Taku Demura

List of Publications by Year
in descending order

158 papers	10,642 citations	47006 47 h-index	36028 97 g-index
179 all docs	179 docs citations	179 times ranked	9687 citing authors

#	Article	IF	Citations
1	Transcription switches for protoxylem and metaxylem vessel formation. Genes and Development, 2005, 19, 1855-1860.	5.9	1,006
2	Insights into Land Plant Evolution Garnered from the Marchantia polymorpha Genome. Cell, 2017, 171, 287-304.e15.	28.9	973
3	SND1, a NAC Domain Transcription Factor, Is a Key Regulator of Secondary Wall Synthesis in Fibers of Arabidopsis. Plant Cell, 2006, 18, 3158-3170.	6.6	655
4	VND-INTERACTING2, a NAC Domain Transcription Factor, Negatively Regulates Xylem Vessel Formation in Arabidopsis Â Â. Plant Cell, 2010, 22, 1249-1263.	6.6	358
5	VASCULARâ€RELATED NACâ€DOMAIN7 is involved in the differentiation of all types of xylem vessels in Arabidopsis roots and shoots. Plant Journal, 2008, 55, 652-664.	5.7	317
6	VASCULARâ€RELATED NACâ€DOMAINâ€ƒ7 directly regulates the expression of a broad range of genes for xylem vessel formation. Plant Journal, 2011, 66, 579-590.	5.7	315
7	Nonlinear partial differential equations and applications: Visualization by comprehensive microarray analysis of gene expression programs during transdifferentiation of mesophyll cells into xylem cells. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15794-15799.	7.1	270
8	ANXUR1 and 2, Sister Genes to FERONIA/SIRENE, Are Male Factors for Coordinated Fertilization. Current Biology, 2009, 19, 1327-1331.	3.9	254
9	VASCULAR-RELATED NAC-DOMAIN6 and VASCULAR-RELATED NAC-DOMAIN7 Effectively Induce Transdifferentiation into Xylem Vessel Elements under Control of an Induction System Â. Plant Physiology, 2010, 153, 906-914.	4.8	250
10	Contribution of NAC Transcription Factors to Plant Adaptation to Land. Science, 2014, 343, 1505-1508.	12.6	222
11	Regulation of plant biomass production. Current Opinion in Plant Biology, 2010, 13, 298-303.	7.1	206
12	Laccases Direct Lignification in the Discrete Secondary Cell Wall Domains of Protoxylem. Plant Physiology, 2014, 166, 798-807.	4.8	203
13	Overexpression of miR165 Affects Apical Meristem Formation, Organ Polarity Establishment and Vascular Development in Arabidopsis. Plant and Cell Physiology, 2007, 48, 391-404.	3.1	195
14	Transcriptional regulation in wood formation. Trends in Plant Science, 2007, 12, 64-70.	8.8	188
15	A NAC domain protein family contributing to the regulation of wood formation in poplar. Plant Journal, 2011, 67, 499-512.	5.7	182
16	Brassinosteroids Induce Entry into the Final Stage of Tracheary Element Differentiation in Cultured Zinnia Cells. Plant and Cell Physiology, 1997, 38, 980-983.	3.1	172
17	Involvement of Auxin and Brassinosteroid in the Regulation of Petiole Elongation under the Shade Â. Plant Physiology, 2010, 153, 1608-1618.	4.8	172
18	Overexpression of a novel small peptide ROTUNDIFOLIA4 decreases cell proliferation and alters leaf shape inArabidopsis thaliana. Plant Journal, 2004, 38, 699-713.	5.7	159

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19	Multiple Classes of Transcription Factors Regulate the Expression of VASCULAR-RELATED NAC-DOMAIN7, a Master Switch of Xylem Vessel Differentiation. Plant and Cell Physiology, 2015, 56, 242-254.	3.1	149
20	Brassinosteroid Levels Increase Drastically Prior to Morphogenesis of Tracheary Elements. Plant Physiology, 2001, 125, 556-563.	4.8	140
21	Local gene silencing in plants via synthetic ds<scp>RNA</scp> and carrier peptide. Plant Biotechnology Journal, 2014, 12, 1027-1034.	8.3	129
22	Transcriptional repression by <scp>MYB</scp> 3R proteins regulates plant organ growth. EMBO Journal, 2015, 34, 1992-2007.	7.8	128
23	The quest for transcriptional hubs of lignin biosynthesis: beyond the NAC-MYB-gene regulatory network model. Current Opinion in Biotechnology, 2019, 56, 82-87.	6.6	124
24	Mutations in MYB3R1 and MYB3R4 Cause Pleiotropic Developmental Defects and Preferential Down-Regulation of Multiple G2/M-Specific Genes in Arabidopsis Â Â. Plant Physiology, 2011, 157, 706-717.	4.8	120
25	Regulatory Mechanisms for Specification and Patterning of Plant Vascular Tissues. Annual Review of Cell and Developmental Biology, 2010, 26, 605-637.	9.4	109
26	Genome Sequence of Striga asiatica Provides Insight into the Evolution of Plant Parasitism. Current Biology, 2019, 29, 3041-3052.e4.	3.9	109
27	Chloroplastic <scp>ATP</scp> synthase builds up a proton motive force preventing production of reactive oxygen species in photosystem I. Plant Journal, 2017, 91, 306-324.	5.7	96
28	DcMYB1 Acts as a Transcriptional Activator of the Carrot Phenylalanine Ammonia-lyase Gene (DcPAL1) in Response to Elicitor Treatment, UV-B Irradiation and the Dilution Effect. Plant Molecular Biology, 2005, 59, 739-752.	3.9	90
29	ANGUSTIFOLIA3 Plays Roles in Adaxial/Abaxial Patterning and Growth in Leaf Morphogenesis. Plant and Cell Physiology, 2011, 52, 112-124.	3.1	79
30	Transcriptional regulation of secondary wall formation controlled by NAC domain proteins. Plant Biotechnology, 2010, 27, 237-242.	1.0	77
31	Class III Homeodomain Leucine-Zipper Proteins Regulate Xylem Cell Differentiation. Plant and Cell Physiology, 2005, 46, 1646-1656.	3.1	76
32	Transcription Factors VND1-VND3 Contribute to Cotyledon Xylem Vessel Formation. Plant Physiology, 2018, 176, 773-789.	4.8	76
33	Arabidopsis ROOT INITIATION DEFECTIVE1, a DEAH-Box RNA Helicase Involved in Pre-mRNA Splicing, Is Essential for Plant Development. Plant Cell, 2013, 25, 2056-2069.	6.6	75
34	Cobtorin target analysis reveals that pectin functions in the deposition of cellulose microfibrils in parallel with cortical microtubules. Plant Journal, 2010, 64, 657-667.	5.7	73
35	Loss of Inositol Phosphorylceramide Sphingolipid Mannosylation Induces Plant Immune Responses and Reduces Cellulose Content in Arabidopsis. Plant Cell, 2016, 28, 2991-3004.	6.6	71
36	Promotion of Transcript Accumulation of Novel Zinnia Immature Xylem-Specific HD-Zip III Homeobox Genes by Brassinosteroids. Plant and Cell Physiology, 2002, 43, 1146-1153.	3.1	70

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37	TERE; a novel cisâ€element responsible for a coordinated expression of genes related to programmed cell death and secondary wall formation during differentiation of tracheary elements. Plant Journal, 2007, 51, 955-965.	5.7	68
38	The CKH2/PKL Chromatin Remodeling Factor Negatively Regulates Cytokinin Responses in Arabidopsis Calli. Plant and Cell Physiology, 2011, 52, 618-628.	3.1	61
39	Overexpression of PtSOS2 Enhances Salt Tolerance in Transgenic Poplars. Plant Molecular Biology Reporter, 2014, 32, 185-197.	1.8	60
40	The Structural Integrity of Lignin Is Crucial for Resistance against Striga hermonthica Parasitism in Rice. Plant Physiology, 2019, 179, 1796-1809.	4.8	60
41	Isolation and Characterization of a Novel Peroxidase Gene ZPO-C Whose Expression and Function are Closely Associated with Lignification during Tracheary Element Differentiation. Plant and Cell Physiology, 2006, 47, 493-503.	3.1	57
42	A Transcriptional and Metabolic Framework for Secondary Wall Formation in Arabidopsis. Plant Physiology, 2016, 172, pp.01100.2016.	4.8	57
43	A Comprehensive Gene Expression Analysis Toward the Understanding of Growth and Differentiation of Tobacco BY-2 Cells. Plant and Cell Physiology, 2004, 45, 1280-1289.	3.1	54
44	Co-Regulation of Brassinosteroid Biosynthesis-Related Genes During Xylem Cell Differentiation. Plant and Cell Physiology, 2006, 48, 74-83.	3.1	54
45	Involvement of Phytosulfokine in the Attenuation of Stress Response during the Transdifferentiation of Zinnia Mesophyll Cells into Tracheary Elements Â Â. Plant Physiology, 2009, 150, 437-447.	4.8	53
46	Identifying New Components Participating in the Secondary Cell Wall Formation of Vessel Elements in Zinnia and Arabidopsis Â. Plant Cell, 2009, 21, 1155-1165.	6.6	53
47	Library screening of cell-penetrating peptide for BY-2 cells, leaves of Arabidopsis, tobacco, tomato, poplar, and rice callus. Scientific Reports, 2018, 8, 10966.	3.3	52
48	The advantages of cDNA microarray as an effective tool for identification of reproductive organ-specific genes in a model legume,Lotus japonicus. FEBS Letters, 2002, 514, 229-237.	2.8	49
49	TONSOKU is Expressed in S Phase of the Cell Cycle and its Defect Delays Cell Cycle Progression in Arabidopsis. Plant and Cell Physiology, 2005, 46, 736-742.	3.1	49
50	Fluorescence Cross-Correlation Analyses of the Molecular Interaction between an Aux/IAA Protein, MSG2/IAA19, and Proteinâ€“Protein Interaction Domains of Auxin Response Factors of Arabidopsis Expressed in HeLa Cells. Plant and Cell Physiology, 2006, 47, 1095-1101.	3.1	49
51	Heterologous Overexpression of Poplar SnRK2 Genes Enhanced Salt Stress Tolerance in Arabidopsis thaliana. Frontiers in Plant Science, 2016, 7, 612.	3.6	49
52	Identification and molecular characterization of novel anther-specific genes in Oryza sativa L. by using cDNA microarray. Genes and Genetic Systems, 2004, 79, 213-226.	0.7	48
53	Primary Metabolism during Biosynthesis of Secondary Wall Polymers of Protoxylem Vessel Elements. Plant Physiology, 2016, 172, 1612-1624.	4.8	48
54	Evolution of plant conducting cells: perspectives from key regulators of vascular cell differentiation. Journal of Experimental Botany, 2017, 68, 17-26.	4.8	48

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55	Protein S-Nitrosylation Regulates Xylem Vessel Cell Differentiation in Arabidopsis. Plant and Cell Physiology, 2018, 59, 17-29.	3.1	48
56	Inhibition of Proteasome Activity by the TED4 Protein inExtracellular Space: a Novel Mechanism for Protection of Living Cells fromInjury Caused by DyingCells. Plant and Cell Physiology, 2001, 42, 9-19.	3.1	47
57	Genome-Wide Analyses of Changes in Translation State Caused by Elevated Temperature in Oryza sativa. Plant and Cell Physiology, 2012, 53, 1481-1491.	3.1	46
58	Root-Knot and Cyst Nematodes Activate Procambium-Associated Genes in Arabidopsis Roots. Frontiers in Plant Science, 2017, 8, 1195.	3.6	46
59	A Computational and Experimental Approach Reveals that the 5â€²-Proximal Region of the 5â€²-UTR has a Cis-Regulatory Signature Responsible for Heat Stress-Regulated mRNA Translation in Arabidopsis. Plant and Cell Physiology, 2013, 54, 474-483.	3.1	44
60	Multidimensional High-Resolution Magic Angle Spinning and Solution-State NMR Characterization of 13C-labeled Plant Metabolites and Lignocellulose. Scientific Reports, 2015, 5, 11848.	3.3	42
61	Single-cell transcriptome analysis of Physcomitrella leaf cells during reprogramming using microcapillary manipulation. Nucleic Acids Research, 2019, 47, 4539-4553.	14.5	39
62	An isoform of Arabidopsis myosin XI interacts with small GTPases in its C-terminal tail region. Journal of Experimental Botany, 2008, 59, 3523-3531.	4.8	38
63	The ATM-Dependent DNA Damage Response Acts as an Upstream Trigger for Compensation in thefas1Mutation during Arabidopsis Leaf Development Â. Plant Physiology, 2013, 162, 831-841.	4.8	38
64	Responses of Populus trichocarpa galactinol synthase genes to abiotic stresses. Journal of Plant Research, 2014, 127, 347-358.	2.4	38
65	Programming of cell death during xylogenesis. Journal of Plant Research, 1998, 111, 253-256.	2.4	37
66	A Possible Role of Glutathione and Glutathione Disulfide in Tracheary Element Differentiation in the Cultured Mesophyll Cells of Zinnia elegans. Plant and Cell Physiology, 2001, 42, 673-676.	3.1	37
67	Development of Sink Capacity of the "Storage Root" in a Radish Cultivar with a High Ratio of "Storage Root" to Shoot. Plant and Cell Physiology, 1999, 40, 369-377.	3.1	36
68	MYB transcription factors orchestrating the developmental program of xylem vessels in Arabidopsis roots. Plant Biotechnology, 2010, 27, 267-272.	1.0	36
69	Patterned Deposition of Xylan and Lignin is Independent from that of the Secondary Wall Cellulose of Arabidopsis Xylem Vessels. Plant Cell, 2018, 30, 2663-2676.	6.6	34
70	Ecogenomics of cleistogamous and chasmogamous flowering: genomeâ€wide gene expression patterns from crossâ€species microarray analysis in Cardamine kokaiensis (Brassicaceae). Journal of Ecology, 2008, 96, 1086-1097.	4.0	32
71	Preferential Up-Regulation of G2/M Phase-Specific Genes by Overexpression of the Hyperactive Form of NtmybA2 Lacking Its Negative Regulation Domain in Tobacco BY-2 Cells Â. Plant Physiology, 2009, 149, 1945-1957.	4.8	32
72	Affinity Purification and Characterization of Functional Tubulin from Cell Suspension Cultures of Arabidopsis and Tobacco. Plant Physiology, 2016, 170, 1189-1205.	4.8	30

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73	OLIGOCELLULA1/HIGH EXPRESSION OF OSMOTICALLY RESPONSIVE GENES15 Promotes Cell Proliferation With HISTONE DEACETYLASE9 and POWERDRESS During Leaf Development in Arabidopsis thaliana. Frontiers in Plant Science, 2018, 9, 580.	3.6	30
74	Arabidopsis Group IIId ERF proteins positively regulate primary cell wall-type CESA genes. Journal of Plant Research, 2019, 132, 117-129.	2.4	30
75	Analysis of Early Processes in Wound-Induced Vascular Regeneration using TED3 and ZeHB3 as Molecular Markers. Plant and Cell Physiology, 2002, 43, 79-90.	3.1	28
76	The ATE Genes Are Responsible for Repression of Transdifferentiation into Xylem Cells in Arabidopsis. Plant Physiology, 2005, 137, 141-148.	4.8	28
77	Synthesis of poly- and oligo(hydroxyalkanoate)s by deep-sea bacteria, Colwellia spp., Moritella spp., and Shewanella spp. Polymer Journal, 2013, 45, 1094-1100.	2.7	28
78	DRP1A Is Responsible for Vascular Continuity Synergistically Working with VAN3 in Arabidopsis. Plant Physiology, 2005, 138, 819-826.	4.8	27
79	Comprehensive analysis of the regulatory roles of auxin in early transdifferentiation into xylem cells. Plant Molecular Biology, 2009, 70, 457-469.	3.9	27
80	Impact of abiotic stress on the regulation of cell wall biosynthesis in <i>Populus trichocarpa</i>. Plant Biotechnology, 2020, 37, 273-283.	1.0	27
81	Spatial and Temporal Tracing of Vessel Differentiation in Young Arabidopsis Seedlings by the Expression of an Immature Tracheary Element-specific Promoter. Plant and Cell Physiology, 2004, 45, 1529-1536.	3.1	26
82	FPX is a Novel Chemical Inducer that Promotes Callus Formation and Shoot Regeneration in Plants. Plant and Cell Physiology, 2018, 59, 1555-1567.	3.1	26
83	Long-term single-cell imaging and simulations of microtubules reveal principles behind wall patterning during proto-xylem development. Nature Communications, 2021, 12, 669.	12.8	26
84	Expression of the Zinnia TED3 promoter in developing tracheary elements of transgenic Arabidopsis. Plant Molecular Biology, 1998, 36, 917-927.	3.9	25
85	Change in the Redox State of Glutathione Regulates Differentiation of Tracheary Elements in Zinnia Cells and Arabidopsis Roots. Plant and Cell Physiology, 2005, 46, 1757-1765.	3.1	25
86	Gene Expression Profiling Using cDNA Microarray Analysis of the Sexual Reproduction Stage of the Unicellular Charophycean Alga Closterium peracerosum-strigosum-littorale Complex. Plant Physiology, 2006, 141, 271-279.	4.8	24
87	Particular Significance of SRD2-Dependent snRNA Accumulation in Polarized Pattern Generation during Lateral Root Development of Arabidopsis. Plant and Cell Physiology, 2010, 51, 2002-2012.	3.1	24
88	Changes in Polysome Association of mRNA Throughout Growth and Development in<i>Arabidopsis thaliana</i>. Plant and Cell Physiology, 2015, 56, pcv133.	3.1	23
89	Primary Phloem-Specific Expression of a Zinnia elegans Homeobox Gene. Plant and Cell Physiology, 2001, 42, 1210-1218.	3.1	22
90	Differential requirement for the function of SRD2, an snRNA transcription activator, in various stages of plant development. Plant Molecular Biology, 2008, 66, 303-314.	3.9	21

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91	Subtilase activity in intrusive cells mediates haustorium maturation in parasitic plants. Plant Physiology, 2021, 185, 1381-1394.	4.8	21
92	The CKH1/EER4 Gene Encoding a TAF12-Like Protein Negatively Regulates Cytokinin Sensitivity in Arabidopsis thaliana. Plant and Cell Physiology, 2011, 52, 629-637.	3.1	20
93	Involvement of VNS NAC-domain transcription factors in tracheid formation in Pinus taeda. Tree Physiology, 2020, 40, 704-716.	3.1	20
94	Editorial: An Emerging View of Plant Cell Walls as an Apoplastic Intelligent System. Plant and Cell Physiology, 2015, 56, 177-179.	3.1	18
95	Interspecific Signaling Between the Parasitic Plant and the Host Plants Regulate Xylem Vessel Cell Differentiation in Haustoria of Cuscuta campestris. Frontiers in Plant Science, 2020, 11, 193.	3.6	18
96	cDNA microarray analysis of gene expression changes during pollination, pollen-tube elongation, fertilization, and early embryogenesis in rice pistils. Sexual Plant Reproduction, 2005, 17, 269-275.	2.2	17
97	Transient transformation and RNA silencing in Zinnia tracheary element differentiating cell cultures. Plant Journal, 2008, 53, 864-875.	5.7	16
98	Arabidopsis thaliana cold-regulated 47 gene 5â€²-untranslated region enables stable high-level expression of transgenes. Journal of Bioscience and Bioengineering, 2018, 125, 124-130.	2.2	16
99	Modification of plant cell wall structure accompanied by enhancement of saccharification efficiency using a chemical, lasalocid sodium. Scientific Reports, 2016, 6, 34602.	3.3	15
100	High level expression of transgenes by use of 5^|^#8242;-untranslated region of the Arabidopsis thaliana arabinogalactan-protein 21 gene in dicotyledons. Plant Biotechnology, 2012, 29, 319-322.	1.0	14
101	Physical interaction between SnRK2 and PP2C is conserved in <i>Populus trichocarpa</i>. Plant Biotechnology, 2015, 32, 337-341.	1.0	14
102	Enhancement of abiotic stress tolerance in poplar by overexpression of key Arabidopsis stress response genes, AtSRK2C and AtGolS2. Molecular Breeding, 2017, 37, 1.	2.1	14
103	Plant-specific Dof transcription factors VASCULAR-RELATED DOF1 and VASCULAR-RELATED DOF2 regulate vascular cell differentiation and lignin biosynthesis in Arabidopsis. Plant Molecular Biology, 2020, 104, 263-281.	3.9	14
104	Identification of novel factors that increase enzymatic saccharification efficiency in Arabidopsis wood cells. Plant Biotechnology, 2017, 34, 203-206.	1.0	13
105	Tracheary element differentiation. Plant Biotechnology Reports, 2014, 8, 17-21.	1.5	12
106	Feature selection for RNA cleavage efficiency at specific sites using the LASSO regression model in Arabidopsis thaliana. BMC Bioinformatics, 2021, 22, 380.	2.6	12
107	ATL54, a RING-H2 domain protein selected by a gene co-expression network analysis, is associated with secondary cell wall formation in Arabidopsis. Plant Biotechnology, 2013, 30, 169-177.	1.0	12
108	Vascular cell expression patterns of Arabidopsis bZIP group I genes. Plant Biotechnology, 2006, 23, 497-501.	1.0	11

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109	A Short Period of Mannitol Stress but Not LiCl Stress Led to Global Translational Repression in Plants. Bioscience, Biotechnology and Biochemistry, 2010, 74, 2110-2112.	1.3	11
110	Secondary cell wall characterization in a BY-2 inductive system. Plant Cell, Tissue and Organ Culture, 2013, 115, 223-232.	2.3	11
111	Arabidopsis NAC domain proteins VND-INTERACTING1 and ANAC103 interact with multiple NAC domain proteins. Plant Biotechnology, 2015, 32, 119-123.	1.0	11
112	The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. Plant Physiology, 2017, 175, 1499-1509.	4.8	11
113	Proteomic analysis of xylem vessel cell differentiation in VND7-inducible tobacco BY-2 cells by two-dimensional gel electrophoresis. Plant Biotechnology, 2018, 35, 31-37.	1.0	11
114	Enzyme-Assisted Photoinjection of Megadalton Molecules into Intact Plant Cells Using Femtosecond Laser Amplifier. Scientific Reports, 2019, 9, 17530.	3.3	11
115	Hechtian Strands Transmit Cell Wall Integrity Signals in Plant Cells. Plants, 2020, 9, 604.	3.5	11
116	Development of Sink Capacity of the â€œStorage Rootâ€•in a Radish Variety with a Low Ratio of â€œStorage Rootâ€•to Shoot. Plant and Cell Physiology, 1999, 40, 1210-1218.	3.1	10
117	Possible contribution of TED6 and TED7, secondary cell wall-related membrane proteins, to evolution of tracheary element in angiosperm lineage. Plant Biotechnology, 2015, 32, 343-347.	1.0	10
118	Cell dedifferentiation and organogenesis in vitro require more snRNA than does seedling development in Arabidopsis thaliana. Journal of Plant Research, 2015, 128, 371-380.	2.4	10
119	Differential expression of poplar sucrose nonfermenting1-related protein kinase 2 genes in response to abiotic stress and abscisic acid. Journal of Plant Research, 2017, 130, 929-940.	2.4	10
120	ATL54, a ubiquitin ligase gene related to secondary cell wall formation, is transcriptionally regulated by MYB46. Plant Biotechnology, 2013, 30, 503-509.	1.0	10
121	Characterization of .ALPHA.-L-arabinofuranosidase related to the secondary cell walls formation in Arabidopsis thaliana. Plant Biotechnology, 2010, 27, 259-266.	1.0	10
122	Expression of photosynthesis-related genes and their regulation by light during somatic embryogenesis in Daucus carota. Planta, 2004, 219, 23-31.	3.2	9
123	Double-stranded RNA-binding protein DRB3 negatively regulates anthocyanin biosynthesis by modulating PAP1 expression in Arabidopsis thaliana. Journal of Plant Research, 2017, 130, 45-55.	2.4	9
124	Evidence that thiol-based redox state is critical for xylem vessel cell differentiation. Plant Signaling and Behavior, 2018, 13, e1428512.	2.4	9
125	Nonsense-Mediated mRNA Decay Deficiency Affects the Auxin Response and Shoot Regeneration in Arabidopsis. Plant and Cell Physiology, 2019, 60, 2000-2014.	3.1	9
126	Creating vessel elements in vitro: Towards a comprehensive understanding of the molecular basis of xylem vessel element differentiation. Plant Biotechnology, 2019, 36, 1-6.	1.0	9

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127	Arabidopsis FLYING SAUCER 2 Functions Redundantly with FLY1 to Establish Normal Seed Coat Mucilage. Plant and Cell Physiology, 2020, 61, 308-317.	3.1	9
128	Comprehensive analysis of mRNA internal cleavage sites in Arabidopsis thaliana. Journal of Bioscience and Bioengineering, 2018, 125, 723-728.	2.2	8
129	Affinityâ€based highâ€resolution analysis of DNA binding by VASCULARâ€RELATED NACâ€DOMAIN7 via fluorescence correlation spectroscopy. Plant Journal, 2019, 100, 298-313.	5.7	8
130	Different Plant Species Have Common Sequence Features Related to mRNA Degradation Intermediates. Plant and Cell Physiology, 2020, 61, 53-63.	3.1	8
131	Functional Analysis of Poplar Sombrero-Type NAC Transcription Factors Yields a Strategy to Modify Woody Cell Wall Properties. Plant and Cell Physiology, 2021, 62, 1963-1974.	3.1	8
132	Enhancement of secondary xylem cell proliferation by Arabidopsis cyclin D overexpression in tobacco plants. Plant Cell Reports, 2012, 31, 1573-1580.	5.6	7
133	Characterization of xylan in the early stages of secondary cell wall formation in tobacco bright yellow-2 cells. Carbohydrate Polymers, 2017, 176, 381-391.	10.2	7
134	The Progression of Xylem Vessel Cell Differentiation is Dependent on the Activity Level of VND7 in Arabidopsis thaliana. Plants, 2020, 9, 39.	3.5	7
135	Structure and Biomechanics during Xylem Vessel Transdifferentiation in Arabidopsis thaliana. Plants, 2020, 9, 1715.	3.5	7
136	Expression of peat moss VASCULAR RELATED NAC-DOMAIN homologs in Nicotiana benthamiana leaf cells induces ectopic secondary wall formation. Plant Molecular Biology, 2021, 106, 309-317.	3.9	7
137	Plant Bio Techniques Series(3). In situ Hybridization to Cellular RNA Using 35S-labeled cRNA Probes.. Plant Tissue Culture Letters, 1996, 13, 343-349.	0.1	7
138	Comparative metabolome analysis of seed kernels in phorbol ester-containing and phorbol ester-free accessions of <i>Jatropha curcas</i> L.. Plant Biotechnology, 2012, 29, 171-174.	1.0	6
139	Enhancement of Secondary Cell Wall Formation in Poplar Xylem Using a Self-Reinforced System of Secondary Cell Wall-Related Transcription Factors. Frontiers in Plant Science, 2022, 13, 819360.	3.6	6
140	Identification of 5â€²-untranslated regions that function as effective translational enhancers in monocotyledonous plant cells using a novel method of genome-wide analysis. Plant Biotechnology, 2018, 35, 365-373.	1.0	5
141	Photoinjection of fluorescent nanoparticles into intact plant cells using femtosecond laser amplifier. APL Photonics, 2020, 5, 066104.	5.7	5
142	Plant secondary cell wall proteome analysis with an inducible system for xylem vessel cell differentiation. Development Growth and Differentiation, 2022, 64, 5-15.	1.5	5
143	Development of a model system comprising Populus as a model tree and Colletotrichum gloeosporioides as a model pathogen for studying host^|^#8211;pathogen interactions. Plant Biotechnology, 2012, 29, 511-514.	1.0	4
144	Efficient transgene expression by alleviation of translational repression in plant cells. Journal of Bioscience and Bioengineering, 2014, 118, 434-440.	2.2	4

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145	Calcium signaling contributes to xylem vessel cell differentiation via post-transcriptional regulation of VND7 downstream events. Plant Biotechnology, 2021, 38, 331-337.	1.0	4
146	A mathematical model explores the contributions of bending and stretching forces to shoot gravitropism in Arabidopsis. Quantitative Plant Biology, 2020, 1, .	2.0	4
147	An Arabidopsis NAC domain transcriptional activator VND7 negatively regulates <i>VNI2</i> expression. Plant Biotechnology, 2021, 38, 415-420.	1.0	4
148	Vascular-related NAC-domain 7 directly regulates a broad range of genes for xylem vessel differentiation. BMC Proceedings, 2011, 5, .	1.6	3
149	Histone Deacetylation Controls Xylem Vessel Cell Differentiation via Transcriptional Regulation of a Transcription Repressor Complex OFP1/4â€“MYB75â€“KNAT7â€“BLH6. Frontiers in Plant Science, 2021, 12, 825810.	3.6	3
150	Changes in mRNA Degradation Efficiencies under Varying Conditions Are Regulated by Multiple Determinants in Arabidopsis thaliana. Plant and Cell Physiology, 2021, 62, 143-155.	3.1	2
151	Reduction in organâ€“organ friction is critical for corolla elongation in morning glory. Communications Biology, 2021, 4, 285.	4.4	2
152	Influence of osmotic condition on secondary cell wall formation of xylem vessel cells induced by the master transcription factor VND7. Plant Biotechnology, 2020, 37, 465-469.	1.0	2
153	Isolation of dominant Arabidopsis <i>seiv</i> mutants defective in VND7-induced xylem vessel cell differentiation. Plant Biotechnology, 2020, 37, 311-318.	1.0	1
154	Direct observation of nanoparticle diffusion in cytoplasm of single plant cells realized by photoinjection with femtosecond laser amplifier. Applied Physics Express, 2020, 13, 117002.	2.4	1
155	The Mechanics and Biology of Plant Cell Walls: Resilience and Sustainability for Our Future Society. Plant and Cell Physiology, 2021, 62, 1787-1790.	3.1	1
156	VND-INTERACTING2 effectively inhibits transcriptional activities of VASCULAR-RELATED NAC-DOMAIN7 through a conserved sequence. Plant Biotechnology, 2022, 39, 147-153.	1.0	1
157	Biosynthesis of Polyhydroxyalkanoate by a Marine Bacterium Vibrio sp. Strain Using Sugars, Plant Oil, and Unsaturated Fatty Acids as Sole Carbon Sources. ACS Symposium Series, 2013, , 211-221.	0.5	0
158	Evolution of Conducting Cells in Plants; a Perspective from Key Transcription Factors of Conducting Cell Differentiation: From Recent Studies on Master Regulatory Transcription Factors for the Differentiation of Tracheary Elements and Sieve Element. Kagaku To Seibutsu, 2018, 56, 353-363.	0.0	0