Hitoshi Sakakibara

List of Publications by Year
in descending order

290 papers	33,272 citations	3149 92 h-index	4628 170 g-index
302 all docs	302 docs citations	302 times ranked	22697 citing authors

#	Article	IF	Citations
1	Cytokinin Oxidase Regulates Rice Grain Production. Science, 2005, 309, 741-745.	6.0	1,620
2	CYTOKININS: Activity, Biosynthesis, and Translocation. Annual Review of Plant Biology, 2006, 57, 431-449.	8.6	1,165
3	Enhancement of oxidative and drought tolerance in Arabidopsis by overaccumulation of antioxidant flavonoids. Plant Journal, 2014, 77, 367-379.	2.8	911
4	The ethylene response factors SNORKEL1 and SNORKEL2 allow rice to adapt to deep water. Nature, 2009, 460, 1026-1030.	13.7	840
5	Direct control of shoot meristem activity by a cytokinin-activating enzyme. Nature, 2007, 445, 652-655.	13.7	797
6	Delayed leaf senescence induces extreme drought tolerance in a flowering plant. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19631-19636.	3.3	768
7	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
8	<i>DWARF10</i>, an <i>RMS1/MAX4/DAD1</i> ortholog, controls lateral bud outgrowth in rice. Plant Journal, 2007, 51, 1019-1029.	2.8	533
9	PSEUDO-RESPONSE REGULATORS 9, 7, and 5 Are Transcriptional Repressors in the <i>Arabidopsis</i> Circadian Clock Â. Plant Cell, 2010, 22, 594-605.	3.1	507
10	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
11	Regulation of cytokinin biosynthesis, compartmentalization and translocation. Journal of Experimental Botany, 2007, 59, 75-83.	2.4	463
12	Interactions between nitrogen and cytokinin in the regulation of metabolism and development. Trends in Plant Science, 2006, 11, 440-448.	4.3	446
13	Identification of Genes Encoding Adenylate Isopentenyltransferase, a Cytokinin Biosynthesis Enzyme, inArabidopsis thaliana. Journal of Biological Chemistry, 2001, 276, 26405-26410.	1.6	432
14	Highly Sensitive and High-Throughput Analysis of Plant Hormones Using MS-Probe Modification and Liquid Chromatographyâ€"Tandem Mass Spectrometry: An Application for Hormone Profiling in Oryza sativa. Plant and Cell Physiology, 2009, 50, 1201-1214.	1.5	429
15	Hormonal control of nitrogen acquisition: roles of auxin, abscisic acid, and cytokinin. Journal of Experimental Botany, 2011, 62, 1399-1409.	2.4	418
16	Two Cytosolic Glutamine Synthetase Isoforms of Maize Are Specifically Involved in the Control of Grain Production. Plant Cell, 2006, 18, 3252-3274.	3.1	416
17	Auxin controls local cytokinin biosynthesis in the nodal stem in apical dominance. Plant Journal, 2006, 45, 1028-1036.	2.8	410
18	The Cytokinin-Activated Transcription Factor ARR2 Promotes Plant Immunity via TGA3/NPR1-Dependent Salicylic Acid Signaling in Arabidopsis. Developmental Cell, 2010, 19, 284-295.	3.1	400

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19	Arabidopsis CYP735A1 and CYP735A2 Encode Cytokinin Hydroxylases That Catalyze the Biosynthesis of trans-Zeatin. Journal of Biological Chemistry, 2004, 279, 41866-41872.	1.6	377
20	Functional Analyses of <i>LONELY GUY</i> Cytokinin-Activating Enzymes Reveal the Importance of the Direct Activation Pathway in <i>Arabidopsis</i> Â Â. Plant Cell, 2009, 21, 3152-3169.	3.1	376
21	The AP2/ERF Transcription Factor WIND1 Controls Cell Dedifferentiation in Arabidopsis. Current Biology, 2011, 21, 508-514.	1.8	369
22	Nitrogen-Dependent Accumulation of Cytokinins in Root and theTranslocation to Leaf: Implication of Cytokinin Species that Induces GeneExpression of Maize ResponseRegulator. Plant and Cell Physiology, 2001, 42, 85-93.	1.5	362
23	AtIPT3 is a Key Determinant of Nitrate-Dependent Cytokinin Biosynthesis in Arabidopsis. Plant and Cell Physiology, 2004, 45, 1053-1062.	1.5	343
24	The<i>Arabidopsis</i>Nitrate Transporter NRT2.4 Plays a Double Role in Roots and Shoots of Nitrogen-Starved Plants Â. Plant Cell, 2012, 24, 245-258.	3.1	335
25	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
26	<i>Arabidopsis</i> ABCG14 is essential for the root-to-shoot translocation of cytokinin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7150-7155.	3.3	271
27	Abscisic Acid Interacts Antagonistically with Salicylic Acid Signaling Pathway in Riceâ€"<i>Magnaporthe grisea</i> Interaction. Molecular Plant-Microbe Interactions, 2010, 23, 791-798.	1.4	266
28	Metabolism and Longâ€distance Translocation of Cytokinins. Journal of Integrative Plant Biology, 2010, 52, 53-60.	4.1	262
29	The Arabidopsis nitrate transporter <scp>NRT</scp>2.5 plays a role in nitrate acquisition and remobilization in nitrogenâ€starved plants. Plant Journal, 2014, 80, 230-241.	2.8	260
30	Transcriptional repressor PRR5 directly regulates clock-output pathways. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17123-17128.	3.3	253
31	Transcript Profiling of an Arabidopsis PSEUDO RESPONSE REGULATOR Arrhythmic Triple Mutant Reveals a Role for the Circadian Clock in Cold Stress Response. Plant and Cell Physiology, 2009, 50, 447-462.	1.5	249
32	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
33	Rare allele of a previously unidentified histone H4 acetyltransferase enhances grain weight, yield, and plant biomass in rice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 76-81.	3.3	236
34	Acetate-mediated novel survival strategy against drought in plants. Nature Plants, 2017, 3, 17097.	4.7	232
35	Multiple routes communicating nitrogen availability from roots to shoots: a signal transduction pathway mediated by cytokinin. Journal of Experimental Botany, 2002, 53, 971-977.	2.4	231
36	Phloem-Transported Cytokinin Regulates Polar Auxin Transport and Maintains Vascular Pattern in the Root Meristem. Current Biology, 2011, 21, 927-932.	1.8	231

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37	Impact of clock-associated <i>Arabidopsis</i> pseudo-response regulators in metabolic coordination. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7251-7256.	3.3	228
38	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
39	Targeted Degradation of PSEUDO-RESPONSE REGULATOR5 by an SCF^{ZTL} Complex Regulates Clock Function and Photomorphogenesis in <i>Arabidopsis thaliana</i>. Plant Cell, 2007, 19, 2516-2530.	3.1	223
40	Ectopic Expression of KNOTTED1-Like Homeobox Protein Induces Expression of Cytokinin Biosynthesis Genes in Rice. Plant Physiology, 2006, 142, 54-62.	2.3	222
41	A responseâ€regulator homologue possibly involved in nitrogen signal transduction mediated by cytokinin in maize. Plant Journal, 1998, 14, 337-344.	2.8	216
42	Wounding Triggers Callus Formation via Dynamic Hormonal and Transcriptional Changes. Plant Physiology, 2017, 175, 1158-1174.	2.3	214
43	Type-B ARR Transcription Factors, ARR10 and ARR12, are Implicated in Cytokinin-Mediated Regulation of Protoxylem Differentiation in Roots of Arabidopsis thaliana. Plant and Cell Physiology, 2006, 48, 84-96.	1.5	210
44	Expression ofArabidopsisresponse regulator homologs is induced by cytokinins and nitrate. FEBS Letters, 1998, 429, 259-262.	1.3	207
45	Sterol Side Chain Reductase 2 Is a Key Enzyme in the Biosynthesis of Cholesterol, the Common Precursor of Toxic Steroidal Glycoalkaloids in Potato Â. Plant Cell, 2014, 26, 3763-3774.	3.1	206
46	A NIGT1-centred transcriptional cascade regulates nitrate signalling and incorporates phosphorus starvation signals in Arabidopsis. Nature Communications, 2018, 9, 1376.	5.8	202
47	Shoot-derived cytokinins systemically regulate root nodulation. Nature Communications, 2014, 5, 4983.	5.8	199
48	Interactions between nitrate and ammonium in their uptake, allocation, assimilation, and signaling in plants. Journal of Experimental Botany, 2017, 68, erw449.	2.4	191
49	A bHLH Complex Activates Vascular Cell Division via Cytokinin Action in Root Apical Meristem. Current Biology, 2014, 24, 2053-2058.	1.8	190
50	Molecular Characterization of Cytokinin-Responsive Histidine Kinases in Maize. Differential Ligand Preferences and Response to cis-Zeatin. Plant Physiology, 2004, 134, 1654-1661.	2.3	189
51	The GID1-Mediated Gibberellin Perception Mechanism Is Conserved in the Lycophyte <i>Selaginella moellendorffii</i> but Not in the Bryophyte <i>Physcomitrella patens</i>. Plant Cell, 2007, 19, 3058-3079.	3.1	188
52	Ethylene-gibberellin signaling underlies adaptation of rice to periodic flooding. Science, 2018, 361, 181-186.	6.0	188
53	Comprehensive Transcriptome Analysis of Phytohormone Biosynthesis and Signaling Genes in Microspore/Pollen and Tapetum of Rice. Plant and Cell Physiology, 2008, 49, 1429-1450.	1.5	187
54	Overexpression of a Type-A Response Regulator Alters Rice Morphology and Cytokinin Metabolism. Plant and Cell Physiology, 2007, 48, 523-539.	1.5	181

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55	Side-Chain Modification of Cytokinins Controls Shoot Growth in Arabidopsis. Developmental Cell, 2013, 27, 452-461.	3.1	180
56	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
57	Involvement of Auxin and Brassinosteroid in the Regulation of Petiole Elongation under the Shade Â. Plant Physiology, 2010, 153, 1608-1618.	2.3	172
58	Distinct Isoprenoid Origins of cis- and trans-Zeatin Biosyntheses in Arabidopsis. Journal of Biological Chemistry, 2004, 279, 14049-14054.	1.6	171
59	Cytokinin and Auxin Display Distinct but Interconnected Distribution and Signaling Profiles to Stimulate Cambial Activity. Current Biology, 2016, 26, 1990-1997.	1.8	170
60	Arabidopsis lonely guy (LOG) multiple mutants reveal a central role of the LOGâ€dependent pathway in cytokinin activation. Plant Journal, 2012, 69, 355-365.	2.8	167
61	A Putative Peroxisomal Polyamine Oxidase, AtPAO4, is Involved in Polyamine Catabolism in Arabidopsis thaliana. Plant and Cell Physiology, 2008, 49, 1272-1282.	1.5	163
62	Suppression of Î±â€amylase genes improves quality of rice grain ripened under high temperature. Plant Biotechnology Journal, 2012, 10, 1110-1117.	4.1	156
63	Combinatorial Microarray Analysis Revealing Arabidopsis Genes Implicated in Cytokinin Responses through the Hisâ†'Asp Phosphorelay Circuitry. Plant and Cell Physiology, 2005, 46, 339-355.	1.5	155
64	Cytokinins Act Synergistically with Salicylic Acid to Activate Defense Gene Expression in Rice. Molecular Plant-Microbe Interactions, 2013, 26, 287-296.	1.4	153
65	Salicylic Acid and Jasmonic Acid Pathways are Activated in Spatially Different Domains Around the Infection Site During Effector-Triggered Immunity in Arabidopsis thaliana. Plant and Cell Physiology, 2018, 59, 8-16.	1.5	153
66	Cytokinin Activity of cis-Zeatin and Phenotypic Alterations Induced by Overexpression of Putative cis-Zeatin-<i>O</i>-glucosyltransferase in Rice Â Â Â. Plant Physiology, 2012, 160, 319-331.	2.3	152
67	Differential Interaction of Maize Root Ferredoxin:NADP+ Oxidoreductase with Photosynthetic and Non-Photosynthetic Ferredoxin Isoproteins1. Plant Physiology, 2000, 123, 1037-1046.	2.3	150
68	Repression of Nitrogen Starvation Responses by Members of the Arabidopsis GARP-Type Transcription Factor NIGT1/HRS1 Subfamily. Plant Cell, 2018, 30, 925-945.	3.1	143
69	The highly buffered Arabidopsis immune signaling network conceals the functions of its components. PLoS Genetics, 2017, 13, e1006639.	1.5	138
70	Ligand-binding properties and subcellular localization of maize cytokinin receptors. Journal of Experimental Botany, 2011, 62, 5149-5159.	2.4	135
71	An efficient DNA- and selectable-marker-free genome-editing system using zygotes in rice. Nature Plants, 2019, 5, 363-368.	4.7	135
72	Atomic Structure of Plant Glutamine Synthetase. Journal of Biological Chemistry, 2006, 281, 29287-29296.	1.6	129

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73	<i>WUSCHEL-RELATED HOMEOBOX4</i>Is Involved in Meristem Maintenance and Is Negatively Regulated by the CLE Gene<i>FCP1</i>in Rice. Plant Cell, 2013, 25, 229-241.	3.1	129
74	Ethylene suppresses tomato (<i>Solanum lycopersicum</i>) fruit set through modification of gibberellin metabolism. Plant Journal, 2015, 83, 237-251.	2.8	128
75	Systemic transport of trans-zeatin and its precursor have differing roles in Arabidopsis shoots. Nature Plants, 2017, 3, 17112.	4.7	127
76	Studies of<i>aberrant phyllotaxy1</i>Mutants of Maize Indicate Complex Interactions between Auxin and Cytokinin Signaling in the Shoot Apical Meristem Â Â. Plant Physiology, 2009, 150, 205-216.	2.3	124
77	Arabidopsis Response Regulator, ARR22, Ectopic Expression of Which Results in Phenotypes Similar to the wol Cytokinin-Receptor Mutant. Plant and Cell Physiology, 2004, 45, 1063-1077.	1.5	121
78	Systematic approaches to using the FOX hunting system to identify useful rice genes. Plant Journal, 2009, 57, 883-894.	2.8	121
79	Deep rooting conferred by DEEPER ROOTING 1 enhances rice yield in paddy fields. Scientific Reports, 2014, 4, 5563.	1.6	121
80	Regulatory Roles of Cytokinins and Cytokinin Signaling in Response to Potassium Deficiency in Arabidopsis. PLoS ONE, 2012, 7, e47797.	1.1	120
81	Gibberellins Interfere with Symbiosis Signaling and Gene Expression and Alter Colonization by Arbuscular Mycorrhizal Fungi in <i>Lotus japonicus</i> Â. Plant Physiology, 2015, 167, 545-557.	2.3	120
82	Rice phytochrome-interacting factor-like protein OsPIL1 functions as a key regulator of internode elongation and induces a morphological response to drought stress. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15947-15952.	3.3	119
83	Molecular basis for cytokinin biosynthesis. Phytochemistry, 2009, 70, 444-449.	1.4	117
84	Mechanisms Underlying Robustness and Tunability in a Plant Immune Signaling Network. Cell Host and Microbe, 2014, 15, 84-94.	5.1	117
85	Functional Characterization and Expression Analysis of a Gene, OsENT2, Encoding an Equilibrative Nucleoside Transporter in Rice Suggest a Function in Cytokinin Transport. Plant Physiology, 2005, 138, 196-206.	2.3	114
86	Q&A: How do plants respond to cytokinins and what is their importance?. BMC Biology, 2015, 13, 102.	1.7	114
87	Gibberellin biosynthesis and signal transduction is essential for internode elongation in deepwater rice. Plant, Cell and Environment, 2014, 37, 2313-2324.	2.8	113
88	Agrobacterium tumefaciens increases cytokinin production in plastids by modifying the biosynthetic pathway in the host plant. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9972-9977.	3.3	112
89	Genome Sequence of Striga asiatica Provides Insight into the Evolution of Plant Parasitism. Current Biology, 2019, 29, 3041-3052.e4.	1.8	109
90	Destination-Selective Long-Distance Movement of Phloem Proteins. Plant Cell, 2005, 17, 1801-1814.	3.1	108

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91	Synthesis of Very-Long-Chain Fatty Acids in the Epidermis Controls Plant Organ Growth by Restricting Cell Proliferation. PLoS Biology, 2013, 11, e1001531.	2.6	107
92	A genome resource for green millet Setaria viridis enables discovery of agronomically valuable loci. Nature Biotechnology, 2020, 38, 1203-1210.	9.4	103
93	Nitrogen-Dependent Regulation of De Novo Cytokinin Biosynthesis in Rice: The Role of Glutamine Metabolism as an Additional Signal. Plant and Cell Physiology, 2013, 54, 1881-1893.	1.5	100
94	Reduction of Gibberellin by Low Temperature Disrupts Pollen Development in Rice Â Â. Plant Physiology, 2014, 164, 2011-2019.	2.3	99
95	UGT74D1 Catalyzes the Glucosylation of 2-Oxindole-3-Acetic Acid in the Auxin Metabolic Pathway in Arabidopsis. Plant and Cell Physiology, 2014, 55, 218-228.	1.5	99
96	N-Glucosyltransferase UGT76C2 is Involved in Cytokinin Homeostasis and Cytokinin Response in Arabidopsis thaliana. Plant and Cell Physiology, 2011, 52, 2200-2213.	1.5	98
97	Antagonistic regulation of the gibberellic acid response during stem growth in rice. Nature, 2020, 584, 109-114.	13.7	98
98	Regulation of the KNOX-GA Gene Module Induces Heterophyllic Alteration in North American Lake Cress. Plant Cell, 2014, 26, 4733-4748.	3.1	97
99	Ectopic expression of specific <scp>GA</scp>2 oxidase mutants promotes yield and stress tolerance in rice. Plant Biotechnology Journal, 2017, 15, 850-864.	4.1	97
100	Effector-Triggered Immunity Determines Host Genotype-Specific Incompatibility in Legumeâ€"<i>Rhizobium</i>Symbiosis. Plant and Cell Physiology, 2016, 57, 1791-1800.	1.5	94
101	Molecular Cloning and Differential Expression of the Maize Ferredoxin Gene Family. Plant Physiology, 1991, 96, 77-83.	2.3	88
102	Partial Characterization of the Signaling Pathway for the Nitrate-Dependent Expression of Genes for Nitrogen-Assimilatory Enzymes Using Detached Maize Leaves. Plant and Cell Physiology, 1997, 38, 837-843.	1.5	87
103	Metabolomic Screening Applied to Rice FOX Arabidopsis Lines Leads to the Identification of a Gene-Changing Nitrogen Metabolism. Molecular Plant, 2010, 3, 125-142.	3.9	87
104	RSS1 regulates the cell cycle and maintains meristematic activity under stress conditions in rice. Nature Communications, 2011, 2, 278.	5.8	87
105	Excessive ammonium assimilation by plastidic glutamine synthetase causes ammonium toxicity in Arabidopsis thaliana. Nature Communications, 2021, 12, 4944.	5.8	87
106	Cytokinin-Mediated Regulation of Reactive Oxygen Species Homeostasis Modulates Stomatal Immunity in Arabidopsis. Plant Cell, 2017, 29, 543-559.	3.1	86
107	Presence versus absence of CYP734A50 underlies the style-length dimorphism in primroses. ELife, 2016, 5, .	2.8	86
108	<scp>SUPERMAN</scp> regulates floral whorl boundaries through control of auxin biosynthesis. EMBO Journal, 2018, 37, .	3.5	85

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109	LIGHT-REGULATED WD1 and PSEUDO-RESPONSE REGULATOR9 Form a Positive Feedback Regulatory Loop in the <i>Arabidopsis</i> Circadian Clock Â. Plant Cell, 2011, 23, 486-498.	3.1	84
110	Cytokinin biosynthesis and perception. Physiologia Plantarum, 2006, 126, 528-538.	2.6	83
111	Constitutive activation of a CCâ€‘NBâ€‘LRR protein alters morphogenesis through the cytokinin pathway in Arabidopsis. Plant Journal, 2008, 55, 14-27.	2.8	82
112	Interspecies hormonal control of host root morphology by parasitic plants. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5283-5288.	3.3	82
113	Cytokinin biosynthesis and transport for systemic nitrogen signaling. Plant Journal, 2021, 105, 421-430.	2.8	80
114	Nitrate-specific and cytokinin-mediated nitrogen signaling pathways in plants. Journal of Plant Research, 2003, 116, 253-257.	1.2	79
115	AHK5 Histidine Kinase Regulates Root Elongation Through an ETR1-Dependent Abscisic Acid and Ethylene Signaling Pathway in Arabidopsis thaliana. Plant and Cell Physiology, 2006, 48, 375-380.	1.5	79
116	The Gibberellin perception system evolved to regulate a pre-existing GAMYB-mediated system during land plant evolution. Nature Communications, 2011, 2, 544.	5.8	79
117	OsGA20ox1, a candidate gene for a major QTL controlling seedling vigor in rice. Theoretical and Applied Genetics, 2012, 125, 647-657.	1.8	79
118	Gene expression and sensitivity in response to copper stress in rice leaves*. Journal of Experimental Botany, 2008, 59, 3465-3474.	2.4	77
119	Methylated Cytokinins from the Phytopathogen <i>Rhodococcus fascians</i> Mimic Plant Hormone Activity. Plant Physiology, 2015, 169, 1118-1126.	2.3	75
120	Arabidopsis SOI33/AtENT8 Gene Encodes a Putative Equilibrative Nucleoside Transporter That Is Involved in Cytokinin Transport In Planta. Journal of Integrative Plant Biology, 2005, 47, 588-603.	4.1	74
121	Phytochromes and cryptochromes regulate the differential growth of Arabidopsis hypocotyls in both a PGP19â€‘dependent and a PGP19â€‘independent manner. Plant Journal, 2008, 53, 516-529.	2.8	74
122	<i>WAVY LEAF1</i>, an Ortholog of Arabidopsis <i>HEN1</i>, Regulates Shoot Development by Maintaining MicroRNA and Trans-Acting Small Interfering RNA Accumulation in Rice Â Â. Plant Physiology, 2010, 154, 1335-1346.	2.3	73
123	The<i>COP1</i>Ortholog<i>PPS</i>Regulates the Juvenileâ€“Adult and Vegetativeâ€“Reproductive Phase Changes in Rice Â. Plant Cell, 2011, 23, 2143-2154.	3.1	73
124	The reduction in maize leaf growth under mild drought affects the transition between cell division and cell expansion and cannot be restored by elevated gibberellic acid levels. Plant Biotechnology Journal, 2018, 16, 615-627.	4.1	73
125	Chromatin-mediated feed-forward auxin biosynthesis in floral meristem determinacy. Nature Communications, 2018, 9, 5290.	5.8	73
126	Regulation of Sulfur-Responsive Gene Expression by Exogenously Applied Cytokinins in Arabidopsis thaliana. Plant and Cell Physiology, 2002, 43, 1493-1501.	1.5	72

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127	RiceFOX: A Database of Arabidopsis Mutant Lines Overexpressing Rice Full-Length cDNA that Contains a Wide Range of Trait Information to Facilitate Analysis of Gene Function. Plant and Cell Physiology, 2011, 52, 265-273.	1.5	72
128	Reverse genetics approach to characterize a function of NADH-glutamate synthase1 in rice plants. Amino Acids, 2010, 39, 1003-1012.	1.2	71
129	Genetic networks regulated by<i>ASYMMETRIC LEAVES1</i>(<i>AS1</i>) and<i>AS2</i>in leaf development in<i>Arabidopsis thaliana</i>:<i>KNOX</i>genes control five morphological events. Plant Journal, 2010, 61, 70-82.	2.8	70
130	<i>PLASTOCHRON3/GOLIATH</i> encodes a glutamate carboxypeptidase required for proper development in rice. Plant Journal, 2009, 58, 1028-1040.	2.8	69
131	Overexpression of Prunus DAM6 inhibits growth, represses bud break competency of dormant buds and delays bud outgrowth in apple plants. PLoS ONE, 2019, 14, e0214788.	1.1	69
132	A Nitrate-Inducible Ferredoxin in Maize Roots (Genomic Organization and Differential Expression of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	68
133	High CO2 Triggers Preferential Root Growth of Arabidopsis thaliana Via Two Distinct Systems Under Low pH and Low N Stresses. Plant and Cell Physiology, 2014, 55, 269-280.	1.5	68
134	Molecular Identification and Characterization of Cytosolic Isoforms of Glutamine Synthetase in Maize Roots. Journal of Biological Chemistry, 1996, 271, 29561-29568.	1.6	67
135	Genome-Wide Direct Target Analysis Reveals a Role for SHORT-ROOT in Root Vascular Patterning through Cytokinin Homeostasis Â Â. Plant Physiology, 2011, 157, 1221-1231.	2.3	67
136	A Link between Cytokinin andASL9(ASYMMETRIC LEAVES 2 LIKE 9) That Belongs to theAS2/LOB(LATERAL) Tj ETQq0 0 0 rgBT /Overlock 1 2007, 71, 1269-1278.	0.6	66
137	Sulphur limitation and early sulphur deficiency responses in poplar: significance of gene expression, metabolites, and plant hormones. Journal of Experimental Botany, 2012, 63, 1873-1893.	2.4	66
138	Auxin-associated initiation of vascular cell differentiation by LONESOME HIGHWAY. Development (Cambridge), 2013, 140, 765-769.	1.2	65
139	His-Asp phosphotransfer possibly involved in the nitrogen signal transduction mediated by cytokinin in maize: molecular cloning of cDNAs for two-component regulatory factors and demonstration of phosphotransfer activity in vitro. Plant Molecular Biology, 1999, 41, 563-573.	2.0	64
140	Time-Course Transcriptomics Analysis Reveals Key Responses of Submerged Deepwater Rice to Flooding. Plant Physiology, 2018, 176, 3081-3102.	2.3	64
141	Complementary DNA Cloning and Characterization of Ferredoxin Localized in Bundle-Sheath Cells of Maize Leaves1. Plant Physiology, 1999, 119, 481-488.	2.3	63
142	Molecular characterization of His-Asp phosphorelay signaling factors in maize leaves: implications of the signal divergence by cytokinin-inducible response regulators in the cytosol and the nuclei. Plant Molecular Biology, 2003, 52, 331-341.	2.0	63
143	A geneâ€stacking approach to overcome the tradeâ€off between drought stress tolerance and growth in Arabidopsis. Plant Journal, 2019, 97, 240-256.	2.8	63
144	The Maize<i>Viviparous8</i>Locus, Encoding a Putative ALTERED MERISTEM PROGRAM1-Like Peptidase, Regulates Abscisic Acid Accumulation and Coordinates Embryo and Endosperm Development Â. Plant Physiology, 2008, 146, 1193-1206.	2.3	61

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145	His-Asp phosphorelay signaling: a communication avenue between plants and their environment. Plant Molecular Biology, 2000, 42, 273-278.	2.0	60
146	Improvement of Arabidopsis Biomass and Cold, Drought and Salinity Stress Tolerance by Modified Circadian Clock-Associated PSEUDO-RESPONSE REGULATORs. Plant and Cell Physiology, 2016, 57, 1085-1097.	1.5	60
147	A Small Subfamily of<i>Arabidopsis RADIALIS-LIKE SANT/MYB</i>Genes: A Link to HOOKLESS1-Mediated Signal Transduction during Early Morphogenesis. Bioscience, Biotechnology and Biochemistry, 2008, 72, 2687-2696.	0.6	59
148	Topolins and Hydroxylated Thidiazuron Derivatives Are Substrates of Cytokinin O-Glucosyltransferase with Position Specificity Related to Receptor Recognition. Plant Physiology, 2005, 137, 1057-1066.	2.3	56
149	Overexpression of glucosyltransferase UGT85A1 influences trans-zeatin homeostasis and trans-zeatin responses likely through O-glucosylation. Planta, 2013, 237, 991-999.	1.6	56
150	Isolation and Characterization of a cDNA That Encodes Maize Glutamate Dehydrogenase. Plant and Cell Physiology, 1995, 36, 789-797.	1.5	55
151	Mesophyll conductance decreases in the wild type but not in an <scp>ABA</scp>â€deficient mutant (<scp><i>aba1</i></scp>) of <scp><i>N</i></scp><i>icotiana plumbaginifolia</i> under drought conditions. Plant, Cell and Environment, 2015, 38, 388-398.	2.8	55
152	Overexpression of a petunia zinc-finger gene alters cytokinin metabolism and plant forms. Plant Journal, 2004, 41, 512-523.	2.8	54
153	NLR locus-mediated trade-off between abiotic and biotic stress adaptation in Arabidopsis. Nature Plants, 2017, 3, 17072.	4.7	53
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