Liwen Jiang

List of Publications by Year
in descending order

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224	18,611	17440 63	14759 127
papers	citations	h-index	g-index

237	237	237	25090
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	MicroRNAs Inhibit the Translation of Target mRNAs on the Endoplasmic Reticulum in Arabidopsis. Cell, 2013, 153, 562-574.	28.9	451
3	Identification of Multivesicular Bodies as Prevacuolar Compartments in Nicotiana tabacum BY-2 Cells[W]. Plant Cell, 2004, 16, 672-693.	6.6	386
4	Activation of ethylene signaling is mediated by nuclear translocation of the cleaved EIN2 carboxyl terminus. Cell Research, 2012, 22, 1613-1616.	12.0	336
5	The novel quantitative trait locus GL3.1 controls rice grain size and yield by regulating Cyclin-T1;3. Cell Research, 2012, 22, 1666-1680.	12.0	334
6	Organelle pH in the Arabidopsis Endomembrane System. Molecular Plant, 2013, 6, 1419-1437.	8.3	310
7	A Killer-Protector System Regulates Both Hybrid Sterility and Segregation Distortion in Rice. Science, 2012, 337, 1336-1340.	12.6	263
8	Rice SCAMP1 Defines Clathrin-Coated, trans-Golgiâ€“Located Tubular-Vesicular Structures as an Early Endosome in Tobacco BY-2 Cells. Plant Cell, 2007, 19, 296-319.	6.6	258
9	A role for theAtMTP11gene of Arabidopsis in manganese transport and tolerance. Plant Journal, 2007, 51, 198-210.	5.7	235
10	EXPO, an Exocyst-Positive Organelle Distinct from Multivesicular Endosomes and Autophagosomes, Mediates Cytosol to Cell Wall Exocytosis inArabidopsisand Tobacco Cells Â. Plant Cell, 2011, 22, 4009-4030.	6.6	229
11	Molecular Cloning and Further Characterization of a Probable Plant Vacuolar Sorting Receptor. Plant Physiology, 1997, 115, 29-39.	4.8	224
12	The Endosomal System of Plants: Charting New and Familiar Territories. Plant Physiology, 2008, 147, 1482-1492.	4.8	223
13	Integral Membrane Protein Sorting to Vacuoles in Plant Cells: Evidence for Two Pathways. Journal of Cell Biology, 1998, 143, 1183-1199.	5.2	213
14	Isolation and proteomic analysis of the SYP61 compartment reveal its role in exocytic trafficking in Arabidopsis. Cell Research, 2012, 22, 413-424.	12.0	211
15	Rha1, an Arabidopsis Rab5 Homolog, Plays a Critical Role in the Vacuolar Trafficking of Soluble Cargo Proteins. Plant Cell, 2003, 15, 1057-1070.	6.6	208
16	Transient expression of fluorescent fusion proteins in protoplasts of suspension cultured cells. Nature Protocols, 2007, 2, 2348-2353.	12.0	206
17	ATG9 regulates autophagosome progression from the endoplasmic reticulum in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E426-E435.	7.1	200
18	A BAR-Domain Protein SH3P2, Which Binds to Phosphatidylinositol 3-Phosphate and ATG8, Regulates Autophagosome Formation in Arabidopsis. Plant Cell, 2013, 25, 4596-4615.	6.6	195

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19	A Unique Plant ESCRT Component, FREE1, Regulates Multivesicular Body Protein Sorting and Plant Growth. Current Biology, 2014, 24, 2556-2563.	3.9	194
20	Activation of the Rab7 GTPase by the MON1-CCZ1 Complex Is Essential for PVC-to-Vacuole Trafficking and Plant Growth in Arabidopsis. Plant Cell, 2014, 26, 2080-2097.	6.6	192
21	Biogenesis of the Protein Storage Vacuole Crystalloid. Journal of Cell Biology, 2000, 150, 755-770.	5.2	171
22	The protein storage vacuole. Journal of Cell Biology, 2001, 155, 991-1002.	5.2	169
23	Dual roles of an Arabidopsis ESCRT component FREE1 in regulating vacuolar protein transport and autophagic degradation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1886-1891.	7.1	166
24	PICK1 deficiency causes male infertility in mice by disrupting acrosome formation. Journal of Clinical Investigation, 2009, 119, 802-812.	8.2	159
25	Essential role for TrpC5-containing extracellular vesicles in breast cancer with chemotherapeutic resistance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6389-6394.	7.1	152
26	Unconventional protein secretion. Trends in Plant Science, 2012, 17, 606-615.	8.8	147
27	Plant Retromer, Localized to the Prevacuolar Compartment and Microvesicles in Arabidopsis, May Interact with Vacuolar Sorting Receptors. Plant Cell, 2006, 18, 1239-1252.	6.6	143
28	Pten Deletion Promotes Regrowth of Corticospinal Tract Axons 1 Year after Spinal Cord Injury. Journal of Neuroscience, 2015, 35, 9754-9763.	3.6	143
29	A cross-kingdom conserved ER-phagy receptor maintains endoplasmic reticulum homeostasis during stress. ELife, 2020, 9, .	6.0	139
30	Wortmannin induces homotypic fusion of plant prevacuolar compartments*. Journal of Experimental Botany, 2009, 60, 3075-3083.	4.8	134
31	PROTEIN S-ACYL TRANSFERASE10 Is Critical for Development and Salt Tolerance in Arabidopsis Â. Plant Cell, 2013, 25, 1093-1107.	6.6	131
32	FYVE1/FREE1 Interacts with the PYL4 ABA Receptor and Mediates Its Delivery to the Vacuolar Degradation Pathway. Plant Cell, 2016, 28, 2291-2311.	6.6	129
33	Localization of Green Fluorescent Protein Fusions with the Seven Arabidopsis Vacuolar Sorting Receptors to Prevacuolar Compartments in Tobacco BY-2 Cells. Plant Physiology, 2006, 142, 945-962.	4.8	125
34	Plant extracellular vesicles. Protoplasma, 2020, 257, 3-12.	2.1	116
35	Retromer recycles vacuolar sorting receptors from thetrans-Golgi network. Plant Journal, 2010, 61, 107-121.	5.7	115
36	Biogenesis of Plant Prevacuolar Multivesicular Bodies. Molecular Plant, 2016, 9, 774-786.	8.3	115

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37	Plant ESCRT Complexes: Moving Beyond Endosomal Sorting. Trends in Plant Science, 2017, 22, 986-998.	8.8	109
38	TRAF Family Proteins Regulate Autophagy Dynamics by Modulating AUTOPHAGY PROTEIN6 Stability in Arabidopsis. Plant Cell, 2017, 29, 890-911.	6.6	108
39	BFAâ€induced compartments from the Golgi apparatus and transâ€Golgi network/early endosome are distinct in plant cells. Plant Journal, 2009, 60, 865-881.	5.7	107
40	Functional Analysis of Nuclear Estrogen Receptors in Zebrafish Reproduction by Genome Editing Approach. Endocrinology, 2017, 158, 2292-2308.	2.8	105
41	Salicylic acid-mediated plasmodesmal closure via Remorin-dependent lipid organization. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21274-21284.	7.1	102
42	BP-80 and Homologs are Concentrated on Post-Golgi, Probable Lytic Prevacuolar Compartments. Plant and Cell Physiology, 2002, 43, 726-742.	3.1	99
43	The Golgi-Localized Arabidopsis Endomembrane Protein12 Contains Both Endoplasmic Reticulum Export and Golgi Retention Signals at Its C Terminus. Plant Cell, 2012, 24, 2086-2104.	6.6	98
44	Overproduction of Upper-Layer Neurons in the Neocortex Leads to Autism-like Features in Mice. Cell Reports, 2014, 9, 1635-1643.	6.4	96
45	Unconventional protein secretion in plants: a critical assessment. Protoplasma, 2016, 253, 31-43.	2.1	96
46	Dynamics of Autophagosome Formation. Plant Physiology, 2018, 176, 219-229.	4.8	95
47	Overexpression of AtOGG1, a DNA glycosylase/AP lyase, enhances seed longevity and abiotic stress tolerance in Arabidopsis. Journal of Experimental Botany, 2012, 63, 4107-4121.	4.8	93
48	Tracking down the elusive early endosome. Trends in Plant Science, 2007, 12, 497-505.	8.8	91
49	A whole-cell electron tomography model of vacuole biogenesis in Arabidopsis root cells. Nature Plants, 2019, 5, 95-105.	9.3	89
50	A two-locus interaction causes interspecific hybrid weakness in rice. Nature Communications, 2014, 5, 3357.	12.8	88
51	Trans-Golgi Network-Located AP1 Gamma Adaptins Mediate Dileucine Motif-Directed Vacuolar Targeting in Arabidopsis. Plant Cell, 2014, 26, 4102-4118.	6.6	87
52	Retention mechanisms for ER and Golgi membrane proteins. Trends in Plant Science, 2014, 19, 508-515.	8.8	83
53	Unconventional protein secretion (UPS) pathways in plants. Current Opinion in Cell Biology, 2014, 29, 107-115.	5.4	78
54	The Arabidopsis Endosomal Sorting Complex Required for Transport III Regulates Internal Vesicle Formation of the Prevacuolar Compartment and Is Required for Plant Development. Plant Physiology, 2014, 165, 1328-1343.	4.8	76

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55	Endoplasmic reticulum (ER) stress and the unfolded protein response (UPR) in plants. Protoplasma, 2016, 253, 753-764.	2.1	76
56	PICK1 and ICA69 Control Insulin Granule Trafficking and Their Deficiencies Lead to Impaired Glucose Tolerance. PLoS Biology, 2013, 11, e1001541.	5.6	74
57	Protein secretion in plants: conventional and unconventional pathways and new techniques. Journal of Experimental Botany, 2018, 69, 21-37.	4.8	74
58	Autophagosome Biogenesis and the Endoplasmic Reticulum: A Plant Perspective. Trends in Plant Science, 2018, 23, 677-692.	8.8	74
59	Exo70E2 is essential for exocyst subunit recruitment and EXPO formation in both plants and animals. Molecular Biology of the Cell, 2014, 25, 412-426.	2.1	71
60	Overexpression of Arabidopsis AGD7 Causes Relocation of Golgi-Localized Proteins to the Endoplasmic Reticulum and Inhibits Protein Trafficking in Plant Cells. Plant Physiology, 2007, 143, 1601-1614.	4.8	70
61	Protein Mobilization in Germinating Mung Bean Seeds Involves Vacuolar Sorting Receptors and Multivesicular Bodies. Plant Physiology, 2007, 143, 1628-1639.	4.8	70
62	Proteomic and functional analyses of Nelumbo nucifera annexins involved in seed thermotolerance and germination vigor. Planta, 2012, 235, 1271-1288.	3.2	70
63	A dualâ€targeted purple acid phosphatase in Arabidopsis thaliana moderates carbon metabolism and its overexpression leads to faster plant growth and higher seed yield. New Phytologist, 2012, 194, 206-219.	7.3	70
64	The vacuolar transport of aleurainâ€GFP and 2S albuminâ€GFP fusions is mediated by the same preâ€vacuolar compartments in tobacco BYâ€2 and Arabidopsis suspension cultured cells. Plant Journal, 2008, 56, 824-839.	5.7	69
65	The plant ESCRT component FREE1 shuttles to the nucleus to attenuate abscisic acid signalling. Nature Plants, 2019, 5, 512-524.	9.3	68
66	Multiple cytosolic and transmembrane determinants are required for the trafficking of SCAMP1 via an ERâ€“Golgiâ€“TGNâ€“PM pathway. Plant Journal, 2011, 65, 882-896.	5.7	67
67	AtSec62 is critical for plant development and is involved in ERâ€phagy in Arabidopsis thaliana. Journal of Integrative Plant Biology, 2020, 62, 181-200.	8.5	67
68	Dynamic Response of Prevacuolar Compartments to Brefeldin A in Plant Cells. Plant Physiology, 2006, 142, 1442-1459.	4.8	66
69	The Arabidopsis Dynamin-Like Proteins ADL1C and ADL1E Play a Critical Role in Mitochondrial Morphogenesis. Plant Cell, 2003, 15, 2357-2369.	6.6	65
70	Unique COPII component AtSar1a/AtSec23a pair is required for the distinct function of protein ER export in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14360-14365.	7.1	65
71	Endocytic and autophagic pathways crosstalk in plants. Current Opinion in Plant Biology, 2015, 28, 39-47.	7.1	65
72	K⁺ Efflux Antiporters 4, 5, and 6 Mediate pH and K⁺ Homeostasis in Endomembrane Compartments. Plant Physiology, 2018, 178, 1657-1678.	4.8	65

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73	Overexpression of Nelumbo nucifera metallothioneins 2a and 3 enhances seed germination vigor in Arabidopsis. Planta, 2012, 235, 523-537.	3.2	64
74	Ubiquitin initiates sorting of Golgi and plasma membrane proteins into the vacuolar degradation pathway. BMC Plant Biology, 2012, 12, 164.	3.6	62
75	Subcellular localization of rice acylâ€CoAâ€binding proteins (ACBPs) indicates that Os<scp>ACBP</scp>6::<scp>GFP</scp> is targeted to the peroxisomes. New Phytologist, 2014, 203, 469-482.	7.3	62
76	A Distinct Pathway for Polar Exocytosis in Plant Cell Wall Formation Â. Plant Physiology, 2016, 172, 1003-1018.	4.8	61
77	COPII Paralogs in Plants: Functional Redundancy or Diversity?. Trends in Plant Science, 2016, 21, 758-769.	8.8	61
78	MTV1 and MTV4 Encode Plant-Specific ENTH and ARF GAP Proteins That Mediate Clathrin-Dependent Trafficking of Vacuolar Cargo from the Trans-Golgi Network. Plant Cell, 2013, 25, 2217-2235.	6.6	60
79	Selective Membrane Protein Internalization Accompanies Movement from the Endoplasmic Reticulum to the Protein Storage Vacuole Pathway in Arabidopsis. Plant Cell, 2005, 17, 3066-3080.	6.6	59
80	The Rice RMR1 Associates with a Distinct Prevacuolar Compartment for the Protein Storage Vacuole Pathway. Molecular Plant, 2011, 4, 854-868.	8.3	59
81	Isolation, Culture, and Transient Transformation of Plant Protoplasts. Current Protocols in Cell Biology, 2014, 63, 2.8.1-17.	2.3	58
82	ATM and ATR play complementary roles in the behavior of excitatory and inhibitory vesicle populations. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E292-E301.	7.1	58
83	The roles of endomembrane trafficking in plant abiotic stress responses. Journal of Integrative Plant Biology, 2020, 62, 55-69.	8.5	57
84	Multivesicular bodies: a mechanism to package lytic and storage functions in one organelle?. Trends in Cell Biology, 2002, 12, 362-367.	7.9	56
85	Vacuolar sorting receptors (VSRs) and secretory carrier membrane proteins (SCAMPs) are essential for pollen tube growth. Plant Journal, 2010, 61, 826-838.	5.7	56
86	NnHSP17.5, a cytosolic class II small heat shock protein gene from Nelumbo nucifera, contributes to seed germination vigor and seedling thermotolerance in transgenic Arabidopsis. Plant Cell Reports, 2012, 31, 379-389.	5.6	56
87	Ephexin1 Is Required for Structural Maturation and Neurotransmission at the Neuromuscular Junction. Neuron, 2010, 65, 204-216.	8.1	55
88	Transient expression and analysis of fluorescent reporter proteins in plant pollen tubes. Nature Protocols, 2011, 6, 419-426.	12.0	55
89	Subcellular Localization of Class II HDAs in Arabidopsis thaliana: Nucleocytoplasmic Shuttling of HDA15 Is Driven by Light. PLoS ONE, 2012, 7, e30846.	2.5	55
90	Chloroplast Degradation: Multiple Routes Into the Vacuole. Frontiers in Plant Science, 2019, 10, 359.	3.6	54

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91	Improved expression and purification of recombinant human serum albumin from transgenic tobacco suspension culture. Journal of Biotechnology, 2011, 155, 164-172.	3.8	52
92	Golgi Apparatus-Localized Synaptotagmin 2 Is Required for Unconventional Secretion in Arabidopsis. PLoS ONE, 2011, 6, e26477.	2.5	51
93	SCAMPs Highlight the Developing Cell Plate during Cytokinesis in Tobacco BY-2 Cells Â Â Â. Plant Physiology, 2008, 147, 1637-1645.	4.8	50
94	QUASIMODO 3 (QUA3) is a putative homogalacturonan methyltransferase regulating cell wall biosynthesis in Arabidopsis suspension-cultured cells. Journal of Experimental Botany, 2011, 62, 5063-5078.	4.8	50
95	Apical <scp>F</scp>â€actinâ€regulated exocytic targeting of <scp>N</scp>t<scp>PPME</scp>1 is essential for construction and rigidity of the pollen tube cell wall. Plant Journal, 2013, 76, 367-379.	5.7	50
96	Vacuole Biogenesis in Plants: How Many Vacuoles, How Many Models?. Trends in Plant Science, 2020, 25, 538-548.	8.8	50
97	Production of active human glucocerebrosidase in seeds of Arabidopsis thaliana complex-glycan-deficient (cgl) plants. Glycobiology, 2012, 22, 492-503.	2.5	48
98	Ectopic expression of NnPER1, a Nelumbo nucifera 1â€cysteine peroxiredoxin antioxidant, enhances seed longevity and stress tolerance in Arabidopsis. Plant Journal, 2016, 88, 608-619.	5.7	48
99	Vacuolar Sorting Receptor (VSR) Proteins Reach the Plasma Membrane in Germinating Pollen Tubes. Molecular Plant, 2011, 4, 845-853.	8.3	47
100	ARA7(Q69L) expression in transgenic Arabidopsis cells induces the formation of enlarged multivesicular bodies. Journal of Experimental Botany, 2013, 64, 2817-2829.	4.8	47
101	Friendly mediates membrane depolarization-induced mitophagy in Arabidopsis. Current Biology, 2021, 31, 1931-1944.e4.	3.9	47
102	Injured adult retinal axons with Pten and Socs3 co-deletion reform active synapses with suprachiasmatic neurons. Neurobiology of Disease, 2015, 73, 366-376.	4.4	46
103	SINAT E3 Ubiquitin Ligases Mediate FREE1 and VPS23A Degradation to Modulate Abscisic Acid Signaling. Plant Cell, 2020, 32, 3290-3310.	6.6	46
104	EXPO and Autophagosomes are Distinct Organelles in Plants. Plant Physiology, 2015, 169, pp.00953.2015.	4.8	43
105	AGC1.5 Kinase Phosphorylates RopGEFs to Control Pollen Tube Growth. Molecular Plant, 2018, 11, 1198-1209.	8.3	43
106	SH3 Domain-Containing Protein 2 Plays a Crucial Role at the Step of Membrane Tubulation during Cell Plate Formation. Plant Cell, 2017, 29, 1388-1405.	6.6	42
107	Conserved function of the lysine-based KXD/E motif in Golgi retention for endomembrane proteins among different organisms. Molecular Biology of the Cell, 2015, 26, 4280-4293.	2.1	41
108	A plant Bro1 domain protein BRAF regulates multivesicular body biogenesis and membrane protein homeostasis. Nature Communications, 2018, 9, 3784.	12.8	41

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109	A mechanism for differential sorting of the planar cell polarity proteins Frizzled6 and Vangl2 at the trans-Golgi network. Journal of Biological Chemistry, 2018, 293, 8410-8427.	3.4	40
110	OsNOA1/RIF1 is a functional homolog of AtNOA1/RIF1: implication for a highly conserved plant cGTPase essential for chloroplast function. New Phytologist, 2010, 187, 83-105.	7.3	39
111	Vacuolar Degradation of Two Integral Plasma Membrane Proteins, <scp>AtLRR84A</scp> and <scp>OsSCAMP1</scp>, IsÂCargo Ubiquitinationâ€Independent and Prevacuolar Compartmentâ€Mediated in Plant Cells. Traffic, 2012, 13, 1023-1040.	2.7	39
112	Signal motifs-dependent ER export of Qc-SNARE BET12 interacts with MEMB12 and affects PR1 trafficking in Arabidopsis. Journal of Cell Science, 2018, 131, .	2.0	39
113	VPS36-Dependent Multivesicular Bodies Are Critical for Plasmamembrane Protein Turnover and Vacuolar Biogenesis. Plant Physiology, 2017, 173, 566-581.	4.8	39
114	Plasma Membrane Localization and Potential Endocytosis of Constitutively Expressed XA21 Proteins in Transgenic Rice. Molecular Plant, 2010, 3, 917-926.	8.3	38
115	An in vivo expression system for the identification of cargo proteins of vacuolar sorting receptors in <scp>A</scp>rabidopsis culture cells. Plant Journal, 2013, 75, 1003-1017.	5.7	38
116	PPero, a Computational Model for Plant PTS1 Type Peroxisomal Protein Prediction. PLoS ONE, 2017, 12, e0168912.	2.5	38
117	Subnanometer resolution cryo-EM structure of Arabidopsis thaliana ATG9. Autophagy, 2020, 16, 575-583.	9.1	36
118	Functional analysis of a Golgi-localized Kex2p-like protease in tobacco suspension culture cells. Plant Journal, 1999, 18, 23-32.	5.7	35
119	Autophagosome biogenesis in plants. Autophagy, 2014, 10, 704-705.	9.1	35
120	Homomeric Interaction of AtVSR1 Is Essential for Its Function as a Vacuolar Sorting Receptor. Plant Physiology, 2010, 154, 134-148.	4.8	34
121	Calciumâ€dependent protein kinase <scp>CPK</scp>28 targets the methionine adenosyltransferases for degradation by the 26S proteasome and affects ethylene biosynthesis and lignin deposition in Arabidopsis. Plant Journal, 2017, 90, 304-318.	5.7	34
122	A unique AtSar1D-AtRabD2a nexus modulates autophagosome biogenesis in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	34
123	Arabidopsis COG Complex Subunits COG3 and COG8 Modulate Golgi Morphology, Vesicle Trafficking Homeostasis and Are Essential for Pollen Tube Growth. PLoS Genetics, 2016, 12, e1006140.	3.5	33
124	Membrane anchors for vacuolar targeting: application in plant bioreactors. Trends in Biotechnology, 2002, 20, 99-102.	9.3	32
125	Plant RMR proteins: unique vacuolar sorting receptors that couple ligand sorting with membrane internalization. FEBS Journal, 2011, 278, 59-68.	4.7	32
126	Secretory carrier membrane proteins. Protoplasma, 2012, 249, 269-283.	2.1	32

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127	Plant Prevacuolar/Endosomal Compartments. International Review of Cytology, 2006, 253, 95-129.	6.2	31
128	Nâ€linked glycosylation of At<scp>VSR</scp>1 is important for vacuolar protein sorting in <scp>A</scp>rabidopsis. Plant Journal, 2014, 80, 977-992.	5.7	31
129	Expression and characterization of two functional vacuolar sorting receptor (VSR) proteins, BP-80 and AtVSR4 from culture media of transgenic tobacco BY-2 cells. Plant Science, 2010, 179, 68-76.	3.6	30
130	PINOID Is Required for Formation of the Stigma and Style in Rice. Plant Physiology, 2019, 180, 926-936.	4.8	30
131	Vacuoles protect plants from high magnesium stress. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2931-2932.	7.1	29
132	AtNBR1 Is a Selective Autophagic Receptor for AtExo70E2 in Arabidopsis. Plant Physiology, 2020, 184, 777-791.	4.8	28
133	AtBRO1 Functions in ESCRT-I Complex to Regulate Multivesicular Body Protein Sorting. Molecular Plant, 2016, 9, 760-763.	8.3	27
134	Lhx1/5 control dendritogenesis and spine morphogenesis of Purkinje cells via regulation of Espin. Nature Communications, 2017, 8, 15079.	12.8	26
135	MONENSIN SENSITIVITY1 (MON1)/CALCIUM CAFFEINE ZINC SENSITIVITY1 (CCZ1)-Mediated Rab7 Activation Regulates Tapetal Programmed Cell Death and Pollen Development. Plant Physiology, 2017, 173, 206-218.	4.8	25
136	TM9SF4 is a novel factor promoting autophagic flux under amino acid starvation. Cell Death and Differentiation, 2018, 25, 368-379.	11.2	25
137	SINAT E3 ligases regulate the stability of the ESCRT component FREE1 in response to iron deficiency in plants. Journal of Integrative Plant Biology, 2020, 62, 1399-1417.	8.5	25
138	An in vitro vesicle formation assay reveals cargo clients and factors that mediate vesicular trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	25
139	The Multivesicular Body and Autophagosome Pathways in Plants. Frontiers in Plant Science, 2018, 9, 1837.	3.6	24
140	Vicilin and Napin Storage-Protein Gene Promoters Are Responsive to Abscisic Acid in Developing Transgenic Tobacco Seed but Lose Sensitivity following Premature Desiccation. Plant Physiology, 1996, 110, 1135-1144.	4.8	23
141	Sorting of membrane proteins to vacuoles in plant cells. Plant Science, 1999, 146, 55-67.	3.6	23
142	Storage globulins pass through the Golgi apparatus and multivesicular bodies in the absence of dense vesicle formation during early stages of cotyledon development in mung bean. Journal of Experimental Botany, 2012, 63, 1367-1380.	4.8	23
143	MTV proteins unveil ER- and microtubule-associated compartments in the plant vacuolar trafficking pathway. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9884-9895.	7.1	23
144	Gene Expression Profiles of Cold-stored and Fresh Pollen to Investigate Pollen Germination and Growth. Plant and Cell Physiology, 2004, 45, 1519-1528.	3.1	22

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145	Heterologous expression analyses of rice OsCAS in Arabidopsis and in yeast provide evidence for its roles in cyanide detoxification rather than in cysteine synthesis in vivo. Journal of Experimental Botany, 2009, 60, 993-1008.	4.8	22
146	Î±2-COP is involved in early secretory traffic in Arabidopsis and is required for plant growth. Journal of Experimental Botany, 2016, 68, erw446.	4.8	22
147	Sorting Motifs Involved in the Trafficking and Localization of the PIN1 Auxin Efflux Carrier. Plant Physiology, 2016, 171, 1965-1982.	4.8	22
148	Structural basis of substrate recognition and thermal protection by a small heat shock protein. Nature Communications, 2021, 12, 3007.	12.8	22
149	Plant Bioreactors for Pharmaceuticals. Biotechnology and Genetic Engineering Reviews, 2008, 25, 363-380.	6.2	21
150	How Vacuolar Sorting Receptor Proteins Interact with Their Cargo Proteins: Crystal Structures of Apo and Cargo-Bound Forms of the Protease-Associated Domain from an Arabidopsis Vacuolar Sorting Receptor. Plant Cell, 2014, 26, 3693-3708.	6.6	21
151	Polycystin-2 Plays an Essential Role in Glucose Starvation-Induced Autophagy in Human Embryonic Stem Cell-Derived Cardiomyocytes. Stem Cells, 2018, 36, 501-513.	3.2	20
152	ER-Phagy and ER Stress Response (ERSR) in Plants. Frontiers in Plant Science, 2019, 10, 1192.	3.6	20
153	RST1 Is a FREE1 Suppressor That Negatively Regulates Vacuolar Trafficking in Arabidopsis. Plant Cell, 2019, 31, 2152-2168.	6.6	20
154	A plantâ€unique ESCRT component, FYVE4, regulates multivesicular endosome biogenesis and plant growth. New Phytologist, 2021, 231, 193-209.	7.3	20
155	Na⁺,K⁺/H⁺ antiporters regulate the pH of endoplasmic reticulum and auxinâ€mediated development. Plant, Cell and Environment, 2018, 41, 850-864.	5.7	19
156	Fast-Suppressor Screening for New Components in Protein Trafficking, Organelle Biogenesis and Silencing Pathway in Arabidopsis thaliana Using DEX-Inducible FREE1-RNAi Plants. Journal of Genetics and Genomics, 2015, 42, 319-330.	3.9	18
157	Possible Roles of Membrane Trafficking Components for Lipid Droplet Dynamics in Higher Plants and Green Algae. Frontiers in Plant Science, 2019, 10, 207.	3.6	18
158	Plant Rho GTPase signaling promotes autophagy. Molecular Plant, 2021, 14, 905-920.	8.3	18
159	Compartmentation of proteins in the protein storage vacuole: A compound organelle in plant cells. Advances in Botanical Research, 2001, 35, 139-170.	1.1	17
160	Plant Prevacuolar Compartments and Endocytosis. , 0, , 37-61.		17
161	Origin of the Autophagosomal Membrane in Plants. Frontiers in Plant Science, 2016, 7, 1655.	3.6	17
162	The interplay between endomembranes and autophagy in plants. Current Opinion in Plant Biology, 2019, 52, 14-22.	7.1	17

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163	The 5[prime] Flanking Regions of Vicilin and Napin Storage Protein Genes Are Down-Regulated by Desiccation in Transgenic Tobacco. Plant Physiology, 1995, 107, 1439-1449.	4.8	15
164	Organelle Identification and Characterization in Plant Cells: Using a Combinational Approach of Confocal Immunofluorescence and Electron Microscope. Journal of Plant Biology, 2009, 52, 1-9.	2.1	15
165	Production and characterization of soluble human lysosomal enzyme Î±-iduronidase with high activity from culture media of transgenic tobacco BY-2 cells. Plant Science, 2009, 177, 668-675.	3.6	15
166	A distinct giant coat protein complex II vesicle population in Arabidopsis thaliana. Nature Plants, 2021, 7, 1335-1346.	9.3	15
167	Arabidopsis HOPS subunit VPS41 carries out plant-specific roles in vacuolar transport and vegetative growth. Plant Physiology, 2022, 189, 1416-1434.	4.8	14
168	TRPM2 Promotes Atherosclerotic Progression in a Mouse Model of Atherosclerosis. Cells, 2022, 11, 1423.	4.1	14
169	The Role of BP-80 and Homologs in Sorting Proteins to Vacuoles. Plant Cell, 1999, 11, 2069-2071.	6.6	13
170	AtCAP2 is crucial for lytic vacuole biogenesis during germination by positively regulating vacuolar protein trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1675-E1683.	7.1	13
171	Drosophila Exo70 Is Essential for Neurite Extension and Survival under Thermal Stress. Journal of Neuroscience, 2018, 38, 8071-8086.	3.6	13
172	TRPM2 promotes autophagic degradation in vascular smooth muscle cells. Scientific Reports, 2020, 10, 20719.	3.3	13
173	Membrane imaging in the plant endomembrane system. Plant Physiology, 2021, 185, 562-576.	4.8	13
174	Molecular Characterization of Plant Prevacuolar and Endosomal Compartments. Journal of Integrative Plant Biology, 2007, 49, 1119-1128.	8.5	12
175	Aortic Baroreceptors Display Higher Mechanosensitivity than Carotid Baroreceptors. Frontiers in Physiology, 2016, 7, 384.	2.8	12
176	MYB106 is a negative regulator and a substrate for CRL3^{BPM} E3 ligase in regulating flowering time in Arabidopsis thaliana. Journal of Integrative Plant Biology, 2021, 63, 1104-1119.	8.5	12
177	Mechanistic insights into an atypical interaction between ATG8 and SH3P2 inArabidopsis thaliana. Autophagy, 2022, 18, 1350-1366.	9.1	12
178	Plant ESCRT protein ALIX coordinates with retromer complex in regulating receptor-mediated sorting of soluble vacuolar proteins. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2200492119.	7.1	12
179	Role of desiccation in the termination of expression of genes for storage proteins. Seed Science Research, 1994, 4, 149-173.	1.7	11
180	Organelle identification and proteomics in plant cells. Trends in Biotechnology, 2003, 21, 331-332.	9.3	11

#	Article	IF	Citations
181	Molecular mechanisms that regulate export of the planar cell-polarity protein Frizzled-6 out of the endoplasmic reticulum. Journal of Biological Chemistry, 2020, 295, 8972-8987.	3.4	11
182	Subcellular Localization of Rice Acyl-CoA-Binding Proteins ACBP4 and ACBP5 Supports Their Non-redundant Roles in Lipid Metabolism. Frontiers in Plant Science, 2020, 11, 331.	3.6	11
183	Correlation of vacuole morphology with stomatal lineage development by whole-cell electron tomography. Plant Physiology, 2022, 188, 2085-2100.	4.8	11
184	A 64 kDa sucrose binding protein is membrane-associated and tonoplast-localized in developing mung bean seeds. Journal of Experimental Botany, 2009, 60, 629-639.	4.8	9
185	Successful transport to the vacuole of heterologously expressed mung bean 8S globulin occurs in seed but not in vegetative tissues. Journal of Experimental Botany, 2013, 64, 1587-1601.	4.8	9
186	TRPV6 protects ER stress-induced apoptosis via ATF6Î±-TRPV6-JNK pathway in human embryonic stem cell-derived cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2018, 120, 1-11.	1.9	9
187	Structural Biology and Electron Microscopy of the Autophagy Molecular Machinery. Cells, 2019, 8, 1627.	4.1	9
188	ESCRTâ€dependent vacuolar sorting and degradation of the auxin biosynthetic enzyme YUC1 flavin monooxygenase. Journal of Integrative Plant Biology, 2019, 61, 968-973.	8.5	9
189	Systematic prediction of autophagyâ€related proteins using Arabidopsis thaliana interactome data. Plant Journal, 2021, 105, 708-720.	5.7	9
190	Hydrolysis of organophosphorus by diatom purple acid phosphatase and sequential regulation of cell metabolism. Journal of Experimental Botany, 2021, 72, 2918-2932.	4.8	9
191	TM9SF4 Is a Crucial Regulator of Inflammation and ER Stress in Inflammatory Bowel Disease. Cellular and Molecular Gastroenterology and Hepatology, 2022, 14, 245-270.	4.5	9
192	The plant ESCRT component FREE1 regulates peroxisome-mediated turnover of lipid droplets in germinating Arabidopsis seedlings. Plant Cell, 2022, 34, 4255-4273.	6.6	9
193	Enigmatic Brefeldin A. Plant Signaling and Behavior, 2007, 2, 199-202.	2.4	8
194	Using Fluorescent Protein Fusions to Study Protein Subcellular Localization and Dynamics in Plant Cells. Methods in Molecular Biology, 2016, 1474, 113-123.	0.9	8
195	Modulating the activities of chloroplasts and mitochondria promotes adenosine triphosphate production and plant growth. Quantitative Plant Biology, 2021, 2, .	2.0	8
196	Structural insights into how vacuolar sorting receptors recognize the sorting determinants of seed storage proteins. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	8
197	Targeting and processing of membrane-anchored YFP fusion proteins to protein storage vacuoles in transgenic tobacco seeds. Seed Science Research, 2005, 15, 361-364.	1.7	7
198	Targeting tail-anchored proteins into plant organelles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1762-1764.	7.1	7

#	Article	IF	Citations
199	Re-assessment of biolistic transient expression: An efficient and robust method for protein localization studies in seedling-lethal mutant and juvenile plants. Plant Science, 2018, 274, 2-7.	3.6	7
200	Membrane Contact Sites and Organelles Interaction in Plant Autophagy. Frontiers in Plant Science, 2020, 11, 477.	3.6	7
201	COPII vesicles in plant autophagy and endomembrane trafficking. FEBS Letters, 2022, 596, 2314-2323.	2.8	7
202	Response to Gomord et al.: Golgi-bypassing: delivery of biopharmaceutical proteins to protein storage vacuoles in plant bioreactors. Trends in Biotechnology, 2006, 24, 147-149.	9.3	6
203	Hormone modulates protein dynamics to regulate plant growth. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3521-3523.	7.1	6
204	New insights into AtNBR1 as a selective autophagy cargo receptor in Arabidopsis. Plant Signaling and Behavior, 2021, 16, 1839226.	2.4	6
205	MYB117 is a negative regulator of flowering time in Arabidopsis. Plant Signaling and Behavior, 2021, 16, 1901448.	2.4	6
206	Leucine-rich repeat receptor-like protein kinase AtORPK1 promotes oxidative stress resistance in an AtORPK1-AtKAPP mediated module in Arabidopsis. Plant Science, 2022, 315, 111147.	3.6	6
207	Protein Co-localization Studies: Issues and Considerations. Molecular Plant, 2016, 9, 1221-1223.	8.3	5
208	Premature Drying Increases the GA-Responsiveness of Developing Aleurone Layers of Barley (Hordeum) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.1	4
209	Membrane anchors effectively traffic recombinant human glucocerebrosidase to the protein storage vacuole of Arabidopsis seeds but do not adequately control N-glycan maturation. Plant Cell Reports, 2014, 33, 2023-2032.	5.6	4
210	A rapid and efficient method to study the function of crop plant transporters in Arabidopsis. Protoplasma, 2017, 254, 737-747.	2.1	4
211	Transmembrane 6 superfamily 1 (Tm6sf1) is a novel lysosomal transmembrane protein. Protoplasma, 2015, 252, 977-983.	2.1	2
212	Analysis of Prevacuolar Compartment-Mediated Vacuolar Proteins Transport. Methods in Molecular Biology, 2014, 1209, 119-129.	0.9	2
213	Organelle biogenesis and function in plants. Scientia Sinica Vitae, 2019, 49, 1679-1694.	0.3	2
214	Transient Expression of Fluorescent Fusion Proteins in Arabidopsis Protoplasts. Methods in Molecular Biology, 2021, 2200, 157-165.	0.9	2
215	Back to the roots: A focus on plant cell biology. Plant Cell, 2022, 34, 1-3.	6.6	1
216	The Role of BP-80 and Homologs in Sorting Proteins to Vacuoles. Plant Cell, 1999, 11, 2069.	6.6	0

#	Article	IF	Citations
217	Multivesicular bodies in developing tobacco seed and mung bean are functionally equivalent. Plant Signaling and Behavior, 2012, 7, 450-453.	2.4	0
218	Arabidopsis ENDOMEMBRANE PROTEIN 12 contributes to the endoplasmic reticulum stress response by regulating K/HDEL receptor trafficking. Plant Cell, 2019, , tpc.00913.2018.	6.6	0
219	Identification and characterization of unconventional membrane protein trafficking regulators in Arabidopsis: A genetic approach. Journal of Plant Physiology, 2020, 252, 153229.	3.5	0
220	SCAMP, VSR, and Plant Endocytosis. , 2012, , 217-231.		0
221	SH Domain Proteins in Plants: Roles in Signaling Transduction and Membrane Trafficking. , 2015, , 17-33.		0
222	Polar Protein Exocytosis: Lessons from Plant Pollen Tube. , 2017, , 107-127.		0
223	Genetic Suppressor Screen Using an Inducible FREE1-RNAi Line to Detect ESCRT Genetic Interactors in Arabidopsis thaliana. Methods in Molecular Biology, 2019, 1998, 273-289.	0.9	0
224	Analysis of Membrane Proteins Transport from Endosomal Compartments to Vacuoles. Methods in Molecular Biology, 2020, 2177, 15-21.	0.9	0