

Olivier Van Aken

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

4,792
citations

117625

34
h-index

182427

51
g-index

53
all docs

53
docs citations

53
times ranked

4982
citing authors

#	ARTICLE	IF	CITATIONS
1	Perturbation of Indole-3-Butyric Acid Homeostasis by the UDP-Glucosyltransferase <i>UGT74E2</i> Modulates <i>Arabidopsis</i> Architecture and Water Stress Tolerance. <i>Plant Cell</i> , 2010, 22, 2660-2679.	6.6	407
2	The Roles of Mitochondrial Reactive Oxygen Species in Cellular Signaling and Stress Response in Plants. <i>Plant Physiology</i> , 2016, 171, 1551-1559.	4.8	354
3	The Membrane-Bound NAC Transcription Factor ANAC013 Functions in Mitochondrial Retrograde Regulation of the Oxidative Stress Response in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3472-3490.	6.6	293
4	A Membrane-Bound NAC Transcription Factor, ANAC017, Mediates Mitochondrial Retrograde Signaling in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3450-3471.	6.6	291
5	Developmental Stage Specificity and the Role of Mitochondrial Metabolism in the Response of <i>Arabidopsis</i> Leaves to Prolonged Mild Osmotic Stress. <i>Plant Physiology</i> , 2009, 152, 226-244.	4.8	269
6	The Transcription Factor ABI4 Is a Regulator of Mitochondrial Retrograde Expression of <i>ALTERNATIVE OXIDASE1a</i> . <i>Plant Physiology</i> , 2009, 150, 1286-1296.	4.8	234
7	Alternative oxidase: a target and regulator of stress responses. <i>Physiologia Plantarum</i> , 2009, 137, 354-361.	5.2	211
8	<i>AtWRKY40</i> and <i>AtWRKY63</i> Modulate the Expression of Stress-Responsive Nuclear Genes Encoding Mitochondrial and Chloroplast Proteins. <i>Plant Physiology</i> , 2013, 162, 254-271.	4.8	175
9	Defining the Mitochondrial Stress Response in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2009, 2, 1310-1324.	8.3	167
10	TCP Transcription Factors Link the Regulation of Genes Encoding Mitochondrial Proteins with the Circadian Clock in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2011, 22, 3921-3934.	6.6	164
11	Anterograde and Retrograde Regulation of Nuclear Genes Encoding Mitochondrial Proteins during Growth, Development, and Stress. <i>Molecular Plant</i> , 2014, 7, 1075-1093.	8.3	156
12	Licensed to Kill: Mitochondria, Chloroplasts, and Cell Death. <i>Trends in Plant Science</i> , 2015, 20, 754-766.	8.8	155
13	Identification of Regulatory Pathways Controlling Gene Expression of Stress-Responsive Mitochondrial Proteins in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2008, 147, 1858-1873.	4.8	140
14	Mitochondrial type I prohibitins of <i>Arabidopsis thaliana</i> are required for supporting proficient meristem development. <i>Plant Journal</i> , 2007, 52, 850-864.	5.7	114
15	The EF-Hand Ca^{2+} Binding Protein MICU Choreographs Mitochondrial Ca^{2+} Dynamics in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2015, 27, 3190-3212.	6.6	103
16	A MYC2/MYC3/MYC4-dependent transcription factor network regulates water spray-responsive gene expression and jasmonate levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23345-23356.	7.1	95
17	Plant mitochondria – past, present and future. <i>Plant Journal</i> , 2021, 108, 912-959.	5.7	94
18	A Functional Antagonistic Relationship between Auxin and Mitochondrial Retrograde Signaling Regulates <i>Alternative Oxidase1a</i> Expression in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 165, 1233-1254.	4.8	87

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19	Mitochondrial and Chloroplast Stress Responses Are Modulated in Distinct Touch and Chemical Inhibition Phases. <i>Plant Physiology</i> , 2016, 171, 2150-2165.	4.8	85
20	Salicylic Acid-Dependent Plant Stress Signaling via Mitochondrial Succinate Dehydrogenase. <i>Plant Physiology</i> , 2017, 173, 2029-2040.	4.8	84
21	The mitochondrial outer membrane <i>AAA ATPase</i> <i>AtOM66</i> affects cell death and pathogen resistance in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2014, 80, 709-727.	5.7	80
22	Comparison of Transcriptional Changes to Chloroplast and Mitochondrial Perturbations Reveals Common and Specific Responses in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2012, 3, 281.	3.6	79
23	Mitochondrial Energy Signaling and Its Role in the Low-Oxygen Stress Response of Plants. <i>Plant Physiology</i> , 2018, 176, 1156-1170.	4.8	79
24	Mitophagy: A Mechanism for Plant Growth and Survival. <i>Trends in Plant Science</i> , 2018, 23, 434-450.	8.8	76
25	Multiparametric real-time sensing of cytosolic physiology links hypoxia responses to mitochondrial electron transport. <i>New Phytologist</i> , 2019, 224, 1668-1684.	7.3	69
26	Prohibitins: mitochondrial partners in development and stress response. <i>Trends in Plant Science</i> , 2010, 15, 275-282.	8.8	68
27	Retrograde signalling caused by heritable mitochondrial dysfunction is partially mediated by ANAC017 and improves plant performance. <i>Plant Journal</i> , 2016, 88, 542-558.	5.7	66
28	Mitochondrial respiratory pathways modulate nitrate sensing and nitrogen-dependent regulation of plant architecture in <i>Nicotiana glauca</i> . <i>Plant Journal</i> , 2008, 54, 976-992.	5.7	58
29	Convergence of mitochondrial and chloroplastic ANAC017/PAP-dependent retrograde signalling pathways and suppression of programmed cell death. <i>Cell Death and Differentiation</i> , 2017, 24, 955-960.	11.2	58
30	Mitochondrial redox systems as central hubs in plant metabolism and signaling. <i>Plant Physiology</i> , 2021, 186, 36-52.	4.8	56
31	LETM Proteins Play a Role in the Accumulation of Mitochondrially Encoded Proteins in <i>Arabidopsis thaliana</i> and <i>AtLETM2</i> Displays Parent of Origin Effects. <i>Journal of Biological Chemistry</i> , 2012, 287, 41757-41773.	3.4	54
32	The Transcription Factor MYB29 Is a Regulator of <i>ALTERNATIVE OXIDASE1a</i> . <i>Plant Physiology</i> , 2017, 173, 1824-1843.	4.8	46
33	The Mitochondrial Protein Import Component, TRANSLOCASE OF THE INNER MEMBRANE17-1, Plays a Role in Defining the Timing of Germination in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 166, 1420-1435.	4.8	45
34	Mitochondrial unfolded protein-related responses across kingdoms: similar problems, different regulators. <i>Mitochondrion</i> , 2020, 53, 166-177.	3.4	41
35	Inactivation of Mitochondrial Complex I Induces the Expression of a Twin Cysteine Protein that Targets and Affects Cytosolic, Chloroplastic and Mitochondrial Function. <i>Molecular Plant</i> , 2016, 9, 696-710.	8.3	28
36	Retrograde signals from endosymbiotic organelles: a common control principle in eukaryotic cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190396.	4.0	24

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37	The transcription factor ANAC017 is a key regulator of mitochondrial proteotoxic stress responses in plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190411.	4.0	22
38	Touch signaling and thigmomorphogenesis are regulated by complementary CAMTA3- and JA-dependent pathways. <i>Science Advances</i> , 2022, 8, .	10.3	22
39	REDOX regulation of mitochondrial function in plants. <i>Plant, Cell and Environment</i> , 2012, 35, 271-280.	5.7	19
40	An Assembly Factor Promotes Assembly of Flavinated SDH1 into the Succinate Dehydrogenase Complex. <i>Plant Physiology</i> , 2018, 177, 1439-1452.	4.8	17
41	Neofunctionalization of Mitochondrial Proteins and Incorporation into Signaling Networks in Plants. <i>Molecular Biology and Evolution</i> , 2019, 36, 974-989.	8.9	17
42	Increased expression of <i>ANAC017</i> primes for accelerated senescence. <i>Plant Physiology</i> , 2021, 186, 2205-2221.	4.8	15
43	Joint inhibition of mitochondrial complex IV and alternative oxidase by genetic or chemical means represses chloroplast transcription in <i>Arabidopsis</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190409.	4.0	13
44	Carbon starvation, senescence and specific mitochondrial stresses, but not nitrogen starvation and general stresses, are major triggers for mitophagy in <i>Arabidopsis</i> . <i>Autophagy</i> , 2022, 18, 2894-2912.	9.1	12
45	The Mitochondrial DNA (mtDNA)-Associated Protein SWIB5 Influences mtDNA Architecture and Homologous Recombination. <i>Plant Cell</i> , 2017, 29, tpc.00899.2016.	6.6	11
46	Studying Retrograde Signaling in Plants. <i>Methods in Molecular Biology</i> , 2018, 1743, 73-85.	0.9	9
47	Globular structures in roots accumulate phosphorus to extremely high concentrations following phosphorus addition. <i>Plant, Cell and Environment</i> , 2019, 42, 1987-2002.	5.7	9
48	Development of a real-time quantitative PCR method for detection and quantification of <i>Prevotella copri</i> . <i>BMC Microbiology</i> , 2021, 21, 23.	3.3	6
49	The mitochondrial <i>LYR</i> protein <i>SDHAF1</i> is required for succinate dehydrogenase activity in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2022, 110, 499-512.	5.7	6
50	Purification of Leaf Mitochondria from <i>Arabidopsis thaliana</i> Using Percoll Density Gradients. <i>Methods in Molecular Biology</i> , 2022, 2363, 1-12.	0.9	4
51	Evaluation of Antibiotic-Based Selection Methods for <i>Camelina sativa</i> Stable Transformants. <i>Cells</i> , 2022, 11, 1068.	4.1	3
52	MITOCHONDRIA AND CELL DEATH. , 0, , 343-371.		0