunit of ribulose-1,5-bisphosphate carboxylase/oxygenase. <i>Gene</i> , 1982 , 20, 91-102	3.8	212
487	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. <i>Plant Journal</i> , 1994 , 5, 111-22	6.9	209
486	ABA-Hypersensitive Germination1 encodes a protein phosphatase 2C, an essential component of abscisic acid signaling in Arabidopsis seed. <i>Plant Journal</i> , 2007 , 50, 935-49	6.9	208
485	Plants tolerant of high boron levels. <i>Science</i> , 2007 , 318, 1417	33.3	207
484	Harpin induces activation of the Arabidopsis mitogen-activated protein kinases AtMPK4 and AtMPK6. <i>Plant Physiology</i> , 2001 , 126, 1579-87	6.6	205
483	Co-expression of the stress-inducible zinc finger homeodomain ZFHD1 and NAC transcription factors enhances expression of the ERD1 gene in Arabidopsis. <i>Plant Journal</i> , 2007 , 49, 46-63	6.9	204
482	Drought tolerance established by enhanced expression of the CC-NBS-LRR gene, ADR1, requires salicylic acid, EDS1 and ABI1. <i>Plant Journal</i> , 2004 , 38, 810-22	6.9	203
481	A heterocomplex of iron superoxide dismutases defends chloroplast nucleoids against oxidative stress and is essential for chloroplast development in Arabidopsis. <i>Plant Cell</i> , 2008 , 20, 3148-62	11.6	201
480	Curated genome annotation of Oryza sativa ssp. japonica and comparative genome analysis with Arabidopsis thaliana. <i>Genome Research</i> , 2007 , 17, 175-83	9.7	200
479	The FOX hunting system: an alternative gain-of-function gene hunting technique. <i>Plant Journal</i> , 2006 , 48, 974-85	6.9	199
478	ABA Transport and Plant Water Stress Responses. <i>Trends in Plant Science</i> , 2018 , 23, 513-522	13.1	197
477	Genome-wide analysis of alternative pre-mRNA splicing in Arabidopsis thaliana based on full-length cDNA sequences. <i>Nucleic Acids Research</i> , 2004 , 32, 5096-103	20.1	195
476	Optimization of CRISPR/Cas9 genome editing to modify abiotic stress responses in plants. <i>Scientific Reports</i> , 2016 , 6, 26685	4.9	192

475	MS/MS spectral tag-based annotation of non-targeted profile of plant secondary metabolites. <i>Plant Journal</i> , 2009 , 57, 555-77	6.9	191
474	Calmodulin-dependent activation of MAP kinase for ROS homeostasis in Arabidopsis. <i>Molecular Cell</i> , 2011 , 41, 649-60	17.6	190
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472	High-efficiency cloning of Arabidopsis full-length cDNA by biotinylated CAP trapper. <i>Plant Journal</i> , 1998 , 15, 707-20	6.9	189
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2	ABA Transport by ABCG Transporter Proteins. Signaling and Communication in Plants, 2014, 39-47	1
7	Transcriptome Analysis of , Which Shows the Fastest Germination and Growth in the Major	62