

Tomoo Shimada

List of Publications by Year in descending order

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89
papers

7,033
citations

44069

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62596

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91
docs citations

91
times ranked

6649
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant ESCRT protein ALIX coordinates with retromer complex in regulating receptor-mediated sorting of soluble vacuolar proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2200492119.	7.1	12
2	Fluorescent protein-based imaging and tissue-specific RNA-seq analysis of Arabidopsis hydathodes. <i>Journal of Experimental Botany</i> , 2021, 72, 1260-1270.	4.8	8
3	Spatiotemporal relationship between auxin dynamics and hydathode development in Arabidopsis leaf teeth. <i>Plant Signaling and Behavior</i> , 2021, , 1989216.	2.4	3
4	Structural and functional relationships between plasmodesmata and plant endoplasmic reticulum-plasma membrane contact sites consisting of three synaptotagmins. <i>New Phytologist</i> , 2020, 226, 798-808.	7.3	40
5	Higher Stomatal Density Improves Photosynthetic Induction and Biomass Production in Arabidopsis Under Fluctuating Light. <i>Frontiers in Plant Science</i> , 2020, 11, 589603.	3.6	69
6	Dynamic Capture and Release of Endoplasmic Reticulum Exit Sites by Golgi Stacks in Arabidopsis. <i>IScience</i> , 2020, 23, 101265.	4.1	11
7	Arabidopsis ECHIDNA protein is involved in seed coloration, protein trafficking to vacuoles, and vacuolar biogenesis. <i>Journal of Experimental Botany</i> , 2020, 71, 3999-4009.	4.8	10
8	HIGH STEROL ESTER 1 is a key factor in plant sterol homeostasis. <i>Nature Plants</i> , 2019, 5, 1154-1166.	9.3	26
9	Self-organizing researcher networks in the plant sciences. <i>Plants People Planet</i> , 2019, 1, 44-47.	3.3	2
10	Polar Localization of the Borate Exporter BOR1 Requires AP2-Dependent Endocytosis. <i>Plant Physiology</i> , 2019, 179, 1569-1580.	4.8	58
11	Leaf Endoplasmic Reticulum Bodies Identified in Arabidopsis Rosette Leaves Are Involved in Defense against Herbivory. <i>Plant Physiology</i> , 2019, 179, 1515-1524.	4.8	58
12	Biogenesis of leaf endoplasmic reticulum body is regulated by both jasmonate-dependent and independent pathways. <i>Plant Signaling and Behavior</i> , 2019, 14, 1622982.	2.4	6
13	Identification of Periplasmic Root-Cap Mucilage in Developing Columella Cells of Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2019, 60, 1296-1303.	3.1	13
14	Involvement of Adapter Protein Complex 4 in Hypersensitive Cell Death Induced by Avirulent Bacteria. <i>Plant Physiology</i> , 2018, 176, 1824-1834.	4.8	25
15	Subcellular localisation of an endoplasmic reticulum-plasma membrane tethering factor, SYNAPTOTAGMIN 1, is affected by fluorescent protein fusion. <i>Plant Signaling and Behavior</i> , 2018, 13, e1547577.	2.4	1
16	Efficient CRISPR/Cas9-based genome editing and its application to conditional genetic analysis in Marchantia polymorpha. <i>PLoS ONE</i> , 2018, 13, e0205117.	2.5	141
17	Endoplasmic Reticulum (ER) Membrane Proteins (LUNAPARKs) are Required for Proper Configuration of the Cortical ER Network in Plant Cells. <i>Plant and Cell Physiology</i> , 2018, 59, 1931-1941.	3.1	8
18	The AP-1 Complex is Required for Proper Mucilage Formation in Arabidopsis Seeds. <i>Plant and Cell Physiology</i> , 2018, 59, 2331-2338.	3.1	15

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19	Synaptotagmin-Associated Endoplasmic Reticulum-Plasma Membrane Contact Sites Are Localized to Immobile ER Tubules. <i>Plant Physiology</i> , 2018, 178, 641-653.	4.8	27
20	Inhibition of cell polarity establishment in stomatal asymmetric cell division using the chemical compound bubblin. <i>Development (Cambridge)</i> , 2017, 144, 499-506.	2.5	11
21	Polar Localization of the NIP5;1 Boric Acid Channel Is Maintained by Endocytosis and Facilitates Boron Transport in Arabidopsis Roots. <i>Plant Cell</i> , 2017, 29, 824-842.	6.6	107
22	Isolation of Protein Storage Vacuoles and Their Membranes. <i>Methods in Molecular Biology</i> , 2017, 1511, 163-168.	0.9	0
23	FAMA: A Molecular Link between Stomata and Myrosin Cells. <i>Trends in Plant Science</i> , 2016, 21, 861-871.	8.8	24
24	The Adaptor Complex AP-4 Regulates Vacuolar Protein Sorting at the trans-Golgi Network by Interacting with VACUOLAR SORTING RECEPTOR1. <i>Plant Physiology</i> , 2016, 170, 211-219.	4.8	72
25	Phosphorylation of the C Terminus of RHD3 Has a Critical Role in Homotypic ER Membrane Fusion in Arabidopsis. <i>Plant Physiology</i> , 2016, 170, 867-880.	4.8	31
26	Myrosin cells are differentiated directly from ground meristem cells and are developmentally independent of the vasculature in Arabidopsis leaves. <i>Plant Signaling and Behavior</i> , 2016, 11, e1150403.	2.4	13
27	An ABC transporter B family protein, ABCB19, is required for cytoplasmic streaming and gravitropism of the inflorescence stems. <i>Plant Signaling and Behavior</i> , 2016, 11, e1010947.	2.4	21
28	A direction-selective local thresholding method, <sc>DSL</sc>, in combination with a dye-based method for automated three-dimensional segmentation of cells and airspaces in developing leaves. <i>Plant Journal</i> , 2015, 81, 357-366.	5.7	15
29	BEACH-Domain Proteins Act Together in a Cascade to Mediate Vacuolar Protein Trafficking and Disease Resistance in Arabidopsis. <i>Molecular Plant</i> , 2015, 8, 389-398.	8.3	27
30	Myrosin Cell Development Is Regulated by Endocytosis Machinery and PIN1 Polarity in Leaf Primordia of <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2014, 26, 4448-4461.	6.6	12
31	<sc>GFS</sc>9<sc>TT</sc>9 contributes to intracellular membrane trafficking and flavonoid accumulation in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2014, 80, 410-423.	5.7	63
32	CONTINUOUS VASCULAR RING (COV1) is a trans-Golgi Network-Localized Membrane Protein Required for Golgi Morphology and Vacuolar Protein Sorting. <i>Plant and Cell Physiology</i> , 2014, 55, 764-772.	3.1	32
33	The Novel Nuclear Envelope Protein KAKU4 Modulates Nuclear Morphology in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 2143-2155.	6.6	81
34	The Plant Endomembrane System—A Complex Network Supporting Plant Development and Physiology. <i>Plant and Cell Physiology</i> , 2014, 55, 667-671.	3.1	25
35	CRISPR/Cas9-Mediated Targeted Mutagenesis in the Liverwort <i>Marchantia polymorpha</i> L.. <i>Plant and Cell Physiology</i> , 2014, 55, 475-481.	3.1	262
36	Leaf Oil Body Functions as a Subcellular Factory for the Production of a Phytoalexin in Arabidopsis. <i>Plant Physiology</i> , 2014, 164, 105-118.	4.8	98

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37	FAMA Is an Essential Component for the Differentiation of Two Distinct Cell Types, Myrosin Cells and Guard Cells, in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 4039-4052.	6.6	50
38	Evaluation of Defective Endosomal Trafficking to the Vacuole by Monitoring Seed Storage Proteins in <i>Arabidopsis thaliana</i> . <i>Methods in Molecular Biology</i> , 2014, 1209, 131-142.	0.9	2
39	MAIGO5 Functions in Protein Export from Golgi-Associated Endoplasmic Reticulum Exit Sites in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 4658-4675.	6.6	53
40	The AP-1 μ Adaptin is Required for KNOLLE Localization at the Cell Plate to Mediate Cytokinesis in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2013, 54, 838-847.	3.1	79
41	Spatiotemporal Secretion of PEROXIDASE36 Is Required for Seed Coat Mucilage Extrusion in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 1355-1367.	6.6	85
42	<sc>MAG</sc>2 and three <sc>MAG</sc>2<sc>INTERACTING PROTEIN</sc>s form an <sc>ER</sc>-localized complex to facilitate storage protein transport in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2013, 76, 781-791.	5.7	34
43	Enhancement of leaf photosynthetic capacity through increased stomatal density in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2013, 198, 757-764.	7.3	223
44	Identification and Dynamics of <i>Arabidopsis</i> Adaptor Protein-2 Complex and Its Involvement in Floral Organ Development. <i>Plant Cell</i> , 2013, 25, 2958-2969.	6.6	121
45	Positive and negative peptide signals control stomatal density. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 2081-2088.	5.4	63
46	A non-destructive screenable marker, OsFAST, for identifying transgenic rice seeds. <i>Plant Signaling and Behavior</i> , 2011, 6, 1454-1456.	2.4	9
47	Myosin XI-Dependent Formation of Tubular Structures from Endoplasmic Reticulum Isolated from Tobacco Cultured BY-2 Cells. <i>Plant Physiology</i> , 2011, 156, 129-143.	4.8	46
48	A rapid and non-destructive screenable marker, FAST, for identifying transformed seeds of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2010, 61, 519-528.	5.7	325
49	<i>Arabidopsis</i> Qa-SNARE SYP2 proteins localized to different subcellular regions function redundantly in vacuolar protein sorting and plant development. <i>Plant Journal</i> , 2010, 64, 924-935.	5.7	46
50	Stomagen positively regulates stomatal density in <i>Arabidopsis</i> . <i>Nature</i> , 2010, 463, 241-244.	27.8	382
51	Ectopic Expression of an Esterase, Which is a Candidate for the Unidentified Plant Cutinase, Causes Cuticular Defects in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2010, 51, 123-131.	3.1	105
52	MAG4/Atp115 is a Golgi-Localized Tethering Factor that Mediates Efficient Anterograde Transport in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2010, 51, 1777-1787.	3.1	33
53	Myosin-dependent endoplasmic reticulum motility and F-actin organization in plant cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6894-6899.	7.1	306
54	Vacuolar SNAREs Function in the Formation of the Leaf Vascular Network by Regulating Auxin Distribution. <i>Plant and Cell Physiology</i> , 2009, 50, 1319-1328.	3.1	52

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55	GNOM-LIKE1/ERMO1 and SEC24a/ERMO2 Are Required for Maintenance of Endoplasmic Reticulum Morphology in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2009, 21, 3672-3685.	6.6	92
56	A novel role for oleosins in freezing tolerance of oilseeds in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2008, 55, 798-809.	5.7	184
57	<i>Arabidopsis</i> VPS35, a Retromer Component, is Required for Vacuolar Protein Sorting and Involved in Plant Growth and Leaf Senescence. <i>Plant and Cell Physiology</i> , 2008, 49, 142-156.	3.1	105
58	<i>Arabidopsis</i> KAM2/GRV2 Is Required for Proper Endosome Formation and Functions in Vacuolar Sorting and Determination of the Embryo Growth Axis. <i>Plant Cell</i> , 2007, 19, 320-332.	6.6	83
59	MAIGO2 Is Involved in Exit of Seed Storage Proteins from the Endoplasmic Reticulum in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2007, 18, 3535-3547.	6.6	79
60	<i>Arabidopsis</i> Vacuolar Sorting Mutants (green fluorescent seed) Can Be Identified Efficiently by Secretion of Vacuole-Targeted Green Fluorescent Protein in Their Seeds. <i>Plant Cell</i> , 2007, 19, 597-609.	6.6	87
61	AtVAM3 is Required for Normal Specification of Idioblasts, Myrosin Cells. <i>Plant and Cell Physiology</i> , 2006, 47, 164-175.	3.1	91
62	AtVPS29, a Putative Component of a Retromer Complex, is Required for the Efficient Sorting of Seed Storage Proteins. <i>Plant and Cell Physiology</i> , 2006, 47, 1187-1194.	3.1	135
63	A VPE family supporting various vacuolar functions in plants. <i>Physiologia Plantarum</i> , 2005, 123, 369-375.	5.2	86
64	Endosomal proteases facilitate the fusion of endosomes with vacuoles at the final step of the endocytotic pathway. <i>Plant Journal</i> , 2005, 41, 888-898.	5.7	52
65	Identification of an Allele of VAM3/SYP22 that Confers a Semi-dwarf Phenotype in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2005, 46, 1358-1365.	3.1	41
66	KATAMARI1/MURUS3 Is a Novel Golgi Membrane Protein That Is Required for Endomembrane Organization in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2005, 17, 1764-1776.	6.6	134
67	An ER-Localized Form of PV72, a Seed-Specific Vacuolar Sorting Receptor, Interferes the Transport of an NPIR-Containing Proteinase in <i>Arabidopsis</i> Leaves. <i>Plant and Cell Physiology</i> , 2004, 45, 9-17.	3.1	64
68	Endoplasmic reticulum-resident proteins are constitutively transported to vacuoles for degradation. <i>Plant Journal</i> , 2004, 39, 393-402.	5.7	53
69	Diversity and Formation of Endoplasmic Reticulum-Derived Compartments in Plants. Are These Compartments Specific to Plant Cells?. <i>Plant Physiology</i> , 2004, 136, 3435-3439.	4.8	61
70	Why green fluorescent fusion proteins have not been observed in the vacuoles of higher plants. <i>Plant Journal</i> , 2003, 35, 545-555.	5.7	226
71	The ER Body, a Novel Endoplasmic Reticulum-Derived Structure in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2003, 44, 661-666.	3.1	92
72	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. <i>Plant Physiology</i> , 2003, 132, 1892-1900.	4.8	56

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73	Vacuolar Processing Enzymes Are Essential for Proper Processing of Seed Storage Proteins in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 32292-32299.	3.4	189
74	Vacuolar sorting receptor for seed storage proteins in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 16095-16100.	7.1	235
75	A Vacuolar Sorting Receptor PV72 on the Membrane of Vesicles that Accumulate Precursors of Seed Storage Proteins (PAC Vesicles). <i>Plant and Cell Physiology</i> , 2002, 43, 1086-1095.	3.1	74
76	Calcium-mediated Association of a Putative Vacuolar Sorting Receptor PV72 with a Propeptide of 2S Albumin. <i>Journal of Biological Chemistry</i> , 2002, 277, 8708-8715.	3.4	64
77	An Endoplasmic Reticulum-Derived Structure That Is Induced under Stress Conditions in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2002, 130, 1807-1814.	4.8	147
78	A Novel Membrane Protein That Is Transported to Protein Storage Vacuoles via Precursor-Accumulating Vesicles. <i>Plant Cell</i> , 2001, 13, 2361-2372.	6.6	31
79	A Novel Membrane Protein That Is Transported to Protein Storage Vacuoles via Precursor-Accumulating Vesicles. <i>Plant Cell</i> , 2001, 13, 2361.	6.6	3
80	Chloroplasts Have a Novel Cpn10 in Addition to Cpn20 as Co-chaperonins in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 29688-29694.	3.4	46
81	A Proteinase-Storing Body that Prepares for Cell Death or Stresses in the Epidermal Cells of <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2001, 42, 894-899.	3.1	208
82	Characterization of Organelles in the Vacuolar-Sorting Pathway by Visualization with GFP in Tobacco BY-2 Cells. <i>Plant and Cell Physiology</i> , 2000, 41, 993-1001.	3.1	138
83	Multiple Functional Proteins Are Produced by Cleaving Asn-Gln Bonds of a Single Precursor by Vacuolar Processing Enzyme. <i>Journal of Biological Chemistry</i> , 1999, 274, 2563-2570.	3.4	98
84	Chloroplast Cpn20 forms a tetrameric structure in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 1999, 17, 467-477.	5.7	46
85	Transport of Storage Proteins to Protein Storage Vacuoles Is Mediated by Large Precursor-Accumulating Vesicles. <i>Plant Cell</i> , 1998, 10, 825-836.	6.6	307
86	Transport of Storage Proteins to Protein Storage Vacuoles Is Mediated by Large Precursor-Accumulating Vesicles. <i>Plant Cell</i> , 1998, 10, 825.	6.6	22
87	Isolation and characterization of a cDNA encoding mitochondrial chaperonin 10 from <i>Arabidopsis thaliana</i> by functional complementation of an <i>Escherichia coli</i> groES mutant. <i>Plant Journal</i> , 1996, 10, 1119-1125.	5.7	18
88	Vacuolar Processing Enzyme Responsible for Maturation of Seed Proteins. <i>Journal of Plant Physiology</i> , 1995, 145, 632-640.	3.5	125
89	Vacuolar Processing Enzyme of Soybean That Converts Proproteins to the Corresponding Mature Forms. <i>Plant and Cell Physiology</i> , 1994, 35, 713-718.	3.1	87