

Stephen H Howell

List of Publications by Year in descending order

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51
papers

5,888
citations

126907

33
h-index

214800

47
g-index

52
all docs

52
docs citations

52
times ranked

4987
citing authors

#	ARTICLE	IF	CITATIONS
1	Endoplasmic Reticulum Stress Responses in Plants. Annual Review of Plant Biology, 2013, 64, 477-499.	18.7	422
2	Endoplasmic Reticulum Protein Quality Control and Its Relationship to Environmental Stress Responses in Plants. Plant Cell, 2010, 22, 2930-2942.	6.6	413
3	Heat induces the splicing by IRE1 of a mRNA encoding a transcription factor involved in the unfolded protein response in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7247-7252.	7.1	405
4	Salt stress responses in Arabidopsis utilize a signal transduction pathway related to endoplasmic reticulum stress signaling. Plant Journal, 2007, 51, 897-909.	5.7	401
5	An Endoplasmic Reticulum Stress Response in <i>Arabidopsis</i> Is Mediated by Proteolytic Processing and Nuclear Relocation of a Membrane-Associated Transcription Factor, bZIP28. Plant Cell, 2008, 19, 4111-4119.	6.6	394
6	bZIP28 and NF-Y Transcription Factors Are Activated by ER Stress and Assemble into a Transcriptional Complex to Regulate Stress Response Genes in <i>Arabidopsis</i> . Plant Cell, 2010, 22, 782-796.	6.6	356
7	Degradation of the Endoplasmic Reticulum by Autophagy during Endoplasmic Reticulum Stress in <i>Arabidopsis</i> . Plant Cell, 2012, 24, 4635-4651.	6.6	246
8	Gene Expression Programs during Shoot, Root, and Callus Development in Arabidopsis Tissue Culture. Plant Physiology, 2006, 141, 620-637.	4.8	225
9	Global and Hormone-Induced Gene Expression Changes during Shoot Development in Arabidopsis. Plant Cell, 2002, 14, 2771-2785.	6.6	186
10	Regulation and processing of a plant peptide hormone, AtRALF23, in Arabidopsis. Plant Journal, 2009, 59, 930-939.	5.7	174
11	Developmental steps in acquiring competence for shoot development in Arabidopsis tissue culture. Planta, 2007, 226, 1183-1194.	3.2	168
12	Managing the protein folding demands in the endoplasmic reticulum of plants. New Phytologist, 2016, 211, 418-428.	7.3	165
13	The ENHANCER OF SHOOT REGENERATION 2 gene in Arabidopsis Regulates CUP-SHAPED COTYLEDON 1 at the Transcriptional Level and Controls Cotyledon Development. Plant and Cell Physiology, 2006, 47, 1443-1456.	3.1	154
14	BINDING PROTEIN Is a Master Regulator of the Endoplasmic Reticulum Stress Sensor/Transducer bZIP28 in <i>Arabidopsis</i> . Plant Cell, 2013, 25, 1416-1429.	6.6	139
15	Proteolytic processing of a precursor protein for a growth-promoting peptide by a subtilisin serine protease in Arabidopsis. Plant Journal, 2008, 56, 219-227.	5.7	134
16	Protein kinase and ribonuclease domains of IRE1 confer stress tolerance, vegetative growth, and reproductive development in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19633-19638.	7.1	132
17	Genetic Regulation of Gene Expression During Shoot Development in Arabidopsis. Genetics, 2006, 172, 1155-1164.	2.9	131
18	Activation of autophagy by unfolded proteins during endoplasmic reticulum stress. Plant Journal, 2016, 85, 83-95.	5.7	131

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19	Developmental events and shoot apical meristem gene expression patterns during shoot development in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2002, 32, 867-877.	5.7	130
20	Cytokinins and shoot development. <i>Trends in Plant Science</i> , 2003, 8, 453-459.	8.8	124
21	Stress-induced expression of an activated form of AtbZIP17 provides protection from salt stress in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2008, 31, 1735-1743.	5.7	116
22	IRE1, a component of the unfolded protein response signaling pathway, protects pollen development in <i>Arabidopsis</i> from heat stress. <i>Plant Journal</i> , 2016, 88, 193-204.	5.7	113
23	Endoplasmic Reticulum (ER) Stress Response and Its Physiological Roles in Plants. <i>International Journal of Molecular Sciences</i> , 2013, 14, 8188-8212.	4.1	98
24	Gene Expression Patterns During Somatic Embryo Development and Germination in Maize Hi II Callus Cultures. <i>Plant Molecular Biology</i> , 2006, 62, 1-14.	3.9	80
25	The Transcription Factor bZIP60 Links the Unfolded Protein Response to the Heat Stress Response in Maize. <i>Plant Cell</i> , 2020, 32, 3559-3575.	6.6	75
26	The Unfolded Protein Response Supports Plant Development and Defense as well as Responses to Abiotic Stress. <i>Frontiers in Plant Science</i> , 2017, 8, 344.	3.6	74
27	Stress sensing in plants by an ER stress sensor/transducer, bZIP28. <i>Frontiers in Plant Science</i> , 2014, 5, 59.	3.6	72
28	Response to Persistent ER Stress in Plants: A Multiphasic Process That Transitions Cells from Prosurvival Activities to Cell Death. <i>Plant Cell</i> , 2018, 30, 1220-1242.	6.6	67
29	IRE1B degrades RNAs encoding proteins that interfere with the induction of autophagy by ER stress in <i>Arabidopsis thaliana</i> . <i>Autophagy</i> , 2018, 14, 1562-1573.	9.1	66
30	ZmbZIP60 mRNA is spliced in maize in response to ER stress. <i>BMC Research Notes</i> , 2012, 5, 144.	1.4	65
31	Elements proximal to and within the transmembrane domain mediate the organelle-to-organelle movement of bZIP28 under ER stress conditions. <i>Plant Journal</i> , 2012, 70, 1033-1042.	5.7	57
32	Heat Stress Responses and Thermotolerance in Maize. <i>International Journal of Molecular Sciences</i> , 2021, 22, 948.	4.1	57
33	<i>Arabidopsis</i> mutants with increased organ regeneration in tissue culture are more competent to respond to hormonal signals. <i>Planta</i> , 2001, 213, 700-707.	3.2	52
34	A Functional Unfolded Protein Response Is Required for Normal Vegetative Development. <i>Plant Physiology</i> , 2019, 179, 1834-1843.	4.8	37
35	Quantitative Trait Loci Associated With Adventitious Shoot Formation in Tissue Culture and the Program of Shoot Development in <i>Arabidopsis</i> . <i>Genetics</i> , 2004, 167, 1883-1892.	2.9	33
36	Evolution of the unfolded protein response in plants. <i>Plant, Cell and Environment</i> , 2021, 44, 2625-2635.	5.7	28

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37	The GET System Inserts the Tail-Anchored Protein, SYP72, into Endoplasmic Reticulum Membranes. <i>Plant Physiology</i> , 2017, 173, 1137-1145.	4.8	24
38	Cis-Effects Condition the Induction of a Major Unfolded Protein Response Factor, ZmbZIP60, in Response to Heat Stress in Maize. <i>Frontiers in Plant Science</i> , 2018, 9, 833.	3.6	23
39	Overexpression of an Arabidopsis gene encoding a subtilase (AtSBT5.4) produces a clavata-like phenotype. <i>Planta</i> , 2009, 230, 687-697.	3.2	20
40	Review: The two faces of IRE1 and their role in protecting plants from stress. <i>Plant Science</i> , 2021, 303, 110758.	3.6	17
41	When is the unfolded protein response not the unfolded protein response?. <i>Plant Science</i> , 2017, 260, 139-143.	3.6	16
42	Daily temperature cycles promote alternative splicing of RNAs encoding SR45a, a splicing regulator in maize. <i>Plant Physiology</i> , 2021, 186, 1318-1335.	4.8	16
43	Salt stress signaling in <i>Arabidopsis thaliana</i> involves a membrane-bound transcription factor AtbZIP17 as a signal transducer. <i>Plant Signaling and Behavior</i> , 2008, 3, 56-57.	2.4	14
44	Assessing plant performance in the Envirotron. <i>Plant Methods</i> , 2019, 15, 117.	4.3	13
45	Control of translation during the unfolded protein response in maize seedlings: Life without PERKs. <i>Plant Direct</i> , 2020, 4, e00241.	1.9	11
46	Endoplasmic reticulum shape and function in stress translation. <i>Frontiers in Plant Science</i> , 2014, 5, 425.	3.6	8
47	Robotic Assay for Drought (RoAD): an automated phenotyping system for brassinosteroid and drought responses. <i>Plant Journal</i> , 2021, 107, 1837-1853.	5.7	4
48	Processing of Peptides. <i>Signaling and Communication in Plants</i> , 2012, , 199-215.	0.7	0
49	ER Stress Signaling in Plants. , 2014, , 213-243.		0
50	Integrating active learning into a large introductory course: Preparing students for success in science. <i>FASEB Journal</i> , 2013, 27, 739.9.	0.5	0
51	Cytoplasm: ER Stress. , 2014, , 1-25.		0