Chris Carrie

List of Publications by Year
in descending order

53 papers	4,340 citations	109321 35 h-index	168389 53 g-index
54 all docs	54 docs citations	54 times ranked	4777 citing authors

#	Article	IF	Citations
1	Evidence for a SAL1-PAP Chloroplast Retrograde Pathway That Functions in Drought and High Light Signaling in Arabidopsis Â Â Â. Plant Cell, 2011, 23, 3992-4012.	6.6	473
2	A Membrane-Bound NAC Transcription Factor, ANAC017, Mediates Mitochondrial Retrograde Signaling in Arabidopsis Â Â. Plant Cell, 2013, 25, 3450-3471.	6.6	291
3	In-Depth Temporal Transcriptome Profiling Reveals a Crucial Developmental Switch with Roles for RNA Processing and Organelle Metabolism That Are Essential for Germination in Arabidopsis Â Â. Plant Physiology, 2011, 157, 1342-1362.	4.8	207
4	Defining the Mitochondrial Stress Response in Arabidopsis thaliana. Molecular Plant, 2009, 2, 1310-1324.	8.3	167
5	TCP Transcription Factors Link the Regulation of Genes Encoding Mitochondrial Proteins with the Circadian Clock in Arabidopsis thaliana Â Â. Plant Cell, 2011, 22, 3921-3934.	6.6	164
6	Single organelle function and organization as estimated from Arabidopsis mitochondrial proteomics. Plant Journal, 2020, 101, 420-441.	5.7	152
7	Functional Definition of Outer Membrane Proteins Involved in Preprotein Import into Mitochondria. Plant Cell, 2007, 19, 3739-3759.	6.6	146
8	A reevaluation of dual-targeting of proteins to mitochondria and chloroplasts. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 253-259.	4.1	141
9	Protein transport in organelles: Dual targeting of proteins to mitochondria and chloroplasts. FEBS Journal, 2009, 276, 1187-1195.	4.7	140
10	Approaches to defining dualâ€targeted proteins in Arabidopsis. Plant Journal, 2009, 57, 1128-1139.	5.7	139
11	Nucleotide and RNA Metabolism Prime Translational Initiation in the Earliest Events of Mitochondrial Biogenesis during Arabidopsis Germination Â Â. Plant Physiology, 2012, 158, 1610-1627.	4.8	124
12	Plant Mitochondrial Inner Membrane Protein Insertion. International Journal of Molecular Sciences, 2018, 19, 641.	4.1	122
13	Cyclin-dependent Kinase E1 (CDKE1) Provides a Cellular Switch in Plants between Growth and Stress Responses. Journal of Biological Chemistry, 2013, 288, 3449-3459.	3.4	121
14	The RCC1 family protein RUG3 is required for splicing of nad2 and complex I biogenesis in mitochondria of Arabidopsis thaliana. Plant Journal, 2011, 67, 1067-1080.	5.7	113
15	Conserved and Novel Functions for Arabidopsis thaliana MIA40 in Assembly of Proteins in Mitochondria and Peroxisomes. Journal of Biological Chemistry, 2010, 285, 36138-36148.	3.4	108
16	Nine 3-ketoacyl-CoA thiolases (KATs) and acetoacetyl-CoA thiolases (ACATs) encoded by five genes in Arabidopsis thaliana are targeted either to peroxisomes or cytosol but not to mitochondria. Plant Molecular Biology, 2006, 63, 97-108.	3.9	98
17	Type II NAD(P)H dehydrogenases are targeted to mitochondria and chloroplasts or peroxisomes in Arabidopsis thaliana. FEBS Letters, 2008, 582, 3073-3079.	2.8	97
18	Exploring the Function-Location Nexus: Using Multiple Lines of Evidence in Defining the Subcellular Location of Plant Proteins. Plant Cell, 2009, 21, 1625-1631.	6.6	95

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19	Characterization of the Preprotein and Amino Acid Transporter Gene Family in Arabidopsis. Plant Physiology, 2007, 143, 199-212.	4.8	94
20	Multiple Lines of Evidence Localize Signaling, Morphology, and Lipid Biosynthesis Machinery to the Mitochondrial Outer Membrane of Arabidopsis Â. Plant Physiology, 2011, 157, 1093-1113.	4.8	90
21	The mitochondrial outer membrane <scp>AAA ATP</scp>ase At<scp>OM</scp>66 affects cell death and pathogen resistance in <scp>A</scp>rabidopsis thaliana. Plant Journal, 2014, 80, 709-727.	5.7	80
22	The Cytoskeleton and the Peroxisomal-Targeted SNOWY COTYLEDON3 Protein Are Required for Chloroplast Development in Arabidopsis Â. Plant Cell, 2010, 22, 3423-3438.	6.6	77
23	Dual Location of the Mitochondrial Preprotein Transporters B14.7 and Tim23-2 in Complex I and the TIM17:23 Complex in Arabidopsis Links Mitochondrial Activity and Biogenesis. Plant Cell, 2012, 24, 2675-2695.	6.6	75
24	Acquisition, Conservation, and Loss of Dual-Targeted Proteins in Land Plants Â Â. Plant Physiology, 2013, 161, 644-662.	4.8	71
25	A dualâ€targeted purple acid phosphatase in Arabidopsis thaliana moderates carbon metabolism and its overexpression leads to faster plant growth and higher seed yield. New Phytologist, 2012, 194, 206-219.	7.3	70
26	Differential Gene Expression and Subcellular Targeting of Arabidopsis Glutathione S-Transferase F8 Is Achieved through Alternative Transcription Start Sites. Journal of Biological Chemistry, 2007, 282, 28915-28928.	3.4	69
27	Assembly of the Complexes of the Oxidative Phosphorylation System in Land Plant Mitochondria. Annual Review of Plant Biology, 2019, 70, 23-50.	18.7	68
28	LETM Proteins Play a Role in the Accumulation of Mitochondrially Encoded Proteins in Arabidopsis thaliana and AtLETM2 Displays Parent of Origin Effects. Journal of Biological Chemistry, 2012, 287, 41757-41773.	3.4	54
29	An in silico analysis of the mitochondrial protein import apparatus of plants. BMC Plant Biology, 2010, 10, 249.	3.6	53
30	Glutaredoxin S15 Is Involved in Fe-S Cluster Transfer in Mitochondria Influencing Lipoic Acid-Dependent Enzymes, Plant Growth, and Arsenic Tolerance in Arabidopsis. Plant Physiology, 2016, 170, 1284-1299.	4.8	53
31	Characterization of the Regulatory and Expression Context of an Alternative Oxidase Gene Provides Insights into Cyanide-Insensitive Respiration during Growth and Development. Plant Physiology, 2007, 143, 1519-1533.	4.8	50
32	How do plants make mitochondria?. Planta, 2013, 237, 429-439.	3.2	48
33	Identification of cleavage sites and substrate proteins for two mitochondrial intermediate peptidases in Arabidopsis thaliana. Journal of Experimental Botany, 2015, 66, 2691-2708.	4.8	46
34	Subcomplexes of Ancestral Respiratory Complex I Subunits Rapidly Turn Over in Vivo as Productive Assembly Intermediates in Arabidopsis*. Journal of Biological Chemistry, 2013, 288, 5707-5717.	3.4	44
35	Widespread dual targeting of proteins in land plants: When, where, how and why. Plant Signaling and Behavior, 2013, 8, e25034.	2.4	41
36	AtPAP2 is a tail-anchored protein in the outer membrane of chloroplasts and mitochondria. Plant Signaling and Behavior, 2012, 7, 927-932.	2.4	39

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37	Plant mitochondria contain the protein translocase subunits TatB and TatC. Journal of Cell Science, 2016, 129, 3935-3947.	2.0	38
38	Identification of a novel mitochondrial protein, short postembryonic roots 1 (SPR1), involved in root development and iron homeostasis in Oryza sativa. New Phytologist, 2011, 189, 843-855.	7.3	36
39	The PPR protein SLOW GROWTH 4 is involved in editing of nad4 and affects the splicing of nad2 intron 1. Plant Molecular Biology, 2017, 93, 355-368.	3.9	35
40	Inactivation of Mitochondrial Complex I Induces the Expression of a Twin Cysteine Protein that Targets and Affects Cytosolic, Chloroplastidic and Mitochondrial Function. Molecular Plant, 2016, 9, 696-710.	8.3	28
41	Identification of a Dual-Targeted Protein Belonging to the Mitochondrial Carrier Family That Is Required for Early Leaf Development in Rice Â Â Â. Plant Physiology, 2013, 161, 2036-2048.	4.8	25
42	The dual targeting ability of type II NAD(P)H dehydrogenases arose early in land plant evolution. BMC Plant Biology, 2013, 13, 100.	3.6	24
43	Accumulation of Newly Synthesized F1 in Vivo in Arabidopsis Mitochondria Provides Evidence for Modular Assembly of the Plant F1Fo ATP Synthase. Journal of Biological Chemistry, 2012, 287, 25749-25757.	3.4	23
44	Tissueâ€specific isolation of Arabidopsis/plant mitochondria â€“ IMTACT (isolation of mitochondria) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	5.7	21
45	Arabidopsis DGD1 SUPPRESSOR1 Is a Subunit of the Mitochondrial Contact Site and Cristae Organizing System and Affects Mitochondrial Biogenesis. Plant Cell, 2019, 31, 1856-1878.	6.6	19
46	The Plant Mitochondrial TAT Pathway Is Essential for Complex III Biogenesis. Current Biology, 2020, 30, 840-853.e5.	3.9	19
47	OXA2b is Crucial for Proper Membrane Insertion of COX2 during Biogenesis of Complex IV in Plant Mitochondria. Plant Physiology, 2019, 179, 601-615.	4.8	17
48	In Vitro and In Vivo Protein Uptake Studies in Plant Mitochondria. Methods in Molecular Biology, 2015, 1305, 61-81.	0.9	14
49	TOM9.2 Is a Calmodulin-Binding Protein Critical for TOM Complex Assembly but Not for Mitochondrial Protein Import in Arabidopsis thaliana. Molecular Plant, 2017, 10, 575-589.	8.3	9
50	To Mia or not to Mia: stepwise evolution of the mitochondrial intermembrane space disulfide relay. BMC Biology, 2017, 15, 119.	3.8	6
51	The OXA2a Insertase of Arabidopsis Is Required for Cytochrome c Maturation. Plant Physiology, 2020, 184, 1042-1055.	4.8	4
52	Assessment of Mitochondrial Protein Topology and. Methods in Molecular Biology, 2022, 2363, 165-181.	0.9	1
53	Two wrongs make a right: heat stress reversion of a  male-sterile Brassica napus line. Journal of Experimental Botany, 2022, , .	4.8	0