Ikuko Hara-Nishimura

List of Publications by Year
in descending order

198 papers	14,311 citations	12303 69 h-index	24915 109 g-index
205 all docs	205 docs citations	205 times ranked	10694 citing authors

#	Article	IF	Citations
1	A Plant Vacuolar Protease, VPE, Mediates Virus-Induced Hypersensitive Cell Death. Science, 2004, 305, 855-858.	6.0	579
2	Stomagen positively regulates stomatal density in Arabidopsis. Nature, 2010, 463, 241-244.	13.7	382
3	A rapid and nonâ€destructive screenable marker, FAST, for identifying transformed seeds of <i>Arabidopsis thaliana</i>. Plant Journal, 2010, 61, 519-528.	2.8	325
4	Transport of Storage Proteins to Protein Storage Vacuoles Is Mediated by Large Precursor-Accumulating Vesicles. Plant Cell, 1998, 10, 825-836.	3.1	307
5	Myosin-dependent endoplasmic reticulum motility and F-actin organization in plant cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6894-6899.	3.3	306
6	CRISPR/Cas9-Mediated Targeted Mutagenesis in the Liverwort Marchantia polymorpha L.. Plant and Cell Physiology, 2014, 55, 475-481.	1.5	262
7	Identification and Characterization of Nuclear Pore Complex Components in<i>Arabidopsis thaliana</i>Â Â. Plant Cell, 2011, 22, 4084-4097.	3.1	256
8	A novel membrane fusion-mediated plant immunity against bacterial pathogens. Genes and Development, 2009, 23, 2496-2506.	2.7	244
9	Vacuolar sorting receptor for seed storage proteins in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 16095-16100.	3.3	235
10	A unique vacuolar processing enzyme responsible for conversion of several proprotein precursors into the mature forms. FEBS Letters, 1991, 294, 89-93.	1.3	229
11	Why green fluorescent fusion proteins have not been observed in the vacuoles of higher plants. Plant Journal, 2003, 35, 545-555.	2.8	226
12	Vacuolar processing enzyme: an executor of plant cell death. Current Opinion in Plant Biology, 2005, 8, 404-408.	3.5	223
13	Enhancement of leaf photosynthetic capacity through increased stomatal density in Arabidopsis. New Phytologist, 2013, 198, 757-764.	3.5	223
14	Vacuolar processing enzyme is up-regulated in the lytic vacuoles of vegetative tissues during senescence and under various stressed conditions. Plant Journal, 1999, 19, 43-53.	2.8	215
15	A Proteinase-Storing Body that Prepares for Cell Death or Stresses in the Epidermal Cells of Arabidopsis. Plant and Cell Physiology, 2001, 42, 894-899.	1.5	208
16	An Asparaginyl Endopeptidase Mediates in Vivo Protein Backbone Cyclization. Journal of Biological Chemistry, 2007, 282, 29721-29728.	1.6	207
17	A Vacuolar Processing Enzyme, ÎVPE, Is Involved in Seed Coat Formation at the Early Stage of Seed Development. Plant Cell, 2005, 17, 876-887.	3.1	199
18	Vacuolar Processing Enzyme Is Essential for Mycotoxin-induced Cell Death in Arabidopsis thaliana. Journal of Biological Chemistry, 2005, 280, 32914-32920.	1.6	196

#	Article	IF	Citations
19	Myosin XI-i Links the Nuclear Membrane to the Cytoskeleton to Control Nuclear Movement and Shape in Arabidopsis. Current Biology, 2013, 23, 1776-1781.	1.8	193
20	Vacuolar Processing Enzymes Are Essential for Proper Processing of Seed Storage Proteins in Arabidopsis thaliana. Journal of Biological Chemistry, 2003, 278, 32292-32299.	1.6	189
21	A novel role for oleosins in freezing tolerance of oilseeds in <i>Arabidopsis thaliana</i>. Plant Journal, 2008, 55, 798-809.	2.8	184
22	Vacuolar processing enzyme in plant programmed cell death. Frontiers in Plant Science, 2015, 6, 234.	1.7	182
23	Biosynthetic Processing of Cathepsins and Lysosomal Degradation Are Abolished in Asparaginyl Endopeptidase-deficient Mice. Journal of Biological Chemistry, 2003, 278, 33194-33199.	1.6	181
24	A novel ER-derived compartment, the ER body, selectively accumulates a Î²-glucosidase with an ER-retention signal inArabidopsis. Plant Journal, 2003, 33, 493-502.	2.8	172
25	A Slow Maturation of a Cysteine Protease with a Granulin Domain in the Vacuoles of Senescing Arabidopsis Leaves. Plant Physiology, 2001, 127, 1626-1634.	2.3	158
26	An Endoplasmic Reticulum-Derived Structure That Is Induced under Stress Conditions in Arabidopsis. Plant Physiology, 2002, 130, 1807-1814.	2.3	147
27	Characterization of Organelles in the Vacuolar-Sorting Pathway by Visualization with GFP in Tobacco BY-2 Cells. Plant and Cell Physiology, 2000, 41, 993-1001.	1.5	138
28	AtVPS29, a Putative Component of a Retromer Complex, is Required for the Efficient Sorting of Seed Storage Proteins. Plant and Cell Physiology, 2006, 47, 1187-1194.	1.5	135
29	KATAMARI1/MURUS3 Is a Novel Golgi Membrane Protein That Is Required for Endomembrane Organization in Arabidopsis. Plant Cell, 2005, 17, 1764-1776.	3.1	134
30	Dynamic Aspects of Ion Accumulation by Vesicle Traffic Under Salt Stress in Arabidopsis. Plant and Cell Physiology, 2009, 50, 2023-2033.	1.5	130
31	PYK10 myrosinase reveals a functional coordination between endoplasmic reticulum bodies and glucosinolates in <i>Arabidopsis thaliana</i>. Plant Journal, 2017, 89, 204-220.	2.8	128
32	Vacuolar Processing Enzyme Responsible for Maturation of Seed Proteins. Journal of Plant Physiology, 1995, 145, 632-640.	1.6	125
33	Identification and Dynamics of <i>Arabidopsis</i> Adaptor Protein-2 Complex and Its Involvement in Floral Organ Development. Plant Cell, 2013, 25, 2958-2969.	3.1	121
34	Neuroprotective Actions of PIKE-L by Inhibition of SET Proteolytic Degradation by Asparagine Endopeptidase. Molecular Cell, 2008, 29, 665-678.	4.5	116
35	Activation of Arabidopsis Vacuolar Processing Enzyme by Self-Catalytic Removal of an Auto-Inhibitory Domain of the C-Terminal Propeptide. Plant and Cell Physiology, 2002, 43, 143-151.	1.5	112
36	Pectin RG-I rhamnosyltransferases represent a novel plant-specific glycosyltransferase family. Nature Plants, 2018, 4, 669-676.	4.7	111

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37	The AtVAM3 Encodes a Syntaxin-related Molecule Implicated in the Vacuolar Assembly in Arabidopsis thaliana. Journal of Biological Chemistry, 1997, 272, 24530-24535.	1.6	109
38	Polar Localization of the NIP5;1 Boric Acid Channel Is Maintained by Endocytosis and Facilitates Boron Transport in Arabidopsis Roots. Plant Cell, 2017, 29, 824-842.	3.1	107
39	Arabidopsis VPS35, a Retromer Component, is Required for Vacuolar Protein Sorting and Involved in Plant Growth and Leaf Senescence. Plant and Cell Physiology, 2008, 49, 142-156.	1.5	105
40	Ectopic Expression of an Esterase, Which is a Candidate for the Unidentified Plant Cutinase, Causes Cuticular Defects in Arabidopsis thaliana. Plant and Cell Physiology, 2010, 51, 123-131.	1.5	105
41	Proglobulin Processing Enzyme in Vacuoles Isolated from Developing Pumpkin Cotyledons. Plant Physiology, 1987, 85, 440-445.	2.3	104
42	An Aspartic Endopeptidase is Involved in the Breakdown of Propeptides of Storage Proteins in Protein-Storage Vacuoles of Plants. FEBS Journal, 1997, 246, 133-141.	0.2	104
43	Oil-Body-Membrane Proteins and Their Physiological Functions in Plants. Biological and Pharmaceutical Bulletin, 2010, 33, 360-363.	0.6	102
44	Vacuolar processing enzyme is self-catalytically activated by sequential removal of the C-terminal and N-terminal propeptides. FEBS Letters, 1999, 447, 213-216.	1.3	101
45	Behavior of Vacuoles during Microspore and Pollen Development in Arabidopsis thaliana. Plant and Cell Physiology, 2003, 44, 1192-1201.	1.5	99
46	NAI1 Gene Encodes a Basic-Helix-Loop-Helixâ€“Type Putative Transcription Factor That Regulates the Formation of an Endoplasmic Reticulumâ€“Derived Structure, the ER Body. Plant Cell, 2004, 16, 1536-1549.	3.1	99
47	Multiple Functional Proteins Are Produced by Cleaving Asn-Gln Bonds of a Single Precursor by Vacuolar Processing Enzyme. Journal of Biological Chemistry, 1999, 274, 2563-2570.	1.6	98
48	Asparagine Endopeptidase Is Not Essential for Class II MHC Antigen Presentation but Is Required for Processing of Cathepsin L in Mice. Journal of Immunology, 2005, 174, 7066-7074.	0.4	98
49	Leaf Oil Body Functions as a Subcellular Factory for the Production of a Phytoalexin in Arabidopsis. Plant Physiology, 2014, 164, 105-118.	2.3	98
50	Plant Vacuoles. Annual Review of Plant Biology, 2018, 69, 123-145.	8.6	94
51	ER bodies in plants of the Brassicales order: biogenesis and association with innate immunity. Frontiers in Plant Science, 2014, 5, 73.	1.7	93
52	The ER Body, a Novel Endoplasmic Reticulum-Derived Structure in Arabidopsis. Plant and Cell Physiology, 2003, 44, 661-666.	1.5	92
53	GNOM-LIKE1/ERMO1 and SEC24a/ERMO2 Are Required for Maintenance of Endoplasmic Reticulum Morphology in<i>Arabidopsis thaliana</i>Â. Plant Cell, 2009, 21, 3672-3685.	3.1	92
54	AtVAM3 is Required for Normal Specification of Idioblasts, Myrosin Cells. Plant and Cell Physiology, 2006, 47, 164-175.	1.5	91

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55	Vacuolar Processing Enzyme of Soybean That Converts Proproteins to the Corresponding Mature Forms. Plant and Cell Physiology, 1994, 35, 713-718.	1.5	87
56	Arabidopsis Vacuolar Sorting Mutants (green fluorescent seed) Can Be Identified Efficiently by Secretion of Vacuole-Targeted Green Fluorescent Protein in Their Seeds. Plant Cell, 2007, 19, 597-609.	3.1	87
57	A VPE family supporting various vacuolar functions in plants. Physiologia Plantarum, 2005, 123, 369-375.	2.6	86
58	Antagonistic Jacalin-Related Lectins Regulate the Size of ER Body-Type Î²-Glucosidase Complexes in Arabidopsis thaliana. Plant and Cell Physiology, 2008, 49, 969-980.	1.5	85
59	Spatiotemporal Secretion of PEROXIDASE36 Is Required for Seed Coat Mucilage Extrusion in <i>Arabidopsis</i> Â. Plant Cell, 2013, 25, 1355-1367.	3.1	85
60	Arabidopsis KAM2/GRV2 Is Required for Proper Endosome Formation and Functions in Vacuolar Sorting and Determination of the Embryo Growth Axis. Plant Cell, 2007, 19, 320-332.	3.1	83
61	The Novel Nuclear Envelope Protein KAKU4 Modulates Nuclear Morphology in<i>Arabidopsis</i>Â. Plant Cell, 2014, 26, 2143-2155.	3.1	81
62	MAIGO2 Is Involved in Exit of Seed Storage Proteins from the Endoplasmic Reticulum in Arabidopsis thaliana. Plant Cell, 2007, 18, 3535-3547.	3.1	79
63	The AP-1 Âµ Adaptin is Required for KNOLLE Localization at the Cell Plate to Mediate Cytokinesis in Arabidopsis. Plant and Cell Physiology, 2013, 54, 838-847.	1.5	79
64	Vacuolar processing enzymes in protein-storage vacuoles and lytic vacuoles. Journal of Plant Physiology, 1998, 152, 668-674.	1.6	78
65	The molecular architecture of the plant nuclear pore complex. Journal of Experimental Botany, 2013, 64, 823-832.	2.4	78
66	Unique Defense Strategy by the Endoplasmic Reticulum Body in Plants. Plant and Cell Physiology, 2011, 52, 2039-2049.	1.5	76
67	A Vacuolar Sorting Receptor PV72 on the Membrane of Vesicles that Accumulate Precursors of Seed Storage Proteins (PAC Vesicles). Plant and Cell Physiology, 2002, 43, 1086-1095.	1.5	74
68	Vacuolar Processing Enzyme plays an Essential Role in the Crystalline Structure of Glutelin in Rice Seed. Plant and Cell Physiology, 2010, 51, 38-46.	1.5	74
69	Membrane Dynamics and Multiple Functions of Oil Bodies in Seeds and Leaves. Plant Physiology, 2018, 176, 199-207.	2.3	73
70	Activation of an ER-body-localized Î²-Glucosidase via a Cytosolic Binding Partner in Damaged Tissues of Arabidopsis thaliana. Plant and Cell Physiology, 2005, 46, 1140-1148.	1.5	72
71	The Adaptor Complex AP-4 Regulates Vacuolar Protein Sorting at the trans-Golgi Network by Interacting with VACUOLAR SORTING RECEPTOR1. Plant Physiology, 2016, 170, 211-219.	2.3	72
72	Higher Stomatal Density Improves Photosynthetic Induction and Biomass Production in Arabidopsis Under Fluctuating Light. Frontiers in Plant Science, 2020, 11, 589603.	1.7	69

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73	Constitutive and Inducible ER Bodies of Arabidopsis thaliana Accumulate Distinct Î²-Glucosidases. Plant and Cell Physiology, 2009, 50, 480-488.	1.5	68
74	Retromer Contributes to Immunity-Associated Cell Death in Arabidopsis. Plant Cell, 2015, 27, 463-479.	3.1	67
75	Homologues of a vacuolar processing enzyme that are expressed in different organs in Arabidopsis thaliana. Plant Molecular Biology, 1995, 29, 81-89.	2.0	65
76	Calcium-mediated Association of a Putative Vacuolar Sorting Receptor PV72 with a Propeptide of 2S Albumin. Journal of Biological Chemistry, 2002, 277, 8708-8715.	1.6	64
77	An ER-Localized Form of PV72, a Seed-Specific Vacuolar Sorting Receptor, Interferes the Transport of an NPIR-Containing Proteinase in Arabidopsis Leaves. Plant and Cell Physiology, 2004, 45, 9-17.	1.5	64
78	Positive and negative peptide signals control stomatal density. Cellular and Molecular Life Sciences, 2011, 68, 2081-2088.	2.4	63
79	Involvement of the nuclear pore complex in morphology of the plant nucleus. Nucleus, 2011, 2, 168-172.	0.6	63
80	<scp>GFS</scp>9/<scp>TT</scp>9 contributes to intracellular membrane trafficking and flavonoid accumulation in <i><scp>A</scp>rabidopsis thaliana</i>. Plant Journal, 2014, 80, 410-423.	2.8	63
81	NAI2 Is an Endoplasmic Reticulum Body Component That Enables ER Body Formation in <i>Arabidopsis thaliana</i> Â Â. Plant Cell, 2008, 20, 2529-2540.	3.1	62
82	Diversity and Formation of Endoplasmic Reticulum-Derived Compartments in Plants. Are These Compartments Specific to Plant Cells?. Plant Physiology, 2004, 136, 3435-3439.	2.3	61
83	Regulation of organ straightening and plant posture by an actinâ€“myosin XI cytoskeleton. Nature Plants, 2015, 1, 15031.	4.7	60
84	An isoform of myosin XI is responsible for the translocation of endoplasmic reticulum in tobacco cultured BY-2 cells. Journal of Experimental Botany, 2009, 60, 197-212.	2.4	59
85	Polar Localization of the Borate Exporter BOR1 Requires AP2-Dependent Endocytosis. Plant Physiology, 2019, 179, 1569-1580.	2.3	58
86	Leaf Endoplasmic Reticulum Bodies Identified in Arabidopsis Rosette Leaves Are Involved in Defense against Herbivory. Plant Physiology, 2019, 179, 1515-1524.	2.3	58
87	Biosynthesis and Intracellular Transport of 11S Globulin in Developing Pumpkin Cotyledons. Plant Physiology, 1985, 77, 747-752.	2.3	56
88	C-Terminal KDEL Sequence of A KDEL-Tailed Cysteine Proteinase (Sulfhydryl-Endopeptidase) Is Involved in Formation of KDEL Vesicle and in Efficient Vacuolar Transport of Sulfhydryl-Endopeptidase. Plant Physiology, 2003, 132, 1892-1900.	2.3	56
89	Microtubules Contribute to Tubule Elongation and Anchoring of Endoplasmic Reticulum, Resulting in High Network Complexity in Arabidopsis Â Â. Plant Physiology, 2014, 166, 1869-1876.	2.3	55
90	Molecular characterization of proteins in protein-body membrane that disappear most rapidly during transformation of protein bodies into vacuoles. Plant Journal, 1995, 7, 235-243.	2.8	54

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91	Specialized Vacuoles of Myrosin Cells: Chemical Defense Strategy in Brassicales Plants. Plant and Cell Physiology, 2018, 59, 1309-1316.	1.5	54
92	Pumpkin malate synthase. Cloning and sequencing of the cDNA and Northern blot analysis. FEBS Journal, 1991, 197, 331-336.	0.2	53
93	A wound-inducible organelle derived from endoplasmic reticulum: a plant strategy against environmental stresses?. Current Opinion in Plant Biology, 2003, 6, 583-588.	3.5	53
94	Endoplasmic reticulum-resident proteins are constitutively transported to vacuoles for degradation. Plant Journal, 2004, 39, 393-402.	2.8	53
95	MAIGO5 Functions in Protein Export from Golgi-Associated Endoplasmic Reticulum Exit Sites in<i>Arabidopsis</i>Â. Plant Cell, 2013, 25, 4658-4675.	3.1	53
96	Endosomal proteases facilitate the fusion of endosomes with vacuoles at the final step of the endocytotic pathway. Plant Journal, 2005, 41, 888-898.	2.8	52
97	Vacuolar SNAREs Function in the Formation of the Leaf Vascular Network by Regulating Auxin Distribution. Plant and Cell Physiology, 2009, 50, 1319-1328.	1.5	52
98	Expression and activation of the vacuolar processing enzyme in Saccharomyces cerevisiae. Plant Journal, 1997, 12, 819-829.	2.8	51
99	Identification of Two Novel Endoplasmic Reticulum Body-Specific Integral Membrane Proteins Â Â. Plant Physiology, 2012, 161, 108-120.	2.3	51
100	Vacuolar processing enzymes in the plant life cycle. New Phytologist, 2020, 226, 21-31.	3.5	51
101	Two vacuole-mediated defense strategies in plants. Plant Signaling and Behavior, 2010, 5, 1568-1570.	1.2	50
102	Functional insights of nucleocytoplasmic transport in plants. Frontiers in Plant Science, 2014, 5, 118.	1.7	50
103	FAMA Is an Essential Component for the Differentiation of Two Distinct Cell Types, Myrosin Cells and Guard Cells, in<i>Arabidopsis</i>Â. Plant Cell, 2014, 26, 4039-4052.	3.1	50
104	Chloroplast Cpn20 forms a tetrameric structure inArabidopsis thaliana. Plant Journal, 1999, 17, 467-477.	2.8	46
105	Arabidopsis Qa-SNARE SYP2 proteins localized to different subcellular regions function redundantly in vacuolar protein sorting and plant development. Plant Journal, 2010, 64, 924-935.	2.8	46
106	Myosin XI-Dependent Formation of Tubular Structures from Endoplasmic Reticulum Isolated from Tobacco Cultured BY-2 Cells Â Â. Plant Physiology, 2011, 156, 129-143.	2.3	46
107	Functions of plant-specific myosin XI: from intracellular motility to plant postures. Current Opinion in Plant Biology, 2015, 28, 30-38.	3.5	44
108	Identification of an Allele of VAM3/SYP22 that Confers a Semi-dwarf Phenotype in Arabidopsis thaliana. Plant and Cell Physiology, 2005, 46, 1358-1365.	1.5	41

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109	Trafficking of Vacuolar Proteins: The Crucial Role of <i>Arabidopsis</i> Vacuolar Protein Sorting 29 in Recycling Vacuolar Sorting Receptor. Plant Cell, 2013, 24, 5058-5073.	3.1	41
110	Molecular Characterization of an Arabidopsis Acyl-Coenzyme A Synthetase Localized on Glyoxysomal Membranes. Plant Physiology, 2002, 130, 2019-2026.	2.3	40
111	Leaf oil bodies are subcellular factories producing antifungal oxylipins. Current Opinion in Plant Biology, 2015, 25, 145-150.	3.5	40
112	Suborganellar Localization of Proteinase Catalyzing the Limited Hydrolysis of Pumpkin Globulin. Plant Physiology, 1982, 70, 699-703.	2.3	39
113	Cloning and nucleotide sequence of cDNA for retinochrome, retinal photoisomerase from the squid retina. FEBS Letters, 1990, 271, 106-110.	1.3	39
114	Cloning and nucleotide sequence of cDNA for rhodopsin of the squid Todarodes pacificus. FEBS Letters, 1993, 317, 5-11.	1.3	37
115	The cystatin M/Eâ€cathepsin L balance is essential for tissue homeostasis in epidermis, hair follicles, and cornea. FASEB Journal, 2010, 24, 3744-3755.	0.2	37
116	Seed storage albumins: biosynthesis, trafficking and structures. Functional Plant Biology, 2014, 41, 671.	1.1	37
117	Subnuclear gene positioning through lamina association affects copper tolerance. Nature Communications, 2020, 11, 5914.	5.8	37
118	Characterization of an Arabidopsis cDNA Encoding a Subunit of Serine Palmitoyltransferase, the Initial Enzyme in Sphingolipid Biosynthesis. Plant and Cell Physiology, 2001, 42, 1274-1281.	1.5	36
119	The slow wound-response of ?VPE is regulated by endogenous salicylic acid in Arabidopsis. Planta, 2004, 218, 599-605.	1.6	36
120	Molecular Characterization of a Vacuolar Processing Enzyme Related to a Putative Cysteine Proteinase of Schistosoma mansoni. Plant Cell, 1993, 5, 1651.	3.1	34
121	<scp>MAG</scp>2 and three <scp>MAG</scp>2â€<scp>INTERACTING PROTEIN</scp>s form an <scp>ER</scp>â€localized complex to facilitate storage protein transport in <i>Arabidopsis thaliana</i>. Plant Journal, 2013, 76, 781-791.	2.8	34
122	MAG4/Atp115 is a Golgi-Localized Tethering Factor that Mediates Efficient Anterograde Transport in Arabidopsis. Plant and Cell Physiology, 2010, 51, 1777-1787.	1.5	33
123	CONTINUOUS VASCULAR RING (COV1) is a trans-Golgi Network-Localized Membrane Protein Required for Golgi Morphology and Vacuolar Protein Sorting. Plant and Cell Physiology, 2014, 55, 764-772.	1.5	32
124	A Novel Membrane Protein That Is Transported to Protein Storage Vacuoles via Precursor-Accumulating Vesicles. Plant Cell, 2001, 13, 2361-2372.	3.1	31
125	Phosphorylation of the C Terminus of RHD3 Has a Critical Role in Homotypic ER Membrane Fusion in Arabidopsis. Plant Physiology, 2016, 170, 867-880.	2.3	31
126	Nucleotide sequence of cloned cDNA coding for pumpkin 11-S globulin beta subunit. FEBS Journal, 1988, 172, 627-632.	0.2	30

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127	Quantitative Analysis of ER Body Morphology in an Arabidopsis Mutant. Plant and Cell Physiology, 2009, 50, 2015-2022.	1.5	29
128	Immunological analysis of aconitase in pumpkin cotyledons: the absence of aconitase in glyoxysomes. Physiologia Plantarum, 1994, 90, 757-762.	2.6	28
129	Recent advances in understanding plant nuclear envelope proteins involved in nuclear morphology. Journal of Experimental Botany, 2015, 66, 1641-1647.	2.4	28
130	HSP90 Stabilizes Auxin-Responsive Phenotypes by Masking a Mutation in the Auxin Receptor TIR1. Plant and Cell Physiology, 2016, 57, 2245-2254.	1.5	28
131	Comprehensive nuclear proteome of Arabidopsis obtained by sequential extraction. Nucleus, 2019, 10, 81-92.	0.6	28
132	Nucleoporin 75 Is Involved in the Ethylene-Mediated Production of Phytoalexin for the Resistance of <i>Nicotiana benthamiana</i> to <i>Phytophthora infestans</i>. Molecular Plant-Microbe Interactions, 2014, 27, 1318-1330.	1.4	27
133	BEACH-Domain Proteins Act Together in a Cascade to Mediate Vacuolar Protein Trafficking and Disease Resistance in Arabidopsis. Molecular Plant, 2015, 8, 389-398.	3.9	27
134	Oil body-mediated defense against fungi: From tissues to ecology. Plant Signaling and Behavior, 2015, 10, e989036.	1.2	27
135	Stress granule formation is induced by a threshold temperature rather than a temperature difference in Arabidopsis. Journal of Cell Science, 2018, 131, .	1.2	27
136	Synaptotagmin-Associated Endoplasmic Reticulum-Plasma Membrane Contact Sites Are Localized to Immobile ER Tubules. Plant Physiology, 2018, 178, 641-653.	2.3	27
137	Sucrose Starvation Induces Microautophagy in Plant Root Cells. Frontiers in Plant Science, 2019, 10, 1604.	1.7	27
138	HIGH STEROL ESTER 1 is a key factor in plant sterol homeostasis. Nature Plants, 2019, 5, 1154-1166.	4.7	26
139	Endoplasmic reticulum-derived bodies enable a single-cell chemical defense in Brassicaceae plants. Communications Biology, 2020, 3, 21.	2.0	26
140	Involvement of Adapter Protein Complex 4 in Hypersensitive Cell Death Induced by Avirulent Bacteria. Plant Physiology, 2018, 176, 1824-1834.	2.3	25
141	FAMA: A Molecular Link between Stomata and Myrosin Cells. Trends in Plant Science, 2016, 21, 861-871.	4.3	24
142	The Î¼ Subunit of <i>Arabidopsis</i> Adaptor Protein-2 Is Involved in Effector-Triggered Immunity Mediated by Membrane-Localized Resistance Proteins. Molecular Plant-Microbe Interactions, 2016, 29, 345-351.	1.4	24
143	The ER body, a new organelle in<i>Arabidopsis thaliana</i>, requires NAI2 for its formation and accumulates specific ÃŸ-glucosidases. Plant Signaling and Behavior, 2009, 4, 849-852.	1.2	23
144	ERMO3/MVP1/GOLD36 Is Involved in a Cell Type-Specific Mechanism for Maintaining ER Morphology in Arabidopsis thaliana. PLoS ONE, 2012, 7, e49103.	1.1	22

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145	Plant Nuclei Move to Escape Ultraviolet-Induced DNA Damage and Cell Death. Plant Physiology, 2016, 170, 678-685.	2.3	22
146	Effects of stomatal density and leaf water content on the ¹⁸<scp>O</scp> enrichment of leaf water. New Phytologist, 2015, 206, 141-151.	3.5	21
147	An ABC transporter B family protein, ABCB19, is required for cytoplasmic streaming and gravitropism of the inflorescence stems. Plant Signaling and Behavior, 2016, 11, e1010947.	1.2	21
148	The nuclear envelope protein KAKU4 determines the migration order of the vegetative nucleus and sperm cells in pollen tubes. Journal of Experimental Botany, 2020, 71, 6273-6281.	2.4	20
149	Isolation and characterization of a cDNA encoding mitochondrial chaperonin 10 from Arabidopsis thaliana by functional complementation of an Escherichia coli groES mutant. Plant Journal, 1996, 10, 1119-1125.	2.8	18
150	ANGUSTIFOLIA Regulates Actin Filament Alignment for Nuclear Positioning in Leaves. Plant Physiology, 2019, 179, 233-247.	2.3	18
151	Arabidopsis mutants affecting oxylipin signaling in photo-oxidative stress responses. Plant Physiology and Biochemistry, 2014, 81, 90-95.	2.8	16
152	Nup82 functions redundantly with Nup136 in a salicylic acid-dependent defense response of Arabidopsis thaliana. Nucleus, 2017, 8, 301-311.	0.6	16
153	HSP90 stabilizes auxin receptor TIR1 and ensures plasticity of auxin responses. Plant Signaling and Behavior, 2017, 12, e1311439.	1.2	16
154	A directionâ€selective localâ€thresholding method, <scp>DSLT</scp>, in combination with a dyeâ€based method for automated threeâ€dimensional segmentation of cells and airspaces in developing leaves. Plant Journal, 2015, 81, 357-366.	2.8	15
155	The AP-1 Complex is Required for Proper Mucilage Formation in Arabidopsis Seeds. Plant and Cell Physiology, 2018, 59, 2331-2338.	1.5	15
156	Methyl Jasmonate Affects Morphology, Number and Activity of Endoplasmic Reticulum Bodies in Raphanus sativus Root Cells. Plant and Cell Physiology, 2015, 56, 61-72.	1.5	14
157	tRNA Wobble Modification Affects Leaf Cell Development in Arabidopsis thaliana. Plant and Cell Physiology, 2019, 60, 2026-2039.	1.5	14
158	Myrosin cells are differentiated directly from ground meristem cells and are developmentally independent of the vasculature in Arabidopsis leaves. Plant Signaling and Behavior, 2016, 11, e1150403.	1.2	13
159	A Genotypic Comparison Reveals That the Improvement in Nitrogen Remobilization Efficiency in Oilseed Rape Leaves Is Related to Specific Patterns of Senescence-Associated Protease Activities and Phytohormones. Frontiers in Plant Science, 2019, 10, 46.	1.7	13
160	Identification of Periplasmic Root-Cap Mucilage in Developing Columella Cells of Arabidopsis thaliana. Plant and Cell Physiology, 2019, 60, 1296-1303.	1.5	13
161	Amino acid sequence surrounding the retinal-binding site in retinochrome of the squid,Todarodes pacificus. FEBS Letters, 1993, 335, 94-98.	1.3	12
162	Myrosin Cell Development Is Regulated by Endocytosis Machinery and PIN1 Polarity in Leaf Primordia of<i>Arabidopsis thaliana</i>Â. Plant Cell, 2014, 26, 4448-4461.	3.1	12

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