Anthony L Moore

List of Publications by Year
in descending order

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90 papers	3,479 citations	147801 31 h-index	144013 57 g-index
101 all docs	101 docs citations	101 times ranked	2288 citing authors

#	Article	IF	Citations
1	The regulation and nature of the cyanide-resistant alternative oxidase of plant mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 1991, 1059, 121-140.	1.0	289
2	An accurate and reproducible method for proteome profiling of the effects of salt stress in the rice leaf lamina. Journal of Experimental Botany, 2006, 57, 1109-1118.	4.8	227
3	Function of the alternative oxidase: is it still a scavenger?. Trends in Plant Science, 2002, 7, 478-481.	8.8	176
4	Structure of the trypanosome cyanide-insensitive alternative oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4580-4585.	7.1	163
5	Structure and Function of the Plant Alternative Oxidase: Its Putative Role in the Oxygen Defence Mechanism. Bioscience Reports, 1997, 17, 319-333.	2.4	160
6	Unraveling the Heater: New Insights into the Structure of the Alternative Oxidase. Annual Review of Plant Biology, 2013, 64, 637-663.	18.7	129
7	The active site of the cyanide-resistant oxidase from plant mitochondria contains a binuclear iron center. FEBS Letters, 1995, 362, 10-14.	2.8	127
8	Exploring the molecular nature of alternative oxidase regulation and catalysis. FEBS Letters, 2002, 510, 121-126.	2.8	116
9	Studies on the mechanism of inhibition of redox enzymes by substituted hydroxamic acids. Biochimica Et Biophysica Acta - Biomembranes, 1978, 525, 325-337.	2.6	114
10	Control of plant mitochondrial respiration. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1504, 58-69.	1.0	114
11	Structure-function relationships of the alternative oxidase of plant mitochondria: A model of the active site. Journal of Bioenergetics and Biomembranes, 1995, 27, 367-377.	2.3	90
12	The determination of the proton-motive force during cyanide-insensitive respiration in plant mitochondria. Archives of Biochemistry and Biophysics, 1978, 186, 298-306.	3.0	76
13	Regulation of thermogenesis in flowering Araceae: The role of the alternative oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 993-1000.	1.0	76
14	Measurement of the redox state of the ubiquinone pool in plant mitochondria. FEBS Letters, 1988, 235, 76-80.	2.8	74
15	The Relationship Between Electron Flux and the Redox Poise of the Quinone Pool in Plant Mitochondria. Interplay Between Quinol-Oxidizing and Quinone-Reducing Pathways. FEBS Journal, 1994, 226, 1071-1078.	0.2	71
16	Structure of the Plant Alternative Oxidase. Journal of Biological Chemistry, 2002, 277, 1190-1194.	3.4	67
17	Further insights into the structure of the alternative oxidase: from plants to parasites. Biochemical Society Transactions, 2008, 36, 1022-1026.	3.4	67
18	Calcium and plant organelles. Plant, Cell and Environment, 1984, 7, 423-429.	5.7	66

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19	Towards a structural elucidation of the alternative oxidase in plants. Physiologia Plantarum, 2009, 137, 316-327.	5.2	59
20	A Broad Distribution of the Alternative Oxidase in Microsporidian Parasites. PLoS Pathogens, 2010, 6, e1000761.	4.7	54
21	Purification and kinetic characterization of recombinant alternative oxidase from Trypanosoma brucei brucei. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 443-450.	1.0	51
22	Compelling EPR evidence that the alternative oxidase is a diiron carboxylate protein. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 327-330.	1.0	50
23	Bioenergetic consequences from xenotopic expression of a tunicate AOX in mouse mitochondria: Switch from RET and ROS to FET. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148137.	1.0	46
24	Structural insights into the alternative oxidases: are all oxidases made equal?. Biochemical Society Transactions, 2017, 45, 731-740.	3.4	45
25	Characterisation of PHSP1, a cDNA encoding a mitochondrial HSP70 fromPisum sativum. Plant Molecular Biology, 1992, 18, 23-32.	3.9	43
26	A kinetic model for the regulation of electron transfer through the cyanide-resistant pathway in plant mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1142, 165-174.	1.0	41
27	Constitutive activity ofSauromatum guttatumalternative oxidase inSchizosaccharomyces pombeimplicates residues in addition to conserved cysteines in Î±-keto acid activation. FEBS Letters, 2005, 579, 331-336.	2.8	40
28	A Highly Conserved Glutamate Residue (Glu-270) Is Essential for Plant Alternative Oxidase Activity. Journal of Biological Chemistry, 1998, 273, 30301-30305.	3.4	39
29	A Selfâ€Assembled Respiratory Chain that Catalyzes NADH Oxidation by Ubiquinoneâ€10 Cycling between Complexâ€…I and the Alternative Oxidase. Angewandte Chemie - International Edition, 2016, 55, 728-731.	13.8	37
30	Targeting the Plant Alternative Oxidase Protein to Mitochondria Confers Cyanide-insensitive Respiration. Journal of Biological Chemistry, 1996, 271, 17062-17066.	3.4	36
31	Mutagenesis of the Sauromatum guttatum alternative oxidase reveals features important for oxygen binding and catalysis. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 732-737.	1.0	33
32	Functional Expression of the Plant Alternative Oxidase Affects Growth of the Yeast Schizosaccharomyces pombe. Journal of Biological Chemistry, 1999, 274, 6212-6218.	3.4	32
33	Selective Cytotoxicity of Dihydroorotate Dehydrogenase Inhibitors to Human Cancer Cells Under Hypoxia and Nutrient-Deprived Conditions. Frontiers in Pharmacology, 2018, 9, 997.	3.5	32
34	Schizosaccharomyces pombe mitochondria: Morphological, respiratory and protein import characteristics. Yeast, 1992, 8, 923-933.	1.7	29
35	Mitochondrial electron transfer in the wheat pathogenic fungus Septoria tritici: on the role of alternative respiratory enzymes in fungicide resistance. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1459, 291-298.	1.0	28
36	Three Redox States of Trypanosoma brucei Alternative Oxidase Identified by Infrared Spectroscopy and Electrochemistry. Journal of Biological Chemistry, 2009, 284, 31827-31833.	3.4	28

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37	Interaction of purified alternative oxidase from thermogenic Arum maculatum with pyruvate. FEBS Letters, 2011, 585, 397-401.	2.8	26
38	The Human Gut Colonizer Blastocystis Respires Using Complex II and Alternative Oxidase to Buffer Transient Oxygen Fluctuations in the Gut. Frontiers in Cellular and Infection Microbiology, 2018, 8, 371.	3.9	26
39	Kinetic analysis of the mitochondrial quinol-oxidizing enzymes during development of thermogenesis in Arum maculatum L. Biochemical Journal, 1996, 317, 313-319.	3.7	25
40	Measurement of the redox state of the ubiquinone pool inRhodobacter capsulatusmembrane fragments. FEBS Letters, 1990, 271, 123-127.	2.8	24
41	Identification of a Gene for Pyruvate-Insensitive Mitochondrial Alternative Oxidase Expressed in the Thermogenic Appendices in Arum maculatum Â Â Â. Plant Physiology, 2011, 157, 1721-1732.	4.8	24
42	The alternative oxidases: simple oxidoreductase proteins with complex functions. Biochemical Society Transactions, 2013, 41, 1305-1311.	3.4	24
43	Discovery of trypanocidal coumarins with dual inhibition of both the glycerol kinase and alternative oxidase of Trypanosoma brucei brucei. FASEB Journal, 2019, 33, 13002-13013.	0.5	24
44	In Vivo Ubiquinone Reduction Levels during Thermogenesis in Araceae1. Plant Physiology, 1998, 117, 1501-1506.	4.8	23
45	The Legs at odd angles (Loa) Mutation in Cytoplasmic Dynein Ameliorates Mitochondrial Function in SOD1G93A Mouse Model for Motor Neuron Disease. Journal of Biological Chemistry, 2010, 285, 18627-18639.	3.4	23
46	Different molecular bases underlie the mitochondrial respiratory activity in the homoeothermic spadices of Symplocarpus renifolius and the transiently thermogenic appendices of Arum maculatum. Biochemical Journal, 2012, 445, 237-246.	3.7	23
47	Movement of amino acids into isolated plant mitochondria. FEBS Letters, 1982, 147, 26-30.	2.8	22
48	Ubiquinol-binding site in the alternative oxidase: Mutagenesis reveals features important for substrate binding and inhibition. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1933-1939.	1.0	21
49	Insights into the ubiquinol/dioxygen binding and proton relay pathways of the alternative oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 375-382.	1.0	21
50	Purification of the plant alternative oxidase from Arum maculatum: measurement, stability and metal requirement. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1608, 181-189.	1.0	20
51	Crystallization and preliminary crystallographic analysis of cyanide-insensitive alternative oxidase fromTrypanosoma brucei brucei. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 275-278.	0.7	19
52	Probing the ubiquinol-binding site of recombinant Sauromatum guttatum alternative oxidase expressed in E. coli membranes through site-directed mutagenesis. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1219-1225.	1.0	19
53	Gentamicin Affects the Bioenergetics of Isolated Mitochondria and Collapses the Mitochondrial Membrane Potential in Cochlear Sensory Hair Cells. Frontiers in Cellular Neuroscience, 2019, 13, 416.	3.7	18
54	Purification and characterisation of recombinant DNA encoding the alternative oxidase from Sauromatum guttatum. Mitochondrion, 2014, 19, 261-268.	3.4	17

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55	Identification of a mitochondrial alcohol dehydrogenase in Schizosaccharomyces pombe: new insights into energy metabolism. Biochemical Journal, 2007, 401, 459-464.	3.7	15
56	QSAR and molecular docking for the search of AOX inhibitors: a rational drug discovery approach. Journal of Computer-Aided Molecular Design, 2021, 35, 245-260.	2.9	12
57	Dibutylchloromethyltin chloride, a potent inhibitor of electron transport in plant mitochondria. Journal of Bioenergetics and Biomembranes, 1980, 12, 309-323.	2.3	10
58	The regulation of oxidative phosphorylation in plant mitochondria: The roles of the quinone-oxidizing and -reducing pathways. Biochemical Society Transactions, 1993, 21, 765-769.	3.4	10
59	Biochemical characterization and inhibition of the alternative oxidase enzyme from the fungal phytopathogen Moniliophthora perniciosa. Communications Biology, 2020, 3, 263.	4.4	10
60	In vivo active organometallic-containing antimycotic agents. RSC Chemical Biology, 2021, 2, 1263-1273.	4.1	10
61	Degradation of mitochondrial alternative oxidase in the appendices of Arum maculatum. Biochemical Journal, 2020, 477, 3417-3431.	3.7	9
62	Comparison of the Kinetic Parameters of Alternative Oxidases From Trypanosoma brucei and Arabidopsis thalianaâ€"A Tale of Two Cavities. Frontiers in Plant Science, 2021, 12, 744218.	3.6	8
63	The active site of the plant alternative oxidase: structural and mechanistic considerations. Pest Management Science, 2000, 56, 31-38.	3.4	7
64	Weak O2 binding and strong H2O2 binding at the non-heme diiron center of trypanosome alternative oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148356.	1.0	7
65	Kinetic characterisation and inhibitor sensitivity of Candida albicans and Candida auris recombinant AOX expressed in a self-assembled proteoliposome system. Scientific Reports, 2021, 11, 14748.	3.3	7
66	The nature and regulation of the alternative oxidase of plant mitochondria. Biochemical Society Transactions, 1992, 20, 361-363.	3.4	6
67	Kinetic and structural characterisation of the ubiquinol-binding site and oxygen reduction by the trypanosomal alternative oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148247.	1.0	6
68	Targeting the alternative oxidase (AOX) for human health and food security, a pharmaceutical and agrochemical target or a rescue mechanism?. Biochemical Journal, 2022, 479, 1337-1359.	3.7	6
69	Structure and Mechanism of Action of the Alternative Quinol Oxidases. Advances in Photosynthesis and Respiration, 2016, , 375-394.	1.0	5
70	A mathematical model to describe quinone pool kinetics and analyse control of respiration in plant mitochondria. Biochemical Society Transactions, 1995, 23, 289S-289S.	3.4	4
71	Respiratory Chain and ATP Synthase. , 2019, , .		4
72	H+/O stoichiometry in plant mitochondria. Biochemical Society Transactions, 1984, 12, 849-850.	3.4	3

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73	Differential expression of proteins from plant mitochondria subjected to thermal stress. Biochemical Society Transactions, 1994, 22, 405S-405S.	3.4	3
74	Intracellular-volume measurements of wheat-leaf mesophyll cells and protoplasts. Biochemical Society Transactions, 1984, 12, 850-851.	3.4	2
75	Titration of the external NADH dehydrogenase and the alternative oxidase in plant mitochondria. Biochemical Society Transactions, 1994, 22, 406S-406S.	3.4	2
76	Maesaquinone: A Novel Inhibitor of Plant Mitochondrial Respiratory Enzymes That React with Ubiquinone. IUBMB Life, 2000, 49, 533-537.	3.4	2
77	Membrane potential measurements in wheat-leaf mesophyll protoplasts. Biochemical Society Transactions, 1984, 12, 851-852.	3.4	1
78	The regulation of electron flux in plant mitochondria. Biochemical Society Transactions, 1986, 14, 894-894.	3.4	1
79	Targeting the alternative oxidase for antitrypanosomal drug development. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, e25-e26.	1.0	1
80	Self-assembled proteolipossomes to functionally characterize the alternative oxidase from Moniliophthora perniciosa. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, e65-e66.	1.0	1
81	The effect of Y253F on the activity of the plant alternative oxidase in Schizosaccharomyces pombe mitochondria. Biochemical Society Transactions, 2001, 29, A123-A123.	3.4	0
82	Over-expression of a mitochondrially-located HSP70 alters carbon metabolism in tobacco. Biochemical Society Transactions, 2002, 30, A31-A31.	3.4	0
83	S11.40 Over-expression, purification and crystallisation of the alternative oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S75.	1.0	0
84	S13/4 Structural and biochemical characterisation of the alternative oxidases. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S89.	1.0	0
85	S13.14 Spectroscopic and structural studies of the alternative oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S91-S92.	1.0	0
86	A High-Throughput Assay for Modulators of NNT Activity in Permeabilized Yeast Cells. Journal of Biomolecular Screening, 2011, 16, 734-743.	2.6	0
87	Structure of the trypanosomal alternative oxidase: Opportunities for rational drug design to treat trypanosomiasis. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, e127.	1.0	0
88	Expression and Crystallization of the Plant Alternative Oxidase. Methods in Molecular Biology, 2015, 1305, 281-299.	0.9	0
89	Discovery of New Class of Trypanocidal Compounds Targeting the Energy Metabolism of African Trypanosomes. Open Forum Infectious Diseases, 2017, 4, S121-S121.	0.9	0
90	Electron supply to the Q-junction: assessment of mitochondrial respiration, H2O2 flux and the redox state of the Q-pool. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, e61.	1.0	0