Byung-Ho Kang

List of Publications by Year
in descending order

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77 papers	4,377 citations	101543 36 h-index	114465 63 g-index
84 all docs	84 docs citations	84 times ranked	6094 citing authors

#	Article	IF	Citations
1	Electron Tomography of RabA4bâ€•and PIâ€4Kî²1â€Labeled Trans Golgi Network Compartments in Arabidopsis. Traffic, 2011, 12, 313-329.	2.7	246
2	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
3	Three-Dimensional Analysis of Syncytial-Type Cell Plates during Endosperm Cellularization Visualized by High Resolution Electron Tomography[W]. Plant Cell, 2001, 13, 2033-2051.	6.6	175
4	Nanoscale Architecture of Endoplasmic Reticulum Export Sites and of Golgi Membranes as Determined by Electron Tomography Â. Plant Physiology, 2008, 147, 1454-1468.	4.8	168
5	Members of the Arabidopsis Dynamin-Like Gene Family, ADL1, Are Essential for Plant Cytokinesis and Polarized Cell Growth[W]. Plant Cell, 2003, 15, 899-913.	6.6	159
6	Modular enzyme assembly for enhanced cascade biocatalysis and metabolic flux. Nature Communications, 2019, 10, 4248.	12.8	158
7	Auxin-Callose-Mediated Plasmodesmal Gating Is Essential for Tropic Auxin Gradient Formation and Signaling. Developmental Cell, 2014, 28, 132-146.	7.0	155
8	Callose deposition in the phloem plasmodesmata and inhibition of phloem transport in citrus leaves infected with â€œCandidatus Liberibacter asiaticusâ€• Protoplasma, 2012, 249, 687-697.	2.1	153
9	Mitochondrial endonuclease G mediates breakdown of paternal mitochondria upon fertilization. Science, 2016, 353, 394-399.	12.6	148
10	Statolith Sedimentation Kinetics and Force Transduction to the Cortical Endoplasmic Reticulum in Gravity-SensingArabidopsisColumella Cells Â. Plant Cell, 2009, 21, 843-860.	6.6	147
11	Identification and characterization of COPIa- and COPIb-type vesicle classes associated with plant and algal Golgi. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 163-168.	7.1	131
12	Caenorhabditis elegans drp-1 and fis-2 Regulate Distinct Cell-Death Execution Pathways Downstream of ced-3 and Independent of ced-9. Molecular Cell, 2008, 31, 586-597.	9.7	128
13	Nuclear Pore Permeabilization Is a Convergent Signaling Event in Effector-Triggered Immunity. Cell, 2016, 166, 1526-1538.e11.	28.9	128
14	â€˜Ca. Liberibacter asiaticusâ€™ Carries an Excision Plasmid Prophage and a Chromosomally Integrated Prophage That Becomes Lytic in Plant Infections. Molecular Plant-Microbe Interactions, 2011, 24, 458-468.	2.6	107
15	The Arabidopsis Cell Plate-Associated Dynamin-Like Protein, ADL1Ap, Is Required for Multiple Stages of Plant Growth and Development. Plant Physiology, 2001, 126, 47-68.	4.8	103
16	Miniature1-Encoded Cell Wall Invertase Is Essential for Assembly and Function of Wall-in-Growth in the Maize Endosperm Transfer Cell Â Â. Plant Physiology, 2009, 151, 1366-1376.	4.8	90
17	A whole-cell electron tomography model of vacuole biogenesis in Arabidopsis root cells. Nature Plants, 2019, 5, 95-105.	9.3	89
18	ER-to-Golgi transport by COPII vesicles in Arabidopsis involves a ribosome-excluding scaffold that is transferred with the vesicles to the Golgi matrix. Protoplasma, 2008, 234, 51-64.	2.1	88

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19	The dynamin-like protein ADL1C is essential for plasma membrane maintenance during pollen maturation. Plant Journal, 2003, 35, 1-15.	5.7	86
20	Overexpression of Arabidopsis Plasmodesmata Germin-Like Proteins Disrupts Root Growth and Development Â. Plant Cell, 2012, 24, 3630-3648.	6.6	85
21	Retention mechanisms for ER and Golgi membrane proteins. Trends in Plant Science, 2014, 19, 508-515.	8.8	83
22	Auxin-Mediated Ribosomal Biogenesis Regulates Vacuolar Trafficking inArabidopsisÂ. Plant Cell, 2010, 22, 143-158.	6.6	82
23	CED-1, CED-7, and TTR-52 Regulate Surface Phosphatidylserine Expression on Apoptotic and Phagocytic Cells. Current Biology, 2012, 22, 1267-1275.	3.9	81
24	Cisâ€Golgi Cisternal Assembly and Biosynthetic Activation Occur Sequentially in Plants and Algae. Traffic, 2013, 14, 551-567.	2.7	75
25	Electron Microscopy and High-Pressure Freezing of Arabidopsis. Methods in Cell Biology, 2010, 96, 259-283.	1.1	70
26	Conserved Functions of the MATE Transporter BIG EMBRYO1 in Regulation of Lateral Organ Size and Initiation Rate. Plant Cell, 2015, 27, 2288-2300.	6.6	66
27	Three-Dimensional Analysis of Chloroplast Structures Associated with Virus Infection. Plant Physiology, 2018, 176, 282-294.	4.8	62
28	The cyclic nucleotide gated cation channel AtCNGC10 traffics from the ER via Golgi vesicles to the plasma membrane of Arabidopsis root and leaf cells. BMC Plant Biology, 2007, 7, 48.	3.6	58
29	Leishmania parasitophorous vacuoles interact continuously with the host cell's endoplasmic reticulum; parasitophorous vacuoles are hybrid compartments. Cellular Microbiology, 2010, 12, 1480-1494.	2.1	58
30	A distinct class of vesicles derived from the transâ€Golgi mediates secretion of xylogalacturonan in the root border cell. Plant Journal, 2017, 92, 596-610.	5.7	56
31	Dietary fatty acids promote lipid droplet diversity through seipin enrichment in an ER subdomain. Nature Communications, 2019, 10, 2902.	12.8	53
32	Defective chloroplast development inhibits maintenance of normal levels of abscisic acid in a mutant of the Arabidopsis <scp>RH</scp>3 <scp>DEAD</scp>â€box protein during early postâ€germination growth. Plant Journal, 2013, 73, 720-732.	5.7	48
33	Protein Disulfide Isomerase-2 of Arabidopsis Mediates Protein Folding and Localizes to Both the Secretory Pathway and Nucleus, Where It Interacts with Maternal Effect Embryo Arrest Factor. Molecules and Cells, 2011, 32, 459-476.	2.6	47
34	Postmeiotic development of pollen surface layers requires two Arabidopsis ABCG-type transporters. Plant Cell Reports, 2016, 35, 1863-1873.	5.6	47
35	Friendly mediates membrane depolarization-induced mitophagy in Arabidopsis. Current Biology, 2021, 31, 1931-1944.e4.	3.9	47
36	Kinetics and specificity of paternal mitochondrial elimination in Caenorhabditis elegans. Nature Communications, 2016, 7, 12569.	12.8	43

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37	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
38	Functional characterization of Arabidopsis thaliana isopropylmalate dehydrogenases reveals their important roles in gametophyte development. New Phytologist, 2011, 189, 160-175.	7.3	39
39	Thylakoid-Bound Polysomes and a Dynamin-Related Protein, FZL, Mediate Critical Stages of the Linear Chloroplast Biogenesis Program in Greening Arabidopsis Cotyledons. Plant Cell, 2018, 30, 1476-1495.	6.6	39
40	Arabidopsis seedling establishment under waterlogging requires ABCG5â€mediated formation of a dense cuticle layer. New Phytologist, 2021, 229, 156-172.	7.3	33
41	Shared elements of host-targeting pathways among apicomplexan parasites of differing lifestyles. Cellular Microbiology, 2015, 17, 1618-1639.	2.1	32
42	AtPGL3 is an Arabidopsis BURP domain protein that is localized to the cell wall and promotes cell enlargement. Frontiers in Plant Science, 2015, 6, 412.	3.6	31
43	Acute heart failure with cardiomyocyte atrophy induced in adult mice by ablation of cardiac myosin light chain kinase. Cardiovascular Research, 2016, 111, 34-43.	3.8	31
44	Plant and animal chromatin three-dimensional organization: similar structures but different functions. Journal of Experimental Botany, 2020, 71, 5119-5128.	4.8	29
45	A glossary of plant cell structures: Current insights and future questions. Plant Cell, 2022, 34, 10-52.	6.6	27
46	Bcl-2 Proteins EGL-1 and CED-9 Do Not Regulate Mitochondrial Fission or Fusion in Caenorhabditis elegans. Current Biology, 2009, 19, 768-773.	3.9	24
47	Discovery of Genes Expressed in Basal Endosperm Transfer Cells in Maize Using 454 Transcriptome Sequencing. Plant Molecular Biology Reporter, 2011, 29, 835-847.	1.8	23
48	Unconventional Protein Secretion in Plants. Methods in Molecular Biology, 2016, 1459, 47-63.	0.9	22
49	Electron tomography of plant organelles and the outlook for correlative microscopic approaches. New Phytologist, 2019, 223, 1756-1761.	7.3	21
50	Reconstructing Plant Cells in 3D by Serial Section Electron Tomography. Methods in Molecular Biology, 2014, 1080, 159-170.	0.9	21
51	Spatio-temporal analysis of coding and long noncoding transcripts during maize endosperm development. Scientific Reports, 2017, 7, 3838.	3.3	19
52	The disassembly of lipid droplets in Chlamydomonas. New Phytologist, 2021, 231, 1359-1364.	7.3	19
53	Adaptive expansion of the maize maternally expressed gene (Meg) family involves changes in expression patterns and protein secondary structures of its members. BMC Plant Biology, 2014, 14, 204.	3.6	16
54	High-Pressure Freezing and Low-Temperature Processing of Plant Tissue Samples for Electron Microscopy. Methods in Molecular Biology, 2014, 1080, 147-157.	0.9	16

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55	The phosphatidylethanolamine-binding protein DTH1 mediates degradation of lipid droplets in Chlamydomonas reinhardtii. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23131-23139.	7.1	14
56	Threeâ€dimensional reconstruction and comparison of vacuolar membranes in response to viral infection. Journal of Integrative Plant Biology, 2021, 63, 353-364.	8.5	14
57	The Arabidopsis Protein Disulfide Isomerase Subfamily M Isoform, PDI9, Localizes to the Endoplasmic Reticulum and Influences Pollen Viability and Proper Formation of the Pollen Exine During Heat Stress. Frontiers in Plant Science, 2020, 11, 610052.	3.6	14
58	Shrinkage and fragmentation of thetrans-Golgi network in non-meristematic plant cells. Plant Signaling and Behavior, 2011, 6, 884-886.	2.4	12
59	Semiautomatic Segmentation of Plant Golgi Stacks in Electron Tomograms Using 3dmod. Methods in Molecular Biology, 2017, 1662, 97-104.	0.9	12
60	Electron Tomography Analysis of Thylakoid Assembly and Fission in Chloroplasts of a Single-Cell C4 plant, Bienertia sinuspersici. Scientific Reports, 2019, 9, 19640.	3.3	12
61	Autophagy promotes organelle clearance and organized cell separation of living root cap cells in Arabidopsis thaliana. Development (Cambridge), 2022, 149, .	2.5	12
62	Vaccinia virions deficient in transcription enzymes lack a nucleocapsid. Virology, 2012, 434, 50-58.	2.4	10
63	STEM Tomography Imaging of Hypertrophied Golgi Stacks in Mucilage-Secreting Cells. Methods in Molecular Biology, 2016, 1496, 55-62.	0.9	10
64	Arabidopsis protein disulfide isomerase-8 is a type I endoplasmic reticulum transmembrane protein with thiol-disulfide oxidase activity. BMC Plant Biology, 2016, 16, 181.	3.6	9
65	A Non-Classical Member of the Protein Disulfide Isomerase Family, PDI7 of Arabidopsis thaliana, Localizes to the cis-Golgi and Endoplasmic Reticulum Membranes. Plant and Cell Physiology, 2017, 58, 1103-1117.	3.1	8
66	Characterization of a Chlamydomonas reinhardtii mutant defective in a maltose transporter. Journal of Plant Biology, 2015, 58, 344-351.	2.1	7
67	Chloroplast thylakoid ascorbate peroxidase PtotAPX plays a key role in chloroplast development by decreasing hydrogen peroxide in Populus tomentosa. Journal of Experimental Botany, 2021, 72, 4333-4354.	4.8	7
68	Correlative Light and Electron Microscopy Imaging of the Plant trans-Golgi Network. Methods in Molecular Biology, 2020, 2177, 59-67.	0.9	7
69	Electron Microscopy Views of Dimorphic Chloroplasts in C4 Plants. Frontiers in Plant Science, 2020, 11, 1020.	3.6	5
70	CrABCA2 Facilitates Triacylglycerol Accumulation in under Nitrogen Starvation. Molecules and Cells, 2020, 43, 48-57.	2.6	5
71	Identification of Long Noncoding RNAs in the Developing Endosperm of Maize. Methods in Molecular Biology, 2019, 1933, 49-65.	0.9	4
72	Accelerated remodeling of the mesophyll-bundle sheath interface in the maize C4 cycle mutant leaves. Scientific Reports, 2022, 12, 5057.	3.3	4

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73	The trans-Golgi sorting and the exocytosis of xylogalacturonan from the root border/border-like cell are conserved among monocot and dicot plant species. Plant Signaling and Behavior, 2018, 13, 1-3.	2.4	3
74	3D Printing of Plant Golgi Stacks from Their Electron Tomographic Models. Methods in Molecular Biology, 2017, 1662, 105-113.	0.9	1
75	Three-Dimensional Analysis of Syncytial-Type Cell Plates during Endosperm Cellularization Visualized by High Resolution Electron Tomography. Plant Cell, 2001, 13, 2033.	6.6	0
76	Electron microscopy analysis of maize basal endosperm transfer cells processed by high-pressure freezing and freeze-substitution. Microscopy and Microanalysis, 2008, 14, 1502-1503.	0.4	0
77	C2-O-02Dimorphic secretory vesicles produced from the Golgi stacks of mucilage secreting root cap cells. Microscopy (Oxford, England), 2015, 64, i65.1-i65.	1.5	0