

Byung-Ho Kang

List of Publications by Citations

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77
papers

3,164
citations

32
h-index

55
g-index

84
ext. papers

3,913
ext. citations

7.8
avg, IF

5.29
L-index

#	Paper	IF	Citations
77	Electron tomography of RabA4b- and PI-4K α -labeled trans Golgi network compartments in Arabidopsis. <i>Traffic</i> , 2011 , 12, 313-29	5.7	196
76	Nanoscale architecture of endoplasmic reticulum export sites and of Golgi membranes as determined by electron tomography. <i>Plant Physiology</i> , 2008 , 147, 1454-68	6.6	142
75	Members of the Arabidopsis dynamin-like gene family, ADL1, are essential for plant cytokinesis and polarized cell growth. <i>Plant Cell</i> , 2003 , 15, 899-913	11.6	139
74	ATG9 regulates autophagosome progression from the endoplasmic reticulum in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E426-E435	11.5	133
73	Three-Dimensional Analysis of Syncytial-Type Cell Plates during Endosperm Cellularization Visualized by High Resolution Electron Tomography. <i>Plant Cell</i> , 2001 , 13, 2033-2051	11.6	131
72	Statolith sedimentation kinetics and force transduction to the cortical endoplasmic reticulum in gravity-sensing Arabidopsis columella cells. <i>Plant Cell</i> , 2009 , 21, 843-60	11.6	115
71	Auxin-callose-mediated plasmodesmal gating is essential for tropic auxin gradient formation and signaling. <i>Developmental Cell</i> , 2014 , 28, 132-46	10.2	113
70	Caenorhabditis elegans drp-1 and fis-2 regulate distinct cell-death execution pathways downstream of ced-3 and independent of ced-9. <i>Molecular Cell</i> , 2008 , 31, 586-597	17.6	113
69	Mitochondrial endonuclease G mediates breakdown of paternal mitochondria upon fertilization. <i>Science</i> , 2016 , 353, 394-9	33.3	107
68	Callose deposition in the phloem plasmodesmata and inhibition of phloem transport in citrus leaves infected with "Candidatus Liberibacter asiaticus". <i>Protoplasma</i> , 2012 , 249, 687-97	3.4	107
67	Identification and characterization of COPIa- and COPIb-type vesicle classes associated with plant and algal Golgi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 163-8	11.5	106
66	The arabidopsis cell plate-associated dynamin-like protein, ADL1Ap, is required for multiple stages of plant growth and development. <i>Plant Physiology</i> , 2001 , 126, 47-68	6.6	96
65	Ta. Liberibacter asiaticus carries an excision plasmid prophage and a chromosomally integrated prophage that becomes lytic in plant infections. <i>Molecular Plant-Microbe Interactions</i> , 2011 , 24, 458-68	3.6	87
64	ER-to-Golgi transport by COPII vesicles in Arabidopsis involves a ribosome-excluding scaffold that is transferred with the vesicles to the Golgi matrix. <i>Protoplasma</i> , 2008 , 234, 51-64	3.4	80
63	Modular enzyme assembly for enhanced cascade biocatalysis and metabolic flux. <i>Nature Communications</i> , 2019 , 10, 4248	17.4	78
62	The dynamin-like protein ADL1C is essential for plasma membrane maintenance during pollen maturation. <i>Plant Journal</i> , 2003 , 35, 1-15	6.9	78
61	Nuclear Pore Permeabilization Is a Convergent Signaling Event in Effector-Triggered Immunity. <i>Cell</i> , 2016 , 166, 1526-1538.e11	56.2	77

60	Auxin-mediated ribosomal biogenesis regulates vacuolar trafficking in Arabidopsis. <i>Plant Cell</i> , 2010 , 22, 143-58	11.6	71
59	Miniature1-encoded cell wall invertase is essential for assembly and function of wall-in-growth in the maize endosperm transfer cell. <i>Plant Physiology</i> , 2009 , 151, 1366-76	6.6	66
58	Retention mechanisms for ER and Golgi membrane proteins. <i>Trends in Plant Science</i> , 2014 , 19, 508-15	13.1	65
57	Cis-Golgi cisternal assembly and biosynthetic activation occur sequentially in plants and algae. <i>Traffic</i> , 2013 , 14, 551-67	5.7	64
56	CED-1, CED-7, and TTR-52 regulate surface phosphatidylserine expression on apoptotic and phagocytic cells. <i>Current Biology</i> , 2012 , 22, 1267-75	6.3	60
55	Overexpression of Arabidopsis plasmodesmata germin-like proteins disrupts root growth and development. <i>Plant Cell</i> , 2012 , 24, 3630-48	11.6	59
54	Electron microscopy and high-pressure freezing of Arabidopsis. <i>Methods in Cell Biology</i> , 2010 , 96, 259-83	1.8	55
53	Leishmania parasitophorous vacuoles interact continuously with the host cell's endoplasmic reticulum; parasitophorous vacuoles are hybrid compartments. <i>Cellular Microbiology</i> , 2010 , 12, 1480-94	3.9	51
52	A whole-cell electron tomography model of vacuole biogenesis in Arabidopsis root cells. <i>Nature Plants</i> , 2019 , 5, 95-105	11.5	49
51	The cyclic nucleotide gated cation channel AtCNGC10 traffics from the ER via Golgi vesicles to the plasma membrane of Arabidopsis root and leaf cells. <i>BMC Plant Biology</i> , 2007 , 7, 48	5.3	48
50	Conserved Functions of the MATE Transporter BIG EMBRYO1 in Regulation of Lateral Organ Size and Initiation Rate. <i>Plant Cell</i> , 2015 , 27, 2288-300	11.6	43
49	Defective chloroplast development inhibits maintenance of normal levels of abscisic acid in a mutant of the Arabidopsis RH3 DEAD-box protein during early post-germination growth. <i>Plant Journal</i> , 2013 , 73, 720-32	6.9	39
48	Kinetics and specificity of paternal mitochondrial elimination in <i>Caenorhabditis elegans</i> . <i>Nature Communications</i> , 2016 , 7, 12569	17.4	36
47	A distinct class of vesicles derived from the trans-Golgi mediates secretion of xylogalacturonan in the root border cell. <i>Plant Journal</i> , 2017 , 92, 596-610	6.9	36
46	Three-Dimensional Analysis of Chloroplast Structures Associated with Virus Infection. <i>Plant Physiology</i> , 2018 , 176, 282-294	6.6	33
45	Dietary fatty acids promote lipid droplet diversity through seipin enrichment in an ER subdomain. <i>Nature Communications</i> , 2019 , 10, 2902	17.4	32
44	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. <i>Molecules and Cells</i> , 2011 , 32, 459-75	3.5	31
43	SH3 Domain-Containing Protein 2 Plays a Crucial Role at the Step of Membrane Tubulation during Cell Plate Formation. <i>Plant Cell</i> , 2017 , 29, 1388-1405	11.6	30

42	Thylakoid-Bound Polysomes and a Dynamin-Related Protein, FZL, Mediate Critical Stages of the Linear Chloroplast Biogenesis Program in Greening Arabidopsis Cotyledons. <i>Plant Cell</i> , 2018 , 30, 1476-1495	11.6	26
41	Functional characterization of Arabidopsis thaliana isopropylmalate dehydrogenases reveals their important roles in gametophyte development. <i>New Phytologist</i> , 2011 , 189, 160-75	9.8	26
40	Shared elements of host-targeting pathways among apicomplexan parasites of differing lifestyles. <i>Cellular Microbiology</i> , 2015 , 17, 1618-39	3.9	25
39	Bcl-2 proteins EGL-1 and CED-9 do not regulate mitochondrial fission or fusion in <i>Caenorhabditis elegans</i> . <i>Current Biology</i> , 2009 , 19, 768-73	6.3	23
38	Acute heart failure with cardiomyocyte atrophy induced in adult mice by ablation of cardiac myosin light chain kinase. <i>Cardiovascular Research</i> , 2016 , 111, 34-43	9.9	23
37	Postmeiotic development of pollen surface layers requires two Arabidopsis ABCG-type transporters. <i>Plant Cell Reports</i> , 2016 , 35, 1863-73	5.1	22
36	Discovery of Genes Expressed in Basal Endosperm Transfer Cells in Maize Using 454 Transcriptome Sequencing. <i>Plant Molecular Biology Reporter</i> , 2011 , 29, 835-847	1.7	20
35	Reconstructing plant cells in 3D by serial section electron tomography. <i>Methods in Molecular Biology</i> , 2014 , 1080, 159-70	1.4	18
34	AtPGL3 is an Arabidopsis BURP domain protein that is localized to the cell wall and promotes cell enlargement. <i>Frontiers in Plant Science</i> , 2015 , 6, 412	6.2	16
33	High-pressure freezing and low-temperature processing of plant tissue samples for electron microscopy. <i>Methods in Molecular Biology</i> , 2014 , 1080, 147-57	1.4	16
32	Plant and animal chromatin three-dimensional organization: similar structures but different functions. <i>Journal of Experimental Botany</i> , 2020 , 71, 5119-5128	7	15
31	Unconventional Protein Secretion in Plants. <i>Methods in Molecular Biology</i> , 2016 , 1459, 47-63	1.4	14
30	Friendly mediates membrane depolarization-induced mitophagy in Arabidopsis. <i>Current Biology</i> , 2021 , 31, 1931-1944.e4	6.3	13
29	Arabidopsis seedling establishment under waterlogging requires ABCG5-mediated formation of a dense cuticle layer. <i>New Phytologist</i> , 2021 , 229, 156-172	9.8	13
28	Spatio-temporal analysis of coding and long noncoding transcripts during maize endosperm development. <i>Scientific Reports</i> , 2017 , 7, 3838	4.9	12
27	Adaptive expansion of the maize maternally expressed gene (Meg) family involves changes in expression patterns and protein secondary structures of its members. <i>BMC Plant Biology</i> , 2014 , 14, 204	5.3	12
26	Shrinkage and fragmentation of the trans-Golgi network in non-meristematic plant cells. <i>Plant Signaling and Behavior</i> , 2011 , 6, 884-6	2.5	11
25	Electron tomography of plant organelles and the outlook for correlative microscopic approaches. <i>New Phytologist</i> , 2019 , 223, 1756-1761	9.8	10

24	Vaccinia virions deficient in transcription enzymes lack a nucleocapsid. <i>Virology</i> , 2012 , 434, 50-8	3.6	10
23	Semiautomatic Segmentation of Plant Golgi Stacks in Electron Tomograms Using 3dmod. <i>Methods in Molecular Biology</i> , 2017 , 1662, 97-104	1.4	8
22	The phosphatidylethanolamine-binding protein DTH1 mediates degradation of lipid droplets in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 23131-23139	11.5	8
21	STEM Tomography Imaging of Hypertrophied Golgi Stacks in Mucilage-Secreting Cells. <i>Methods in Molecular Biology</i> , 2016 , 1496, 55-62	1.4	7
20	A Non-Classical Member of the Protein Disulfide Isomerase Family, PDI7 of Arabidopsis thaliana, Localizes to the cis-Golgi and Endoplasmic Reticulum Membranes. <i>Plant and Cell Physiology</i> , 2017 , 58, 1103-1117	4.9	6
19	Characterization of a Chlamydomonas reinhardtii mutant defective in a maltose transporter 2015 , 58, 344-351		5
18	Arabidopsis protein disulfide isomerase-8 is a type I endoplasmic reticulum transmembrane protein with thiol-disulfide oxidase activity. <i>BMC Plant Biology</i> , 2016 , 16, 181	5.3	5
17	Three-dimensional reconstruction and comparison of vacuolar membranes in response to viral infection. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 353-364	8.3	5
16	Chloroplast thylakoid ascorbate peroxidase PtotAPX plays a key role in chloroplast development by decreasing hydrogen peroxide in Populus tomentosa. <i>Journal of Experimental Botany</i> , 2021 , 72, 4333-4334	7.4	4
15	The disassembly of lipid droplets in Chlamydomonas. <i>New Phytologist</i> , 2021 , 231, 1359-1364	9.8	4
14	Electron Tomography Analysis of Thylakoid Assembly and Fission in Chloroplasts of a Single-Cell C4 plant, Bienertia sinuspersici. <i>Scientific Reports</i> , 2019 , 9, 19640	4.9	4
13	A glossary of plant cell structures: Current insights and future questions. <i>Plant Cell</i> , 2021 ,	11.6	3
12	Electron Microscopy Views of Dimorphic Chloroplasts in C4 Plants. <i>Frontiers in Plant Science</i> , 2020 , 11, 1020	6.2	3
11	Correlative Light and Electron Microscopy Imaging of the Plant trans-Golgi Network. <i>Methods in Molecular Biology</i> , 2020 , 2177, 59-67	1.4	3
10	The trans-Golgi sorting and the exocytosis of xylogalacturonan from the root border/border-like cell are conserved among monocot and dicot plant species. <i>Plant Signaling and Behavior</i> , 2018 , 13, e1469362	2.5	2
9	CrABCA2 Facilitates Triacylglycerol Accumulation in under Nitrogen Starvation. <i>Molecules and Cells</i> , 2020 , 43, 48-57	3.5	2
8	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. <i>Frontiers in Plant Science</i> , 2020 , 11, 610052	6.2	2
7	Identification of Long Noncoding RNAs in the Developing Endosperm of Maize. <i>Methods in Molecular Biology</i> , 2019 , 1933, 49-65	1.4	1

6	Friendly regulates membrane depolarization induced mitophagy in Arabidopsis	1
5	C2-O-02 Dimorphic secretory vesicles produced from the Golgi stacks of mucilage secreting root cap cells. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i65.1-i65	1.3
4	3D Printing of Plant Golgi Stacks from Their Electron Tomographic Models. <i>Methods in Molecular Biology</i> , 2017 , 1662, 105-113	1.4
3	Electron microscopy analysis of maize basal endosperm transfer cells processed by high-pressure freezing and freeze-substitution. <i>Microscopy and Microanalysis</i> , 2008 , 14, 1502-1503	0.5
2	Three-Dimensional Analysis of Syncytial-Type Cell Plates during Endosperm Cellularization Visualized by High Resolution Electron Tomography. <i>Plant Cell</i> , 2001 , 13, 2033	11.6
1	Accelerated remodeling of the mesophyll-bundle sheath interface in the maize C4 cycle mutant leaves.. <i>Scientific Reports</i> , 2022 , 12, 5057	4.9