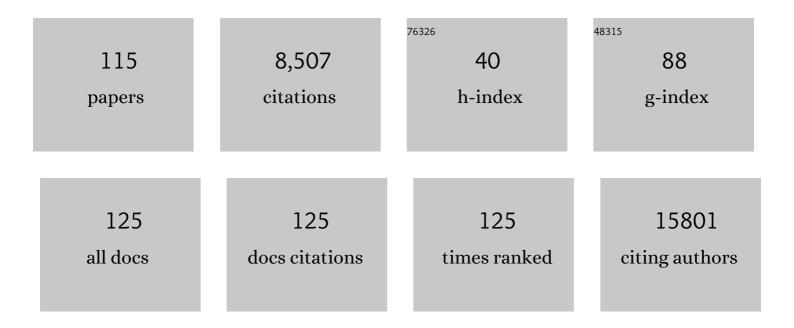
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Development of series of gateway binary vectors, pGWBs, for realizing efficient construction of fusion genes for plant transformation. Journal of Bioscience and Bioengineering, 2007, 104, 34-41.	2.2	1,492
2	Th17 Cell Induction by Adhesion of Microbes to Intestinal Epithelial Cells. Cell, 2015, 163, 367-380.	28.9	846
3	Ectopic colonization of oral bacteria in the intestine drives T _H 1 cell induction and inflammation. Science, 2017, 358, 359-365.	12.6	612
4	Contribution of NAC Transcription Factors to Plant Adaptation to Land. Science, 2014, 343, 1505-1508.	12.6	222
5	SNACâ€As, stressâ€responsive NAC transcription factors, mediate ABAâ€inducible leaf senescence. Plant Journal, 2015, 84, 1114-1123.	5.7	202
6	A Chloroplastic UDP-Glucose Pyrophosphorylase from <i>Arabidopsis</i> Is the Committed Enzyme for the First Step of Sulfolipid Biosynthesis Â. Plant Cell, 2009, 21, 892-909.	6.6	199
7	The Ets transcription factor Spi-B is essential for the differentiation of intestinal microfold cells. Nature Immunology, 2012, 13, 729-736.	14.5	196
8	Multidrug and Toxic Compound Extrusion-Type Transporters Implicated in Vacuolar Sequestration of Nicotine in Tobacco Roots Â. Plant Physiology, 2009, 149, 708-718.	4.8	184
9	Regulation of Root Greening by Light and Auxin/Cytokinin Signaling in <i>Arabidopsis</i> . Plant Cell, 2012, 24, 1081-1095.	6.6	180
10	Mass Transport of Proform of a Kdel-Tailed Cysteine Proteinase (Sh-EP) to Protein Storage Vacuoles by Endoplasmic Reticulum–Derived Vesicle Is Involved in Protein Mobilization in Germinating Seeds. Journal of Cell Biology, 2000, 148, 453-464.	5.2	174
11	Temporal and spatial changes in gene expression, metabolite accumulation and phytohormone content in rice seedlings grown under drought stress conditions. Plant Journal, 2017, 90, 61-78.	5.7	173
12	A Mobile Secretory Vesicle Cluster Involved in Mass Transport from the Golgi to the Plant Cell Exterior Â. Plant Cell, 2009, 21, 1212-1229.	6.6	172
13	EFC/F-BAR proteins and the N-WASP–WIP complex induce membrane curvature-dependent actin polymerization. EMBO Journal, 2008, 27, 2817-2828.	7.8	169
14	Closing Plant Stomata Requires a Homolog of an Aluminum-Activated Malate Transporter. Plant and Cell Physiology, 2010, 51, 354-365.	3.1	159
15	Novel regulation of MHC class II function in B cells. EMBO Journal, 2007, 26, 846-854.	7.8	158
16	The karrikin receptor KAI2 promotes drought resistance in Arabidopsis thaliana. PLoS Genetics, 2017, 13, e1007076.	3.5	140
17	Deficiency of Starch Synthase IIIa and IVb Alters Starch Granule Morphology from Polyhedral to Spherical in Rice Endosperm. Plant Physiology, 2016, 170, 1255-1270.	4.8	131
18	The Rice α-Amylase Glycoprotein Is Targeted from the Golgi Apparatus through the Secretory Pathway to the Plastids Â. Plant Cell. 2009. 21. 2844-2858.	6.6	128

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19	Subcellular membrane curvature mediated by the BAR domain superfamily proteins. Seminars in Cell and Developmental Biology, 2010, 21, 340-349.	5.0	126
20	Membrane-anchored prolyl hydroxylase with an export signal from the endoplasmic reticulum. Plant Journal, 2004, 41, 81-94.	5.7	120
21	Lysine Decarboxylase Catalyzes the First Step of Quinolizidine Alkaloid Biosynthesis and Coevolved with Alkaloid Production in Leguminosae. Plant Cell, 2012, 24, 1202-1216.	6.6	115
22	Quality control of plant peroxisomes in organ specific manner via autophagy. Journal of Cell Science, 2014, 127, 1161-8.	2.0	105
23	Protein Aggregates are Transported to Vacuoles by Macroautophagic Mechanism in Nutrient-Starved Plant Cells. Autophagy, 2006, 2, 96-106.	9.1	100
24	Photosynthesis of Root Chloroplasts Developed in Arabidopsis Lines Overexpressing GOLDEN2-LIKE Transcription Factors. Plant and Cell Physiology, 2013, 54, 1365-1377.	3.1	94
25	A Novel Plasma Membrane-Anchored Protein Regulates Xylem Cell-Wall Deposition through Microtubule-Dependent Lateral Inhibition of Rho GTPase Domains. Current Biology, 2017, 27, 2522-2528.e4.	3.9	91
26	A whole-cell electron tomography model of vacuole biogenesis in Arabidopsis root cells. Nature Plants, 2019, 5, 95-105.	9.3	89
27	Excessive ammonium assimilation by plastidic glutamine synthetase causes ammonium toxicity in Arabidopsis thaliana. Nature Communications, 2021, 12, 4944.	12.8	87
28	Cotyledon cells of Vigna mungo seedlings use at least two distinct autophagic machineries for degradation of starch granules and cellular components. Journal of Cell Biology, 2001, 154, 973-982.	5.2	86
29	Cytological and Biochemical Analysis of COF1, an Arabidopsis Mutant of an ABC Transporter Gene. Plant and Cell Physiology, 2007, 48, 1524-1533.	3.1	84
30	Role of galactolipid biosynthesis in coordinated development of photosynthetic complexes and thylakoid membranes during chloroplast biogenesis in <scp>A</scp> rabidopsis. Plant Journal, 2013, 73, 250-261.	5.7	76
31	Rhodococcus equi can survive a phagolysosomal environment in macrophages by suppressing acidification of the phagolysosome. Journal of Medical Microbiology, 2005, 54, 1007-1015.	1.8	72
32	Haustorial Hairs Are Specialized Root Hairs That Support Parasitism in the Facultative Parasitic Plant <i>Phtheirospermum japonicum</i> . Plant Physiology, 2016, 170, 1492-1503.	4.8	72
33	Synthesis of High-Molecular-Weight Polyhydroxyalkanoates by Marine Photosynthetic Purple Bacteria. PLoS ONE, 2016, 11, e0160981.	2.5	71
34	Mapping of the basic aminoâ€acid residues responsible for tubulation and cellular protrusion by the EFC/Fâ€BAR domain of pacsin2/Syndapin II. FEBS Letters, 2010, 584, 1111-1118.	2.8	66
35	Comparative functional analyses of DWARF14 and KARRIKIN INSENSITIVEÂ2 in drought adaptation of <i>Arabidopsis thaliana</i> . Plant Journal, 2020, 103, 111-127.	5.7	58
36	Cargo sorting zones in the trans-Golgi network visualized by super-resolution confocal live imaging microscopy in plants. Nature Communications, 2021, 12, 1901.	12.8	57

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37	Specific role of phosphatidylglycerol and functional overlaps with other thylakoid lipids in Arabidopsis chloroplast biogenesis. Plant Cell Reports, 2015, 34, 631-642.	5.6	54
38	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
39	A Rho-actin signaling pathway shapes cell wall boundaries in Arabidopsis xylem vessels. Nature Communications, 2019, 10, 468.	12.8	52
40	Liquid Crystalline Granules Align in a Hierarchical Structure To Produce Spider Dragline Microfibrils. Biomacromolecules, 2017, 18, 1350-1355.	5.4	49
41	Characterization of Shikonin Derivative Secretion in Lithospermum erythrorhizon Hairy Roots as a Model of Lipid-Soluble Metabolite Secretion from Plants. Frontiers in Plant Science, 2016, 7, 1066.	3.6	44
42	Wound-inducible WUSCHEL-RELATED HOMEOBOX 13 is required for callus growth and organ reconnection. Plant Physiology, 2022, 188, 425-441.	4.8	44
43	Oligouridylate Binding Protein 1b Plays an Integral Role in Plant Heat Stress Tolerance. Frontiers in Plant Science, 2016, 7, 853.	3.6	43
44	Characterization of Arabidopsis CTP:3-Deoxy-d-manno-2-Octulosonate Cytidylyltransferase (CMP-KDO) Tj ETQqC Physiology, 2011, 52, 1832-1843.	0 0 rgBT 3.1	Overlock 10 40
45	Asymmetric cell division of rice zygotes located in embryo sac and produced by in vitro fertilization. Sexual Plant Reproduction, 2010, 23, 211-217.	2.2	38
46	Pleiotropic effect of <i>sigE</i> overâ€expression on cell morphology, photosynthesis and hydrogen production in <i>Synechocystis</i> sp. <scp>PCC</scp> 6803. Plant Journal, 2013, 76, 456-465.	5.7	37
47	Subnuclear gene positioning through lamina association affects copper tolerance. Nature Communications, 2020, 11, 5914.	12.8	37
48	ANGUSTIFOLIA, a plant homolog of CtBP/BARS, functions outside the nucleus. Plant Journal, 2011, 68, 788-799.	5.7	34
49	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. PLoS Biology, 2019, 17, e3000560.	5.6	34
50	Determination of growth stages and metabolic profiles in <i>Brachypodium distachyon</i> for comparison of developmental context with Triticeae crops. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150964.	2.6	33
51	The <i>Arabidopsis</i> NRT1/PTR FAMILY protein NPF7.3/NRT1.5 is an indole-3-butyric acid transporter involved in root gravitropism. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31500-31509.	7.1	32
52	A unique mode of keratinocyte death requires intracellular acidification. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	29
53	RECG Maintains Plastid and Mitochondrial Genome Stability by Suppressing Extensive Recombination between Short Dispersed Repeats. PLoS Genetics, 2015, 11, e1005080.	3.5	27
54	Stress granule formation is induced by a threshold temperature rather than a temperature difference in Arabidopsis. Journal of Cell Science, 2018, 131, .	2.0	27

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55	Keeping the shape of plant tissue for visualizing metabolite features in segmentation and correlation analysis of imaging mass spectrometry in Asparagus officinalis. Metabolomics, 2019, 15, 24.	3.0	26
56	Immunohistochemical observation of indole-3-acetic acid at the IAA synthetic maize coleoptile tips. Plant Signaling and Behavior, 2011, 6, 2013-2022.	2.4	25
57	Top-down Metabolomic Approaches for Nitrogen-Containing Metabolites. Analytical Chemistry, 2017, 89, 2698-2703.	6.5	25
58	Chloroplast aggregation during the cold-positioning response in the liverwort Marchantia polymorpha. Journal of Plant Research, 2017, 130, 1061-1070.	2.4	25
59	Abscisic Acid Acts as a Regulator of Molecular Trafficking through Plasmodesmata in the Moss <i>Physcomitrella patens</i> . Plant and Cell Physiology, 2019, 60, 738-751.	3.1	25
60	Cytosolic GLUTAMINE SYNTHETASE1;1 Modulates Metabolism and Chloroplast Development in Roots. Plant Physiology, 2020, 182, 1894-1909.	4.8	25
61	Protonema of the moss Funaria hygrometrica can function as a lead (Pb) adsorbent. PLoS ONE, 2017, 12, e0189726.	2.5	25
62	Plasma Membrane Aquaporin AqpZ Protein Is Essential for Glucose Metabolism during Photomixotrophic Growth of Synechocystis sp. PCC 6803. Journal of Biological Chemistry, 2011, 286, 25224-25235.	3.4	23
63	Wide-Range High-Resolution Transmission Electron Microscopy Reveals Morphological and Distributional Changes of Endomembrane Compartments during Log to Stationary Transition of Growth Phase in Tobacco BY-2 Cells. Plant and Cell Physiology, 2014, 55, 1544-1555.	3.1	23
64	The RopGEF KARAPPO Is Essential for the Initiation of Vegetative Reproduction in Marchantia polymorpha. Current Biology, 2019, 29, 3525-3531.e7.	3.9	23
65	Plastid translation is essential for lateral root stem-cell patterning in <i>Arabidopsis thaliana</i> . Biology Open, 2018, 7, .	1.2	22
66	Developmental changes and organelle biogenesis in the reproductive organs of thermogenic skunk cabbage (Symplocarpus renifolius). Journal of Experimental Botany, 2009, 60, 3909-3922.	4.8	21
67	<i>N</i> -Glycomic and Microscopic Subcellular Localization Analyses of NPP1, 2 and 6 Strongly Indicate that <i>trans</i> -Golgi Compartments Participate in the Golgi to Plastid Traffic of Nucleotide Pyrophosphatase/Phosphodiesterases in Rice. Plant and Cell Physiology, 2016, 57, 1610-1628.	3.1	21
68	Reconstructing Plant Cells in 3D by Serial Section Electron Tomography. Methods in Molecular Biology, 2014, 1080, 159-170.	0.9	21
69	Identification of a Membrane-associated Cysteine Protease with Possible Dual Roles in the Endoplasmic Reticulum and Protein Storage Vacuole. Journal of Biological Chemistry, 2001, 276, 742-751.	3.4	20
70	Micro-CT observations of the 3D distribution of calcium oxalate crystals in cotyledons during maturation and germination inLotus miyakojimaeseeds. Microscopy (Oxford, England), 2013, 62, 353-361.	1.5	19
71	The trans-Golgi Network and the Golgi Stacks Behave Independently During Regeneration After Brefeldin A Treatment in Tobacco BY-2 Cells. Plant and Cell Physiology, 2017, 58, 811-821.	3.1	19
72	VISUAL-CC system uncovers the role of GSK3 as an orchestrator of vascular cell type ratio in plants. Communications Biology, 2020, 3, 184.	4.4	19

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73	Dimorphic Leaf Development of the Aquatic Plant Callitriche palustris L. Through Differential Cell Division and Expansion. Frontiers in Plant Science, 2020, 11, 269.	3.6	19
74	Metabolomics with ¹⁵ N Labeling for Characterizing Missing Monoterpene Indole Alkaloids in Plants. Analytical Chemistry, 2020, 92, 5670-5675.	6.5	19
75	Five <i><scp>C</scp>yanophora</i> (<scp>C</scp> yanophorales, <scp>G</scp> laucophyta) species delineated based on morphological and molecular data. Journal of Phycology, 2014, 50, 1058-1069.	2.3	18
76	Alternative Oxidase Capacity of Mitochondria in Microsporophylls May Function in Cycad Thermogenesis. Plant Physiology, 2019, 180, 743-756.	4.8	18
77	Three-dimensional reconstructions of haustoria in two parasitic plant species in the Orobanchaceae. Plant Physiology, 2021, 185, 1429-1442.	4.8	17
78	Carotenoids in the eyespot apparatus are required for triggering phototaxis in <scp><i>Euglena gracilis</i></scp> . Plant Journal, 2020, 101, 1091-1102.	5.7	16
79	Carotenoid accumulation in the eyespot apparatus required for phototaxis is independent of chloroplast development in Euglena gracilis. Plant Science, 2020, 298, 110564.	3.6	15
80	Exo- and Endocytotic trafficking of SCAMP2. Plant Signaling and Behavior, 2009, 4, 1196-1198.	2.4	13
81	Delineation of six species of the primitive algal genus Glaucocystis based on in situ ultrastructural characteristics. Scientific Reports, 2016, 6, 29209.	3.3	13
82	Mitochondrial movement during its association with chloroplasts in Arabidopsis thaliana. Communications Biology, 2021, 4, 292.	4.4	13
83	Surface Ornamentation of <i>Cyanophora paradoxa</i> (Cyanophorales, Glaucophyta) Cells as Revealed by Ultra-High Resolution Field Emission Scanning Electron Microscopy. Cytologia, 2014, 79, 119-123.	0.6	11
84	Ultrastructure of the rickettsial endosymbiont "MIDORIKO―in the green alga Carteria cerasiformis as revealed by high-pressure freezing and freeze-substitution fixation. Protoplasma, 2013, 250, 949-953.	2.1	10
85	A Synthetic Multidomain Peptide That Drives a Macropinocytosis-Like Mechanism for Cytosolic Transport of Exogenous Proteins into Plants. Jacs Au, 2022, 2, 223-233.	7.9	10
86	Characterization of Frond and Flower Development and Identification of FT and FD Genes From Duckweed Lemna aequinoctialis Nd. Frontiers in Plant Science, 2021, 12, 697206.	3.6	9
87	Syringic Acid Alleviates Cesium-Induced Growth Defect in Arabidopsis. International Journal of Molecular Sciences, 2020, 21, 9116.	4.1	8
88	Cell wall accumulation of fluorescent proteins derived from a trans-Golgi cisternal membrane marker and paramural bodies in interdigitated Arabidopsis leaf epidermal cells. Protoplasma, 2017, 254, 367-377.	2.1	7
89	A multimodal metabolomics approach using imaging mass spectrometry and liquid chromatography-tandem mass spectrometry for spatially characterizing monoterpene indole alkaloids secreted from roots. Plant Biotechnology, 2021, 38, 305-310.	1.0	7
90	Efficient fluorescence recovery using antifade reagents in correlative light and electron microscopy. Microscopy (Oxford, England), 2019, 68, 417-421.	1.5	6

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91	Spatial metabolomics using imaging mass spectrometry to identify the localization of asparaptine A in & & & & & & & & & & & & & & & & & &	1.0	6
92	Development of high resolution TEM image acquisition system by using high-pressure freezing method. Plant Morphology, 2014, 26, 3-8.	0.1	6
93	Generation and Characterization of Monoclonal Antibodies That Specifically Recognize p65/L-Plastin Isoform but Not T-Plastin Isoform. Bioscience, Biotechnology and Biochemistry, 2006, 70, 1402-1407.	1.3	5
94	Semi-automatic organelle detection on transmission electron microscopic images. Scientific Reports, 2015, 5, 7794.	3.3	5
95	Acclimation process of the chlorophyll <i>d</i> -bearing cyanobacterium <i>Acaryochloris marina</i> to an orange light environment revealed by transcriptomic analysis and electron microscopic observation. Journal of General and Applied Microbiology, 2020, 66, 106-115.	0.7	5
96	High Humidity Causes Abnormalities in the Process of Appressorial Formation of Blumeria graminis f. sp. hordei. Pathogens, 2020, 9, 45.	2.8	5
97	Polarized localization and borate-dependent degradation of the Arabidopsis borate transporter BOR1 in tobacco BY-2 cells. F1000Research, 2013, 2, 185.	1.6	5
98	Morphological and quantitative changes in mitochondria, plastids, and peroxisomes during the log-to-stationary transition of the growth phase in cultured tobacco BY-2 cells. Plant Signaling and Behavior, 2016, 11, e1149669.	2.4	4
99	3D in vivo imaging of the keratin filament network in the mouse stratum granulosum reveals profilaggrin-dependent regulation of keratin bundling. Journal of Dermatological Science, 2019, 94, 346-349.	1.9	3
100	Development of correlative light and electron microscopy to observe green fluorescent protein-labeled organelles embedded in resin using field-emission electron scanning microscope. Plant Morphology, 2016, 28, 15-21.	0.1	3
101	C5-P-02Distribution of intercellular spaces in plant seeds during imbibition and germination observed using X-ray micro-CT. Microscopy (Oxford, England), 2015, 64, i139.2-i139.	1.5	1
102	C2-P-02The ER body in the lateral root cap is involved in mass transport of (K/H)DEL proteins to the vacuole: Using Gigapixel TEM images. Microscopy (Oxford, England), 2015, 64, i123.2-i123.	1.5	1
103	OB-III-1Development of wide-range and high-resolution transmission electron microscope acquisition system and correlative light & electron microscope system: Applications for ultrastructural analyses of intracellular compartments and trafficking pathways in plant growth and development. Microscopy (Oxford, England), 2016, 65, i13,1-i13.	1.5	1
104	Protective Effect of OKâ€432 on Mice against Endotoxemia and Infection with <i>Pseudomonas aeruginosa</i> and <i>Salmonella enteritidis</i> . Microbiology and Immunology, 2001, 45, 425-432.	1.4	0
105	The RopGEF KARAPPO is Essential for the Initiation of Vegetative Reproduction in Marchantia. SSRN Electronic Journal, 0, , .	0.4	Ο
106	Various biological phenomena to be observed with electron microscopy. Plant Morphology, 2019, 31, 1-2.	0.1	0
107	Electron microscopy of plant samples by using high-pressure freezing/freeze substitution method. Plant Morphology, 2019, 31, 25-29.	0.1	0
108	Latest microscope technique for plant biology; to obtain ultrastructure, molecular mechanism, and biological function. Plant Morphology, 2020, 32, 1-2.	0.1	0

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109	New methods for capturing life phenomena using scanning electron microscopy. Plant Morphology, 2020, 32, 3-9.	0.1	0
110	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
111	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
112	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
113	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
114	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
115	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		Ο