

Heather Knight

List of Publications by Year in descending order

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37
papers

6,463
citations

186265

28
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

6888
citing authors

#	ARTICLE	IF	CITATIONS
1	Abiotic stress signalling pathways: specificity and cross-talk. <i>Trends in Plant Science</i> , 2001, 6, 262-267.	8.8	889
2	Calcium signalling in <i>Arabidopsis thaliana</i> responding to drought and salinity. <i>Plant Journal</i> , 1997, 12, 1067-1078.	5.7	833
3	OX11 kinase is necessary for oxidative burst-mediated signalling in <i>Arabidopsis</i> . <i>Nature</i> , 2004, 427, 858-861.	27.8	556
4	The vacuolar Ca ²⁺ -activated channel TPC1 regulates germination and stomatal movement. <i>Nature</i> , 2005, 434, 404-408.	27.8	490
5	Calcium Signaling during Abiotic Stress in Plants. <i>International Review of Cytology</i> , 1999, 195, 269-324.	6.2	371
6	Low-temperature perception leading to gene expression and cold tolerance in higher plants. <i>New Phytologist</i> , 2012, 195, 737-751.	7.3	325
7	Rapid and Dynamic Alternative Splicing Impacts the <i>Arabidopsis</i> Cold Response Transcriptome. <i>Plant Cell</i> , 2018, 30, 1424-1444.	6.6	294
8	Rapid Transcriptome Changes Induced by Cytosolic Ca ²⁺ Transients Reveal ABRE-Related Sequences as Ca ²⁺ -Responsive cis Elements in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2006, 18, 2733-2748.	6.6	277
9	Abscisic Acid Induces CBF Gene Transcription and Subsequent Induction of Cold-Regulated Genes via the CRT Promoter Element. <i>Plant Physiology</i> , 2004, 135, 1710-1717.	4.8	256
10	Temperature sensing by plants: the primary characteristics of signal perception and calcium response. <i>Plant Journal</i> , 1999, 18, 491-497.	5.7	230
11	ERF5 and ERF6 Play Redundant Roles as Positive Regulators of JA/Et-Mediated Defense against <i>Botrytis cinerea</i> in <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2012, 7, e35995.	2.5	225
12	The <i>sfr6</i> Mutation in <i>Arabidopsis</i> Suppresses Low-Temperature Induction of Genes Dependent on the CRT/DRE Sequence Motif. <i>Plant Cell</i> , 1999, 11, 875-886.	6.6	203
13	A history of stress alters drought calcium signalling pathways in <i>Arabidopsis</i> . <i>Plant Journal</i> , 1998, 16, 681-687.	5.7	161
14	Dissection of the ozone-induced calcium signature. <i>Plant Journal</i> , 1999, 17, 575-579.	5.7	122
15	SENSITIVE TO FREEZING6 Integrates Cellular and Environmental Inputs to the Plant Circadian Clock. <i>Plant Physiology</i> , 2008, 148, 293-303.	4.8	106
16	The <i>Arabidopsis</i> Mediator Complex Subunits MED16, MED14, and MED2 Regulate Mediator and RNA Polymerase II Recruitment to CBF-Responsive Cold-Regulated Genes. <i>Plant Cell</i> , 2014, 26, 465-484.	6.6	101
17	The Mediator subunit SFR6/MED16 controls defence gene expression mediated by salicylic acid and jasmonate responsive pathways. <i>New Phytologist</i> , 2012, 195, 217-230.	7.3	100
18	The calcium transporter ANNEXIN1 mediates cold-induced calcium signaling and freezing tolerance in plants. <i>EMBO Journal</i> , 2021, 40, e104559.	7.8	99

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19	Imaging spatial and cellular characteristics of low temperature calcium signature after cold acclimation in Arabidopsis. <i>Journal of Experimental Botany</i> , 2000, 51, 1679-1686.	4.8	97
20	Identification of SFR6, a key component in cold acclimation acting post-translationally on CBF function. <i>Plant Journal</i> , 2009, 58, 97-108.	5.7	96
21	Plasma Membrane Depolarization Induced by Abscisic Acid in Arabidopsis Suspension Cells Involves Reduction of Proton Pumping in Addition to Anion Channel Activation, Which Are Both Ca ²⁺ Dependent. <i>Plant Physiology</i> , 2004, 135, 231-243.	4.8	94
22	The <i>sfr6</i> mutant of Arabidopsis is defective in transcriptional activation via CBF/DREB1 and DREB2 and shows sensitivity to osmotic stress. <i>Plant Journal</i> , 2003, 34, 395-406.	5.7	86
23	Transcriptomic Analysis Reveals Calcium Regulation of Specific Promoter Motifs in Arabidopsis. <i>Plant Cell</i> , 2011, 23, 4079-4095.	6.6	86
24	crinkled leaves 8 - A mutation in the large subunit of ribonucleotide reductase - leads to defects in leaf development and chloroplast division in Arabidopsis thaliana. <i>Plant Journal</i> , 2007, 50, 118-127.	5.7	58
25	Getting the most out of publicly available T-DNA insertion lines. <i>Plant Journal</i> , 2008, 56, 665-677.	5.7	56
26	Chapter 14 Recombinant Aequorin Methods for Intracellular Calcium Measurement in Plants. <i>Methods in Cell Biology</i> , 1995, 49, 201-216.	1.1	51
27	Confocal microscopy of living fungal hyphae microinjected with Ca ²⁺ -sensitive fluorescent dyes. <i>Mycological Research</i> , 1993, 97, 1505-1515.	2.5	37
28	Identification of MEDIATOR16 as the Arabidopsis COBRA suppressor MONGOOSE1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 16048-16053.	7.1	37
29	MUR1-mediated cell-wall fucosylation is required for freezing tolerance in Arabidopsis thaliana. <i>New Phytologist</i> , 2019, 224, 1518-1531.	7.3	32
30	OsSFR6 is a functional rice orthologue of SENSITIVE TO FREEZING6 and can act as a regulator of COR gene expression, osmotic stress and freezing tolerance in Arabidopsis. <i>New Phytologist</i> , 2011, 191, 984-995.	7.3	29
31	Mechanically Stimulated TCH3 Gene Expression in Arabidopsis Involves Protein Phosphorylation and EIN6 Downstream of Calcium. <i>Plant Physiology</i> , 2002, 128, 1402-1409.	4.8	25
32	Recombinant aequorin methods for measurement of intracellular calcium in plants. , 1997, , 1-22.		11
33	Expression levels of inositol phosphorylceramide synthase modulate plant responses to biotic and abiotic stress in Arabidopsis thaliana. <i>PLoS ONE</i> , 2019, 14, e0217087.	2.5	7
34	Mediator Subunits MED16, MED14, and MED2 Are Required for Activation of ABRE-Dependent Transcription in Arabidopsis. <i>Frontiers in Plant Science</i> , 2021, 12, 649720.	3.6	5
35	Modelling and experimental analysis of the role of interacting cytosolic and vacuolar pools in shaping low temperature calcium signatures in plant cells. <i>Molecular BioSystems</i> , 2012, 8, 2205.	2.9	4
36	Nucleotide Depletion and Chloroplast Division. <i>Plant Signaling and Behavior</i> , 2007, 2, 197-198.	2.4	1

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37	SFR6 Protein of freezing tolerance in Arabidopsis does not affect localization of CBF1 protein. Tropical Agricultural Research and Extension, 2015, 16, 49.	0.2	0