

Byung-Ho Kang

List of Publications by Year in descending order

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77
papers

4,377
citations

101384

36
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114278

63
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84
all docs

84
docs citations

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times ranked

6094
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron Tomography of RabA4b and Plâ€4K ¹ -Labeled <i>Trans</i> Golgi Network Compartments in <i>Arabidopsis</i> . <i>Traffic</i> , 2011, 12, 313-329.	1.3	246
2	ATG9 regulates autophagosome progression from the endoplasmic reticulum in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E426-E435.	3.3	200
3	Three-Dimensional Analysis of Syncytial-Type Cell Plates during Endosperm Cellularization Visualized by High Resolution Electron Tomography[W]. <i>Plant Cell</i> , 2001, 13, 2033-2051.	3.1	175
4	Nanoscale Architecture of Endoplasmic Reticulum Export Sites and of Golgi Membranes as Determined by Electron Tomography. <i>Plant Physiology</i> , 2008, 147, 1454-1468.	2.3	168
5	Members of the Arabidopsis Dynamin-Like Gene Family, ADL1, Are Essential for Plant Cytokinesis and Polarized Cell Growth[W]. <i>Plant Cell</i> , 2003, 15, 899-913.	3.1	159
6	Modular enzyme assembly for enhanced cascade biocatalysis and metabolic flux. <i>Nature Communications</i> , 2019, 10, 4248.	5.8	158
7	Auxin-Callose-Mediated Plasmodesmal Gating Is Essential for Tropic Auxin Gradient Formation and Signaling. <i>Developmental Cell</i> , 2014, 28, 132-146.	3.1	155
8	Callose deposition in the phloem plasmodesmata and inhibition of phloem transport in citrus leaves infected with <i>Candidatus Liberibacter asiaticus</i> . <i>Protoplasma</i> , 2012, 249, 687-697.	1.0	153
9	Mitochondrial endonuclease G mediates breakdown of paternal mitochondria upon fertilization. <i>Science</i> , 2016, 353, 394-399.	6.0	148
10	Stalolith Sedimentation Kinetics and Force Transduction to the Cortical Endoplasmic Reticulum in Gravity-Sensing <i>Arabidopsis</i> Columella Cells. <i>Plant Cell</i> , 2009, 21, 843-860.	3.1	147
11	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, 163-168.	3.3	131
12	<i>Caenorhabditis elegans</i> 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.	4.5	128
13	Nuclear Pore Permeabilization Is a Convergent Signaling Event in Effector-Triggered Immunity. <i>Cell</i> , 2016, 166, 1526-1538.e11.	13.5	128
14	<i>Ca.</i> <i>Liberibacter asiaticus</i> ™ Carries an Excision Plasmid Prophage and a Chromosomally Integrated Prophage That Becomes Lytic in Plant Infections. <i>Molecular Plant-Microbe Interactions</i> , 2011, 24, 458-468.	1.4	107
15	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.	2.3	103
16	<i>Miniature1</i> -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, 1366-1376.	2.3	90
17	A whole-cell electron tomography model of vacuole biogenesis in Arabidopsis root cells. <i>Nature Plants</i> , 2019, 5, 95-105.	4.7	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. <i>Protoplasma</i> , 2008, 234, 51-64.	1.0	88

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19	The dynamin-like protein ADL1C is essential for plasma membrane maintenance during pollen maturation. <i>Plant Journal</i> , 2003, 35, 1-15.	2.8	86
20	Overexpression of <i>Arabidopsis</i> Plasmodesmata Germin-Like Proteins Disrupts Root Growth and Development. <i>Plant Cell</i> , 2012, 24, 3630-3648.	3.1	85
21	Retention mechanisms for ER and Golgi membrane proteins. <i>Trends in Plant Science</i> , 2014, 19, 508-515.	4.3	83
22	Auxin-Mediated Ribosomal Biogenesis Regulates Vacuolar Trafficking in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2010, 22, 143-158.	3.1	82
23	CED-1, CED-7, and TTR-52 Regulate Surface Phosphatidylserine Expression on Apoptotic and Phagocytic Cells. <i>Current Biology</i> , 2012, 22, 1267-1275.	1.8	81
24	<i>Cis</i> -Golgi Cisternal Assembly and Biosynthetic Activation Occur Sequentially in Plants and Algae. <i>Traffic</i> , 2013, 14, 551-567.	1.3	75
25	Electron Microscopy and High-Pressure Freezing of <i>Arabidopsis</i> . <i>Methods in Cell Biology</i> , 2010, 96, 259-283.	0.5	70
26	Conserved Functions of the MATE Transporter BIG EMBRYO1 in Regulation of Lateral Organ Size and Initiation Rate. <i>Plant Cell</i> , 2015, 27, 2288-2300.	3.1	66
27	Three-Dimensional Analysis of Chloroplast Structures Associated with Virus Infection. <i>Plant Physiology</i> , 2018, 176, 282-294.	2.3	62
28	The cyclic nucleotide gated cation channel AtCNGC10 traffics from the ER via Golgi vesicles to the plasma membrane of <i>Arabidopsis</i> root and leaf cells. <i>BMC Plant Biology</i> , 2007, 7, 48.	1.6	58
29	<i>Leishmania parasitophorous</i> vacuoles interact continuously with the host cell's endoplasmic reticulum; parasitophorous vacuoles are hybrid compartments. <i>Cellular Microbiology</i> , 2010, 12, 1480-1494.	1.1	58
30	A distinct class of vesicles derived from the <i>trans</i> -Golgi mediates secretion of xylogalacturonan in the root border cell. <i>Plant Journal</i> , 2017, 92, 596-610.	2.8	56
31	Dietary fatty acids promote lipid droplet diversity through seipin enrichment in an ER subdomain. <i>Nature Communications</i> , 2019, 10, 2902.	5.8	53
32	Defective chloroplast development inhibits maintenance of normal levels of abscisic acid in a mutant of the <i>Arabidopsis</i> <i>RH3</i> <i>DEAD</i> box protein during early post-germination growth. <i>Plant Journal</i> , 2013, 73, 720-732.	2.8	48
33	Protein Disulfide Isomerase-2 of <i>Arabidopsis</i> 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, 459-476.	1.0	47
34	Postmeiotic development of pollen surface layers requires two <i>Arabidopsis</i> ABCG-type transporters. <i>Plant Cell Reports</i> , 2016, 35, 1863-1873.	2.8	47
35	Friendly mediates membrane depolarization-induced mitophagy in <i>Arabidopsis</i> . <i>Current Biology</i> , 2021, 31, 1931-1944.e4.	1.8	47
36	Kinetics and specificity of paternal mitochondrial elimination in <i>Caenorhabditis elegans</i> . <i>Nature Communications</i> , 2016, 7, 12569.	5.8	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. <i>Plant Cell</i> , 2017, 29, 1388-1405.	3.1	42
38	Functional characterization of <i>Arabidopsis thaliana</i> isopropylmalate dehydrogenases reveals their important roles in gametophyte development. <i>New Phytologist</i> , 2011, 189, 160-175.	3.5	39
39	Thylakoid-Bound Polysomes and a Dynamin-Related Protein, FZL, Mediate Critical Stages of the Linear Chloroplast Biogenesis Program in Greening <i>Arabidopsis</i> Cotyledons. <i>Plant Cell</i> , 2018, 30, 1476-1495.	3.1	39
40	<i>Arabidopsis</i> seedling establishment under waterlogging requires ABCG5-mediated formation of a dense cuticle layer. <i>New Phytologist</i> , 2021, 229, 156-172.	3.5	33
41	Shared elements of host-targeting pathways among apicomplexan parasites of differing lifestyles. <i>Cellular Microbiology</i> , 2015, 17, 1618-1639.	1.1	32
42	AtPGL3 is an <i>Arabidopsis</i> BURP domain protein that is localized to the cell wall and promotes cell enlargement. <i>Frontiers in Plant Science</i> , 2015, 6, 412.	1.7	31
43	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.	1.8	31
44	Plant and animal chromatin three-dimensional organization: similar structures but different functions. <i>Journal of Experimental Botany</i> , 2020, 71, 5119-5128.	2.4	29
45	A glossary of plant cell structures: Current insights and future questions. <i>Plant Cell</i> , 2022, 34, 10-52.	3.1	27
46	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, 768-773.	1.8	24
47	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.	1.0	23
48	Unconventional Protein Secretion in Plants. <i>Methods in Molecular Biology</i> , 2016, 1459, 47-63.	0.4	22
49	Electron tomography of plant organelles and the outlook for correlative microscopic approaches. <i>New Phytologist</i> , 2019, 223, 1756-1761.	3.5	21
50	Reconstructing Plant Cells in 3D by Serial Section Electron Tomography. <i>Methods in Molecular Biology</i> , 2014, 1080, 159-170.	0.4	21
51	Spatio-temporal analysis of coding and long noncoding transcripts during maize endosperm development. <i>Scientific Reports</i> , 2017, 7, 3838.	1.6	19
52	The disassembly of lipid droplets in <i>Chlamydomonas</i> . <i>New Phytologist</i> , 2021, 231, 1359-1364.	3.5	19
53	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.	1.6	16
54	High-Pressure Freezing and Low-Temperature Processing of Plant Tissue Samples for Electron Microscopy. <i>Methods in Molecular Biology</i> , 2014, 1080, 147-157.	0.4	16

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55	The phosphatidylethanolamine-binding protein DTH1 mediates degradation of lipid droplets in <i>Chlamydomonas reinhardtii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23131-23139.	3.3	14
56	Three-dimensional reconstruction and comparison of vacuolar membranes in response to viral infection. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 353-364.	4.1	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. <i>Frontiers in Plant Science</i> , 2020, 11, 610052.	1.7	14
58	Shrinkage and fragmentation of the trans-Golgi network in non-meristematic plant cells. <i>Plant Signaling and Behavior</i> , 2011, 6, 884-886.	1.2	12
59	Semiautomatic Segmentation of Plant Golgi Stacks in Electron Tomograms Using 3dmod. <i>Methods in Molecular Biology</i> , 2017, 1662, 97-104.	0.4	12
60	Electron Tomography Analysis of Thylakoid Assembly and Fission in Chloroplasts of a Single-Cell C4 plant, <i>Bienertia sinuspersici</i> . <i>Scientific Reports</i> , 2019, 9, 19640.	1.6	12
61	Autophagy promotes organelle clearance and organized cell separation of living root cap cells in <i>Arabidopsis thaliana</i> . <i>Development (Cambridge)</i> , 2022, 149, .	1.2	12
62	Vaccinia virions deficient in transcription enzymes lack a nucleocapsid. <i>Virology</i> , 2012, 434, 50-58.	1.1	10
63	STEM Tomography Imaging of Hypertrophied Golgi Stacks in Mucilage-Secreting Cells. <i>Methods in Molecular Biology</i> , 2016, 1496, 55-62.	0.4	10
64	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.	1.6	9
65	A Non-Classical Member of the Protein Disulfide Isomerase Family, PDI7 of <i>Arabidopsis thaliana</i> , Localizes to the cis-Golgi and Endoplasmic Reticulum Membranes. <i>Plant and Cell Physiology</i> , 2017, 58, 1103-1117.	1.5	8
66	Characterization of a <i>Chlamydomonas reinhardtii</i> mutant defective in a maltose transporter. <i>Journal of Plant Biology</i> , 2015, 58, 344-351.	0.9	7
67	Chloroplast thylakoid ascorbate peroxidase PtotAPX plays a key role in chloroplast development by decreasing hydrogen peroxide in <i>Populus tomentosa</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 4333-4354.	2.4	7
68	Correlative Light and Electron Microscopy Imaging of the Plant trans-Golgi Network. <i>Methods in Molecular Biology</i> , 2020, 2177, 59-67.	0.4	7
69	Electron Microscopy Views of Dimorphic Chloroplasts in C4 Plants. <i>Frontiers in Plant Science</i> , 2020, 11, 1020.	1.7	5
70	CrABCA2 Facilitates Triacylglycerol Accumulation in under Nitrogen Starvation. <i>Molecules and Cells</i> , 2020, 43, 48-57.	1.0	5
71	Identification of Long Noncoding RNAs in the Developing Endosperm of Maize. <i>Methods in Molecular Biology</i> , 2019, 1933, 49-65.	0.4	4
72	Accelerated remodeling of the mesophyll-bundle sheath interface in the maize C4 cycle mutant leaves. <i>Scientific Reports</i> , 2022, 12, 5057.	1.6	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. <i>Plant Signaling and Behavior</i> , 2018, 13, 1-3.	1.2	3
74	3D Printing of Plant Golgi Stacks from Their Electron Tomographic Models. <i>Methods in Molecular Biology</i> , 2017, 1662, 105-113.	0.4	1
75	Three-Dimensional Analysis of Syncytial-Type Cell Plates during Endosperm Cellularization Visualized by High Resolution Electron Tomography. <i>Plant Cell</i> , 2001, 13, 2033.	3.1	0
76	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.	0.2	0
77	C2-O-02Dimorphic secretory vesicles produced from the Golgi stacks of mucilage secreting root cap cells. <i>Microscopy (Oxford, England)</i> , 2015, 64, i65.1-i65.	0.7	0