

June M Kwak

List of Publications by Year in descending order

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71
papers

11,481
citations

57631

44
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95083

68
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docs citations

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times ranked

10005
citing authors

#	ARTICLE	IF	CITATIONS
1	NADPH oxidase <i>AtrbohD</i> and <i>AtrbohF</i> genes function in ROS-dependent ABA signaling in Arabidopsis. <i>EMBO Journal</i> , 2003, 22, 2623-2633.	3.5	1,474
2	GUARDCELLSIGNALTRANSDUCTION. <i>Annual Review of Plant Biology</i> , 2001, 52, 627-658.	14.2	1,038
3	Guard cell abscisic acid signalling and engineering drought hardiness in plants. <i>Nature</i> , 2001, 410, 327-330.	13.7	694
4	Activation of Glucosidase via Stress-Induced Polymerization Rapidly Increases Active Pools of Abscisic Acid. <i>Cell</i> , 2006, 126, 1109-1120.	13.5	582
5	CDPKs <i>CPK6</i> and <i>CPK3</i> Function in ABA Regulation of Guard Cell S-Type Anion- and Ca ²⁺ - Permeable Channels and Stomatal Closure. <i>PLoS Biology</i> , 2006, 4, e327.	2.6	523
6	Microarray Expression Analyses of Arabidopsis Guard Cells and Isolation of a Recessive Abscisic Acid Hypersensitive Protein Phosphatase 2C Mutant[W]. <i>Plant Cell</i> , 2004, 16, 596-615.	3.1	508
7	Cytoplasmic Alkalinization Precedes Reactive Oxygen Species Production during Methyl Jasmonate- and Abscisic Acid-Induced Stomatal Closure. <i>Plant Physiology</i> , 2004, 134, 1536-1545.	2.3	429
8	An mRNA Cap Binding Protein, <i>ABH1</i> , Modulates Early Abscisic Acid Signal Transduction in Arabidopsis. <i>Cell</i> , 2001, 106, 477-487.	13.5	414
9	Phosphorylation of the Arabidopsis <i>AtrbohF</i> NADPH oxidase by <i>OST1</i> protein kinase. <i>FEBS Letters</i> , 2009, 583, 2982-2986.	1.3	373
10	MAP kinases <i>MPK9</i> and <i>MPK12</i> are preferentially expressed in guard cells and positively regulate ROS-mediated ABA signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20520-20525.	3.3	368
11	Cameleon calcium indicator reports cytoplasmic calcium dynamics in Arabidopsis guard cells. <i>Plant Journal</i> , 1999, 19, 735-747.	2.8	332
12	The Role of Reactive Oxygen Species in Hormonal Responses. <i>Plant Physiology</i> , 2006, 141, 323-329.	2.3	330
13	Identification of a Receptor-Like Protein Kinase Gene Rapidly Induced by Abscisic Acid, Dehydration, High Salt, and Cold Treatments in Arabidopsis thaliana. <i>Plant Physiology</i> , 1997, 113, 1203-1212.	2.3	222
14	<i>Arabidopsis</i> <i>PUB22</i> and <i>PUB23</i> Are Homologous U-Box E3 Ubiquitin Ligases That Play Combinatory Roles in Response to Drought Stress. <i>Plant Cell</i> , 2008, 20, 1899-1914.	3.1	221
15	Border Control—A Membrane-Linked Interactome of <i>Arabidopsis</i> . <i>Science</i> , 2014, 344, 711-716.	6.0	213
16	Disruption of a Guard Cell-Expressed Protein Phosphatase 2A Regulatory Subunit, <i>RCN1</i> , Confers Abscisic Acid Insensitivity in Arabidopsis. <i>Plant Cell</i> , 2002, 14, 2849-2861.	3.1	192
17	Overexpression of the <i>AtGluR2</i> Gene Encoding an Arabidopsis Homolog of Mammalian Glutamate Receptors Impairs Calcium Utilization and Sensitivity to Ionic Stress in Transgenic Plants. <i>Plant and Cell Physiology</i> , 2001, 42, 74-84.	1.5	189
18	Phosphatidylinositol 3- and 4-Phosphate Are Required for Normal Stomatal Movements. <i>Plant Cell</i> , 2002, 14, 2399-2412.	3.1	186

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19	The Identity of Plant Glutamate Receptors. <i>Science</i> , 2001, 292, 1486b-1487.	6.0	175
20	Dominant Negative Guard Cell K ⁺ Channel Mutants Reduce Inward-Rectifying K ⁺ Currents and Light-Induced Stomatal Opening in Arabidopsis. <i>Plant Physiology</i> , 2001, 127, 473-485.	2.3	173
21	BRI1-Associated Receptor Kinase 1 Regulates Guard Cell ABA Signaling Mediated by Open Stomata 1 in Arabidopsis. <i>Molecular Plant</i> , 2016, 9, 447-460.	3.9	170
22	Crosstalk between the Circadian Clock and Innate Immunity in Arabidopsis. <i>PLoS Pathogens</i> , 2013, 9, e1003370.	2.1	164
23	Roles of Four Arabidopsis U-Box E3 Ubiquitin Ligases in Negative Regulation of Abscisic Acid-Mediated Drought Stress Responses. <i>Plant Physiology</i> , 2012, 160, 556-568.	2.3	136
24	Arabidopsis Annexins AnnAt1 and AnnAt4 Interact with Each Other and Regulate Drought and Salt Stress Responses. <i>Plant and Cell Physiology</i> , 2010, 51, 1499-1514.	1.5	135
25	A membrane protein / signaling protein interaction network for Arabidopsis version AMPv2. <i>Frontiers in Physiology</i> , 2010, 1, 24.	1.3	131
26	Arabidopsis Glutamate Receptor Homolog3.5 Modulates Cytosolic Ca ²⁺ Level to Counteract Effect of Abscisic Acid in Seed Germination. <i>Plant Physiology</i> , 2015, 167, 1630-1642.	2.3	127
27	POWERDRESS and HDA9 interact and promote histone H3 deacetylation at specific genomic sites in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14858-14863.	3.3	111
28	A Lignin Molecular Brace Controls Precision Processing of Cell Walls Critical for Surface Integrity in Arabidopsis. <i>Cell</i> , 2018, 173, 1468-1480.e9.	13.5	109
29	Calcium-permeable channels in plant cells. <i>FEBS Journal</i> , 2011, 278, 4262-4276.	2.2	103
30	MAPK Cascades in Guard Cell Signal Transduction. <i>Frontiers in Plant Science</i> , 2016, 7, 80.	1.7	100
31	De-regulated expression of the plant glutamate receptor homolog AtGLR3.1 impairs long-term Ca ²⁺ -programmed stomatal closure. <i>Plant Journal</i> , 2009, 58, 437-449.	2.8	98
32	Participation of Endomembrane Cation/H ⁺ Exchanger AtCHX20 in Osmoregulation of Guard Cells. <i>Plant Physiology</i> , 2007, 144, 82-93.	2.3	95
33	Phosphatidylinositol 4,5-bisphosphate is important for stomatal opening. <i>Plant Journal</i> , 2007, 52, 803-816.	2.8	90
34	Generation of Expressed Sequence Tags of Random Root cDNA Clones of Brassica napus by Single-Run Partial Sequencing. <i>Plant Physiology</i> , 1993, 103, 359-370.	2.3	88
35	Localization, Ion Channel Regulation, and Genetic Interactions during Abscisic Acid Signaling of the Nuclear mRNA Cap-Binding Protein, ABH1. <i>Plant Physiology</i> , 2002, 130, 1276-1287.	2.3	82
36	In Situ metabolic analysis of single plant cells by capillary microsampling and electrospray ionization mass spectrometry with ion mobility separation. <i>Analyst, The</i> , 2014, 139, 5079-5085.	1.7	82

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37	L-Met Activates Arabidopsis GLR Ca ²⁺ Channels Upstream of ROS Production and Regulates Stomatal Movement. <i>Cell Reports</i> , 2016, 17, 2553-2561.	2.9	71
38	Molecular and systems approaches towards drought-tolerant canola crops. <i>New Phytologist</i> , 2016, 210, 1169-1189.	3.5	70
39	Evaluation of 515 expressed sequence tags obtained from guard cells of <i>Brassica campestris</i> . <i>Planta</i> , 1997, 202, 9-17.	1.6	64
40	Vacuolar CAX1 and CAX3 Influence Auxin Transport in Guard Cells via Regulation of Apoplastic pH. <i>Plant Physiology</i> , 2012, 160, 1293-1302.	2.3	64
41	ROS-Mediated ABA Signaling. <i>Journal of Plant Biology</i> , 2009, 52, 102-113.	0.9	60
42	The <i>Arabidopsis</i> Small G Protein ROP2 Is Activated by Light in Guard Cells and Inhibits Light-Induced Stomatal Opening. <i>Plant Cell</i> , 2008, 20, 75-87.	3.1	55
43	Two <i>Arabidopsis</i> guard cell-preferential MAPK genes, <i>MPK9</i> and <i>MPK12</i> , function in biotic stress response. <i>Plant Signaling and Behavior</i> , 2011, 6, 1875-1877.	1.2	54
44	Two guard cell mitogen-activated protein kinases, <i>MPK9</i> and <i>MPK12</i> , function in methyl jasmonate-induced stomatal closure in <i>Arabidopsis thaliana</i> . <i>Plant Biology</i> , 2015, 17, 946-952.	1.8	48
45	Acetylated 1,3-diaminopropane antagonizes abscisic acid-mediated stomatal closing in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2014, 79, 322-333.	2.8	43
46	Calmodulin 1 Regulates Senescence and ABA Response in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 803.	1.7	38
47	Two putative protein kinases from <i>Arabidopsis thaliana</i> contain highly acidic domains. <i>Plant Molecular Biology</i> , 1993, 22, 615-624.	2.0	36
48	The Clickable Guard Cell, Version II: Interactive Model of Guard Cell Signal Transduction Mechanisms and Pathways. <i>The Arabidopsis Book</i> , 2008, 6, e0114.	0.5	36
49	Suppression of <i>Arabidopsis</i> AtPUB30 resulted in increased tolerance to salt stress during germination. <i>Plant Cell Reports</i> , 2015, 34, 277-289.	2.8	35
50	MAP Kinases, <i>MPK9</i> and <i>MPK12</i> , Regulate Chitosan-Induced Stomatal Closure. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 1785-1787.	0.6	34
51	The Protein Trio RPK1-CaM-RbohF Mediates Transient Superoxide Production to Trigger Age-Dependent Cell Death in <i>Arabidopsis</i> . <i>Cell Reports</i> , 2017, 21, 3373-3380.	2.9	34
52	Functional complementation of a yeast vesicular transport mutation <i>ypt1-1</i> by a <i>Brassica napus</i> cDNA clone encoding a small GTP-binding protein. <i>Plant Molecular Biology</i> , 1994, 26, 1725-1735.	2.0	32
53	Dominant Negative Guard Cell K ⁺ Channel Mutants Reduce Inward-Rectifying K ⁺ Currents and Light-Induced Stomatal Opening in <i>Arabidopsis</i> . , 0, .		30
54	Two guard cell-preferential MAPKs, <i>MPK9</i> and <i>MPK12</i> , regulate YEL signalling in <i>Arabidopsis</i> guard cells. <i>Plant Biology</i> , 2013, 15, 436-442.	1.8	29

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55	Insulin-induced maturation of <i>Xenopus</i> oocytes is inhibited by microinjection of a <i>Brassica napus</i> cDNA clone with high similarity to a mammalian receptor for activated protein kinase C. <i>Planta</i> , 1997, 201, 245-251.	1.6	27
56	MPK9 and MPK12 function in SA-induced stomatal closure in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1394-1400.	0.6	26
57	A <i>Brassica</i> cDNA clone encoding a bifunctional hydroxymethylpyrimidine kinase/thiamin-phosphate pyrophosphorylase involved in thiamin biosynthesis. <i>Plant Molecular Biology</i> , 1998, 37, 955-966.	2.0	18
58	Regulation of stomatal development by stomatal lineage miRNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6237-6245.	3.3	18
59	Methionine synthase 1 provides methionine for activation of the GLR3.5 Ca ²⁺ channel and regulation of germination in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2020, 71, 178-187.	2.4	16
60	Rapid apoplastic pH measurement in <i>Arabidopsis</i> leaves using a fluorescent dye. <i>Plant Signaling and Behavior</i> , 2013, 8, e22587.	1.2	14
61	Stomatal Lineage Control by Developmental Program and Environmental Cues. <i>Frontiers in Plant Science</i> , 2021, 12, 751852.	1.7	12
62	Random antisense cDNA mutagenesis as an efficient functional genomic approach in higher plants. <i>Planta</i> , 2002, 214, 668-674.	1.6	11
63	Proteasome subunit RPT2a promotes PTGS through repressing RNA quality control in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2019, 5, 1273-1282.	4.7	11
64	Glycosyltransferase-Like RSE1 Negatively Regulates Leaf Senescence Through Salicylic Acid Signaling in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 551.	1.7	9
65	Comparative Genomics and Molecular Characterization of the Maize PIN Family Proteins. <i>Frontiers in Plant Science</i> , 2012, 3, 43.	1.7	7
66	Direct force measurement of single DNA-peptide interactions using atomic force microscopy. <i>Journal of Molecular Recognition</i> , 2013, 26, 268-275.	1.1	7
67	Frequent in-frame length variations are found in the diverged simple repeat sequences of the protein-coding regions of two putative protein kinase genes of <i>Brassica napus</i> . <i>Plant Molecular Biology</i> , 1995, 27, 829-833.	2.0	6
68	Sensors Make Sense of Signaling. <i>Plant and Cell Physiology</i> , 2017, 58, 1121-1125.	1.5	6
69	Corrigendum to "Phosphorylation of the <i>Arabidopsis</i> AtrbohF NADPH oxidase by OST1 protein kinase" [FEBS Lett. 583 (2009) 2982-2986]. <i>FEBS Letters</i> , 2009, 583, 3375-3375.	1.3	3
70	R. S. WebTool, a web server for random sampling-based significance evaluation of pairwise distances. <i>Nucleic Acids Research</i> , 2014, 42, W198-W204.	6.5	0
71	Cellular coordination controlling organ separation and surface integrity in plants. <i>BMB Reports</i> , 2018, 51, 317-318.	1.1	0