

Katharine A Howell

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

3,471
citations

257357

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501076

28
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docs citations

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times ranked

4467
citing authors

#	ARTICLE	IF	CITATIONS
1	The Absence of ALTERNATIVE OXIDASE1a in Arabidopsis Results in Acute Sensitivity to Combined Light and Drought Stress. <i>Plant Physiology</i> , 2008, 147, 595-610.	2.3	357
2	Genome-Wide Analysis of mRNA Decay Rates and Their Determinants in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2007, 19, 3418-3436.	3.1	296
3	Salicylic Acid Is an Uncoupler and Inhibitor of Mitochondrial Electron Transport. <i>Plant Physiology</i> , 2004, 134, 492-501.	2.3	256
4	Differential Response of Gray Poplar Leaves and Roots Underpins Stress Adaptation during Hypoxia. <i>Plant Physiology</i> , 2009, 149, 461-473.	2.3	239
5	Mapping Metabolic and Transcript Temporal Switches during Germination in Rice Highlights Specific Transcription Factors and the Role of RNA Instability in the Germination Process. <i>Plant Physiology</i> , 2009, 149, 961-980.	2.3	236
6	Systemic and Intracellular Responses to Photooxidative Stress in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2008, 19, 4091-4110.	3.1	223
7	Towards an Analysis of the Rice Mitochondrial Proteome. <i>Plant Physiology</i> , 2003, 132, 230-242.	2.3	194
8	Systems-based analysis of Arabidopsis leaf growth reveals adaptation to water deficit. <i>Molecular Systems Biology</i> , 2012, 8, 606.	3.2	191
9	Mitochondrial complex I from Arabidopsis and rice: orthologs of mammalian and fungal components coupled with plant-specific subunits. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003, 1604, 159-169.	0.5	180
10	The nucleotidase/phosphatase SAL1 is a negative regulator of drought tolerance in Arabidopsis. <i>Plant Journal</i> , 2009, 58, 299-317.	2.8	164
11	Ordered Assembly of Mitochondria During Rice Germination Begins with Promitochondrial Structures Rich in Components of the Protein Import Apparatus. <i>Plant Molecular Biology</i> , 2006, 60, 201-223.	2.0	153
12	Functional Definition of Outer Membrane Proteins Involved in Preprotein Import into Mitochondria. <i>Plant Cell</i> , 2007, 19, 3739-3759.	3.1	146
13	Defining Core Metabolic and Transcriptomic Responses to Oxygen Availability in Rice Embryos and Young Seedlings. <i>Plant Physiology</i> , 2009, 151, 306-322.	2.3	141
14	Oxygen Initiation of Respiration and Mitochondrial Biogenesis in Rice. <i>Journal of Biological Chemistry</i> , 2007, 282, 15619-15631.	1.6	79
15	The Complete Sequence of the <i>Acacia ligulata</i> Chloroplast Genome Reveals a Highly Divergent <i>clpP1</i> Gene. <i>PLoS ONE</i> , 2015, 10, e0125768.	1.1	72
16	<i>SOT1</i> , a pentatricopeptide repeat protein with a small MutS-related domain, is required for correct processing of plastid 23S rRNA precursors in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2016, 85, 607-621.	2.8	68
17	Analysis of the Rice Mitochondrial Carrier Family Reveals Anaerobic Accumulation of a Basic Amino Acid Carrier Involved in Arginine Metabolism during Seed Germination. <i>Plant Physiology</i> , 2010, 154, 691-704.	2.3	67
18	The chloroplast RNA helicase <i>ISE2</i> is required for multiple chloroplast RNA processing steps in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2017, 91, 114-131.	2.8	62

#	ARTICLE	IF	CITATIONS
19	PPR-SMRs. <i>RNA Biology</i> , 2013, 10, 1501-1510.	1.5	57
20	Design of chimeric expression elements that confer high-level gene activity in chromoplasts. <i>Plant Journal</i> , 2013, 73, 368-379.	2.8	53
21	The Pentatricopeptide Repeat Protein EMB2654 Is Essential for Trans-Splicing of a Chloroplast Small Ribosomal Subunit Transcript. <i>Plant Physiology</i> , 2017, 173, 1164-1176.	2.3	52
22	Characterization of the Regulatory and Expression Context of an Alternative Oxidase Gene Provides Insights into Cyanide-Insensitive Respiration during Growth and Development. <i>Plant Physiology</i> , 2007, 143, 1519-1533.	2.3	50
23	Genome-scale transfer of mitochondrial DNA from legume hosts to the holoparasite <i>Lophophytum mirabile</i> (Balanophoraceae). <i>Molecular Phylogenetics and Evolution</i> , 2019, 132, 243-250.	1.2	44
24	Plastome-Wide Rearrangements and Gene Losses in Carnivorous Droseraceae. <i>Genome Biology and Evolution</i> , 2019, 11, 472-485.	1.1	40
25	Knockdown of the plastid-encoded acetyl-CoA carboxylase gene uncovers functions in metabolism and development. <i>Plant Physiology</i> , 2021, 185, 1091-1110.	2.3	15
26	Respiratory gene expression in soybean cotyledons during post-germinative development. <i>Plant Molecular Biology</i> , 2003, 51, 745-755.	2.0	14
27	Building the Powerhouse. <i>Plant Signaling and Behavior</i> , 2007, 2, 428-430.	1.2	7
28	Expression Analysis of Mitochondrial Components in a Variety of Plant Species Using Real-Time Quantitative PCR. , 2004, , 61-72.		0