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List of Publications by Year in descending order

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68
papers

5,425
citations

76326

40
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98798

67
g-index

70
all docs

70
docs citations

70
times ranked

3618
citing authors

#	ARTICLE	IF	CITATIONS
1	ALTERNATIVE OXIDASE: From Gene to Function. Annual Review of Plant Biology, 1997, 48, 703-734.	14.3	707
2	Alternative Oxidase: A Mitochondrial Respiratory Pathway to Maintain Metabolic and Signaling Homeostasis during Abiotic and Biotic Stress in Plants. International Journal of Molecular Sciences, 2013, 14, 6805-6847.	4.1	576
3	Transgenic Plant Cells Lacking Mitochondrial Alternative Oxidase Have Increased Susceptibility to Mitochondria-Dependent and -Independent Pathways of Programmed Cell Death. Plant Physiology, 2002, 129, 1908-1920.	4.8	214
4	Lower Growth Temperature Increases Alternative Pathway Capacity and Alternative Oxidase Protein in Tobacco. Plant Physiology, 1992, 100, 115-119.	4.8	198
5	Induction of Mitochondrial Alternative Oxidase in Response to a Cell Signal Pathway Down-Regulating the Cytochrome Pathway Prevents Programmed Cell Death. Plant Physiology, 2002, 129, 1829-1842.	4.8	188
6	The role of alternative oxidase in modulating carbon use efficiency and growth during macronutrient stress in tobacco cells. Journal of Experimental Botany, 2005, 56, 1499-1515.	4.8	160
7	Is the maintenance of homeostatic mitochondrial signaling during stress a physiological role for alternative oxidase?. Physiologia Plantarum, 2009, 137, 392-406.	5.2	150
8	Alternative oxidase modulates leaf mitochondrial concentrations of superoxide and nitric oxide. New Phytologist, 2012, 195, 32-39.	7.3	150
9	Increased Respiratory Restriction during Phosphate-Limited Growth in Transgenic Tobacco Cells Lacking Alternative Oxidase. Plant Physiology, 1999, 121, 1309-1320.	4.8	138
10	The role of the mitochondrion in plant responses to biotic stress. Physiologia Plantarum, 2007, 129, 253-266.	5.2	121
11	Alternative oxidase in animals: unique characteristics and taxonomic distribution. Journal of Experimental Biology, 2009, 212, 2627-2634.	1.7	118
12	Changes in Plant Mitochondrial Electron Transport Alter Cellular Levels of Reactive Oxygen Species and Susceptibility to Cell Death Signaling Molecules. Plant and Cell Physiology, 2006, 47, 1509-1519.	3.1	113
13	Alternative oxidase respiration maintains both mitochondrial and chloroplast function during drought. New Phytologist, 2017, 213, 560-571.	7.3	111
14	Coordinate Regulation of Cytochrome and Alternative Pathway Respiration in Tobacco. Plant Physiology, 1992, 100, 1846-1851.	4.8	106
15	Alternative oxidase: a respiratory electron transport chain pathway essential for maintaining photosynthetic performance during drought stress. Physiologia Plantarum, 2016, 157, 322-337.	5.2	106
16	Branched Mitochondrial Electron Transport in the Animalia: Presence of Alternative Oxidase in Several Animal Phyla. IUBMB Life, 2004, 56, 333-341.	3.4	104
17	Alternative oxidase impacts the plant response to biotic stress by influencing the mitochondrial generation of reactive oxygen species. Plant, Cell and Environment, 2013, 36, 721-732.	5.7	101
18	Mitochondrial Alternative Oxidase Is Not a Critical Component of Plant Viral Resistance But May Play a Role in the Hypersensitive Response. Plant Physiology, 2002, 129, 1858-1865.	4.8	99

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19	Relationship between NH ⁺ ₄ Assimilation Rate and <i>in Vivo</i> Phosphoenolpyruvate Carboxylase Activity. <i>Plant Physiology</i> , 1990, 94, 284-290.	4.8	94
20	Molecular Localization of a Redox-Modulated Process Regulating Plant Mitochondrial Electron Transport. <i>Plant Cell</i> , 1998, 10, 1551-1560.	6.6	93
21	Impact of mitochondrial alternative oxidase expression on the response of <i>Nicotiana tabacum</i> to cold temperature. <i>Physiologia Plantarum</i> , 2011, 142, 339-351.	5.2	86
22	Photosynthesis, respiration and growth: A carbon and energy balancing act for alternative oxidase. <i>Mitochondrion</i> , 2020, 52, 197-211.	3.4	84
23	Mitochondrial Alternative Oxidase Maintains Respiration and Preserves Photosynthetic Capacity during Moderate Drought in <i>Nicotiana tabacum</i> . <i>Plant Physiology</i> , 2014, 166, 1560-1574.	4.8	79
24	Origins, evolutionary history, and taxonomic distribution of alternative oxidase and plastoquinol terminal oxidase. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2006, 1, 357-364.	1.0	78
25	Alternative oxidase and plastoquinol terminal oxidase in marine prokaryotes of the Sargasso Sea. <i>Gene</i> , 2005, 349, 15-24.	2.2	76
26	Significance of Phosphoenolpyruvate Carboxylase during Ammonium Assimilation. <i>Plant Physiology</i> , 1989, 89, 1150-1157.	4.8	74
27	Regulation of Carbon Partitioning to Respiration during Dark Ammonium Assimilation by the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 93, 166-175.	4.8	74
28	Mitochondrial alternative oxidase acts to dampen the generation of active oxygen species during a period of rapid respiration induced to support a high rate of nutrient uptake. <i>Physiologia Plantarum</i> , 2001, 112, 327-333.	5.2	73
29	A lack of mitochondrial alternative oxidase compromises capacity to recover from severe drought stress. <i>Physiologia Plantarum</i> , 2013, 149, 461-473.	5.2	65
30	Normal Growth of Transgenic Tobacco Plants in the Absence of Cytosolic Pyruvate Kinase. <i>Plant Physiology</i> , 1992, 100, 820-825.	4.8	62
31	Partitioning of respiratory electrons in the dark in leaves of transgenic tobacco with modified levels of alternative oxidase. <i>Physiologia Plantarum</i> , 2005, 125, 171-180.	5.2	58
32	In Organello and in Vivo Evidence of the Importance of the Regulatory Sulfhydryl/Disulfide System and Pyruvate for Alternative Oxidase Activity in Tobacco. <i>Plant Physiology</i> , 1999, 121, 793-803.	4.8	56
33	Coordination of a mitochondrial superoxide burst during the hypersensitive response to bacterial pathogen in <i>Nicotiana tabacum</i> . <i>Plant, Cell and Environment</i> , 2012, 35, 1121-1136.	5.7	54
34	Improved photosynthetic performance during severe drought in <i>Nicotiana tabacum</i> overexpressing a nonenergy conserving respiratory electron sink. <i>New Phytologist</i> , 2015, 208, 382-395.	7.3	51
35	Methods and approaches to study plant mitochondrial alternative oxidase. <i>Physiologia Plantarum</i> , 2002, 116, 135-143.	5.2	50
36	Prokaryotic orthologues of mitochondrial alternative oxidase and plastid terminal oxidase. <i>Plant Molecular Biology</i> , 2003, 53, 865-876.	3.9	50

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37	Knockdown of mitochondrial alternative oxidase induces the "stress state"™ of signaling molecule pools in <i>Nicotiana tabacum</i> , with implications for stomatal function. <i>New Phytologist</i> , 2014, 203, 449-461.	7.3	48
38	Roles for Plant Mitochondrial Alternative Oxidase Under Normoxia, Hypoxia, and Reoxygenation Conditions. <i>Frontiers in Plant Science</i> , 2020, 11, 566.	3.6	46
39	The occurrence and control of nitric oxide generation by the plant mitochondrial electron transport chain. <i>Plant, Cell and Environment</i> , 2017, 40, 1074-1085.	5.7	45
40	Short-Term Metabolite Changes during Transient Ammonium Assimilation by the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1989, 91, 749-755.	4.8	43
41	Anaerobic Metabolism in the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 94, 1116-1123.	4.8	43
42	A glucocorticoid-inducible gene expression system can cause growth defects in tobacco. <i>Planta</i> , 2007, 226, 453-463.	3.2	38
43	Coordinated regulation of photosynthetic and respiratory components is necessary to maintain chloroplast energy balance in varied growth conditions. <i>Journal of Experimental Botany</i> , 2016, 68, erw469.	4.8	37
44	Anaerobic Carbon Metabolism by the Tricarboxylic Acid Cycle. <i>Plant Physiology</i> , 1989, 91, 1551-1557.	4.8	35
45	The inorganic carbon requirements for nitrogen assimilation. <i>Canadian Journal of Botany</i> , 1991, 69, 1139-1145.	1.1	34
46	Growth at Elevated CO ₂ Requires Acclimation of the Respiratory Chain to Support Photosynthesis. <i>Plant Physiology</i> , 2018, 178, 82-100.	4.8	34
47	Improved chloroplast energy balance during water deficit enhances plant growth: more crop per drop. <i>Journal of Experimental Botany</i> , 2018, 69, 1183-1197.	4.8	31
48	Anaerobic Metabolism in the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1991, 95, 655-658.	4.8	28
49	Activation of Respiration to Support Dark NO ₃ ⁻ and NH ₄ ⁺ Assimilation in the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1992, 99, 495-500.	4.8	28
50	Demonstration of Both a Photosynthetic and a Nonphotosynthetic CO ₂ Requirement for NH ₄ ⁺ Assimilation in the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1991, 95, 192-196.	4.8	27
51	The signaling role of a mitochondrial superoxide burst during stress. <i>Plant Signaling and Behavior</i> , 2013, 8, e22749.	2.4	25
52	Evidence for Activation of the Oxidative Pentose Phosphate Pathway during Photosynthetic Assimilation of NO ₃ ⁻ but Not NH ₄ ⁺ by a Green Alga. <i>Plant Physiology</i> , 1992, 100, 2096-2099.	4.8	22
53	Anaerobic Metabolism in the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 94, 1124-1130.	4.8	19
54	The flexibility of metabolic interactions between chloroplasts and mitochondria in <i>Nicotiana tabacum</i> leaf. <i>Plant Journal</i> , 2021, 106, 1625-1646.	5.7	18

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55	The Complementary Roles of Chloroplast Cyclic Electron Transport and Mitochondrial Alternative Oxidase to Ensure Photosynthetic Performance. <i>Frontiers in Plant Science</i> , 2021, 12, 748204.	3.6	15
56	Plant respiration in a high CO ₂ world: How will alternative oxidase respond to future atmospheric and climatic conditions?. <i>Canadian Journal of Plant Science</i> , 2014, 94, 1091-1101.	0.9	14
57	The Organization and Control of Plant Mitochondrial Metabolism. , 0, , 290-324.		12
58	The product of the alternative oxidase is still H ₂ O. <i>Archives of Biochemistry and Biophysics</i> , 2010, 495, 93-94.	3.0	12
59	Mitochondria-Nucleus Interactions: Evidence for Mitochondrial Retrograde Communication in Plant Cells. <i>Advances in Photosynthesis and Respiration</i> , 2004, , 83-106.	1.0	10
60	The Role of Alternative Oxidase in the Interplay between Nitric Oxide, Reactive Oxygen Species, and Ethylene in Tobacco (<i>Nicotiana tabacum</i> L.) Plants Incubated under Normoxic and Hypoxic Conditions. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7153.	4.1	9
61	Signaling interactions between mitochondria and chloroplasts in <i>Nicotiana tabacum</i> leaf. <i>Physiologia Plantarum</i> , 2019, 167, 188-204.	5.2	8
62	Distinctive mitochondrial and chloroplast components contributing to the maintenance of carbon balance during plant growth at elevated CO ₂ . <i>Plant Signaling and Behavior</i> , 2020, 15, 1795395.	2.4	5
63	Nitric Oxide Turnover Under Hypoxia Results in the Rapid Increased Expression of the Plastid-Localized Phosphorylated Pathway of Serine Biosynthesis. <i>Frontiers in Plant Science</i> , 2021, 12, 780842.	3.6	4
64	Molecular Localization of a Redox-Modulated Process Regulating Plant Mitochondrial Electron Transport. <i>Plant Cell</i> , 1998, 10, 1551.	6.6	3
65	Interactions between mitochondrial electron transport, reactive oxygen species, and the susceptibility of <i>Nicotiana tabacum</i> cells to programmed cell death. <i>Botany</i> , 2008, 86, 278-290.	1.0	3
66	Does the stromal concentration of P _i control chloroplast ATP synthase protein amount in contrasting growth environments?. <i>Plant Signaling and Behavior</i> , 2019, 14, 1675473.	2.4	3
67	In Planta Analysis of Leaf Mitochondrial Superoxide and Nitric Oxide. <i>Methods in Molecular Biology</i> , 2015, 1305, 253-261.	0.9	1
68	Quinol Oxidases. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 167-185.	1.0	1