## **Charles Affourtit**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mitochondrial superoxide: production, biological effects, and activation of uncoupling proteins. Free Radical Biology and Medicine, 2004, 37, 755-767.	1.3	900
2	Function of the alternative oxidase: is it still a scavenger?. Trends in Plant Science, 2002, 7, 478-481.	4.3	176
3	Exploring the molecular nature of alternative oxidase regulation and catalysis. FEBS Letters, 2002, 510, 121-126.	1.3	116
4	Control of plant mitochondrial respiration. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1504, 58-69.	0.5	114
5	Uncoupling protein-2 contributes significantly to high mitochondrial proton leak in INS-1E insulinoma cells and attenuates glucose-stimulated insulin secretion. Biochemical Journal, 2008, 409, 199-204.	1.7	80
6	Uncoupling protein-2 attenuates glucose-stimulated insulin secretion in INS-1E insulinoma cells by lowering mitochondrial reactive oxygen species. Free Radical Biology and Medicine, 2011, 50, 609-616.	1.3	76
7	Measurement of Proton Leak and Electron Leak in Isolated Mitochondria. Methods in Molecular Biology, 2012, 810, 165-182.	0.4	72
8	Structure of the Plant Alternative Oxidase. Journal of Biological Chemistry, 2002, 277, 1190-1194.	1.6	67
9	Energization-dependent endogenous activation of proton conductance in skeletal muscle mitochondria. Biochemical Journal, 2008, 412, 131-139.	1.7	64
10	On the role of uncoupling protein-2 in pancreatic beta cells. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 973-979.	0.5	62
11	Stronger control of ATP/ADP by proton leak in pancreatic β-cells than skeletal muscle mitochondria. Biochemical Journal, 2006, 393, 151-159.	1.7	55
12	Compelling EPR evidence that the alternative oxidase is a diiron carboxylate protein. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 327-330.	0.5	50
13	Novel insights into pancreatic β-cell glucolipotoxicity from real-time functional analysis of mitochondrial energy metabolism in INS-1E insulinoma cells. Biochemical Journal, 2013, 456, 417-426.	1.7	50
14	New Insights into the Regulation of Plant Succinate Dehydrogenase. Journal of Biological Chemistry, 2001, 276, 32567-32574.	1.6	48
15	Mitochondrial involvement in skeletal muscle insulin resistance: A case of imbalanced bioenergetics. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1678-1693.	0.5	48
16	On the mechanism by which dietary nitrate improves human skeletal muscle function. Frontiers in Physiology, 2015, 6, 211.	1.3	45
17	Chapter 23 Measuring Mitochondrial Bioenergetics in INS-1E Insulinoma Cells. Methods in Enzymology, 2009, 457, 405-424.	0.4	44
18	Insulin acutely improves mitochondrial function of rat and human skeletal muscle by increasing coupling efficiency of oxidative phosphorylation. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 270-276.	0.5	44

**CHARLES AFFOURTIT** 

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19	Novel Uncoupling Proteins. Novartis Foundation Symposium, 0, , 70-91.	1.2	42
20	Constitutive activity ofSauromatum guttatumalternative oxidase inSchizosaccharomyces pombeimplicates residues in addition to conserved cysteines in α-keto acid activation. FEBS Letters, 2005, 579, 331-336.	1.3	40
21	Dynamic regulation of uncoupling protein 2 content in INS-1E insulinoma cells. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1378-1383.	0.5	40
22	A Highly Conserved Glutamate Residue (Glu-270) Is Essential for Plant Alternative Oxidase Activity. Journal of Biological Chemistry, 1998, 273, 30301-30305.	1.6	39
23	Palmitate-induced impairment of glucose-stimulated insulin secretion precedes mitochondrial dysfunction in mouse pancreatic islets. Biochemical Journal, 2016, 473, 487-496.	1.7	39
24	Mutagenesis of the Sauromatum guttatum alternative oxidase reveals features important for oxygen binding and catalysis. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 732-737.	0.5	33
25	Functional Expression of the Plant Alternative Oxidase Affects Growth of the Yeast Schizosaccharomyces pombe. Journal of Biological Chemistry, 1999, 274, 6212-6218.	1.6	32
26	Mitochondrial Activity and Skeletal Muscle Insulin Resistance in Kidney Disease. International Journal of Molecular Sciences, 2019, 20, 2751.	1.8	30
27	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.	0.5	28
28	Direct Substrate Delivery Into Mitochondrial Fission–Deficient Pancreatic Islets Rescues Insulin Secretion. Diabetes, 2017, 66, 1247-1257.	0.3	28
29	Interaction of purified alternative oxidase from thermogenic <i>Arum maculatum</i> with pyruvate. FEBS Letters, 2011, 585, 397-401.	1.3	26
30	Pro-inflammatory cytokines attenuate glucose-stimulated insulin secretion from INS-1E insulinoma cells by restricting mitochondrial pyruvate oxidation capacity – Novel mechanistic insight from real-time analysis of oxidative phosphorylation. PLoS ONE, 2018, 13, e0199505.	1.1	26
31	Temperature-dependent changes in respiration rates and redox poise of the ubiquinone pool in protoplasts and isolated mitochondria of potato leaves. Physiologia Plantarum, 2007, 129, 175-184.	2.6	24
32	Mitochondrial uncoupling protein 2 in pancreatic <i>β</i> â€cells. Diabetes, Obesity and Metabolism, 2010, 12, 134-140.	2.2	22
33	Purification of the plant alternative oxidase from Arum maculatum: measurement, stability and metal requirement. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1608, 181-189.	0.5	20
34	Palmitate-induced changes in energy demand cause reallocation of ATP supply in rat and human skeletal muscle cells. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1403-1411.	0.5	20
35	Uncoupling protein-2 attenuates palmitoleate protection against the cytotoxic production of mitochondrial reactive oxygen species in INS-1E insulinoma cells. Redox Biology, 2015, 4, 14-22.	3.9	19
36	Novel uncoupling proteins. Novartis Foundation Symposium, 2007, 287, 70-80; discussion 80-91.	1.2	19

**CHARLES AFFOURTIT** 

#	Article	IF	CITATIONS
37	Control of pancreatic Î <sup>2</sup> -cell bioenergetics. Biochemical Society Transactions, 2018, 46, 555-564.	1.6	18
38	Identification of a mitochondrial alcohol dehydrogenase in Schizosaccharomyces pombe: new insights into energy metabolism. Biochemical Journal, 2007, 401, 459-464.	1.7	15
39	Measurement of Proton Leak in Isolated Mitochondria. Methods in Molecular Biology, 2018, 1782, 157-170.	0.4	8
40	The active site of the plant alternative oxidase: structural and mechanistic considerations. Pest Management Science, 2000, 56, 31-38.	1.7	7
41	Mitochondrial uncoupling protein-2 is not involved in palmitate-induced impairment of glucose-stimulated insulin secretion in INS-1E insulinoma cells and is not needed for the amplification of insulin release. Biochemistry and Biophysics Reports, 2015, 1, 8-15.	0.7	7
42	Developmental regulation of respiratory activity and protein import in plant mitochondria. Biochemical Society Transactions, 1996, 24, 746-749.	1.6	5
43	The relationship between the in situ reduction level of the cytochromecpool ofAzorhizobium caulinodansgrowing in a chemostat with NH4+or N2as the N source and the total activity of cytochromecoxidases. FEMS Microbiology Letters, 1995, 129, 149-155.	0.7	4
44	Oxygen protection of nitrogen fixation in free-living Azorhizobium caulinodans: the role of cytochrome aa3. Microbiology (United Kingdom), 1998, 144, 1773-1782.	0.7	4
45	Respiratory Parameters for the Classification of Dysfunctional Insulin Secretion by Pancreatic Islets. Metabolites, 2021, 11, 405.	1.3	4
46	Measuring Mitochondrial Uncoupling Protein-2 Level and Activity in Insulinoma Cells. Methods in Enzymology, 2013, 528, 257-267.	0.4	3
47	The relationship between the in situ reduction level of the cytochrome pool of growing in a chemostat with NH or N as the N source and the total activity of cytochrome oxidases. FEMS Microbiology Letters, 1995, 129, 149-155.	0.7	2
48	Maesaquinone: A Novel Inhibitor of Plant Mitochondrial Respiratory Enzymes That React with Ubiquinone. IUBMB Life, 2000, 49, 533-537.	1.5	2
49	Acute bioenergetic insulin sensitivity of skeletal muscle cells: ATP-demand-provoked glycolysis contributes to stimulation of ATP supply. Biochemistry and Biophysics Reports, 2022, 30, 101274.	0.7	2
50	Mitochondrial coupling efficiency predicts insulin secretion and classifies dysfunctional properties in pancreatic beta cells. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, e95.	0.5	1
51	Kinetic interaction between oxidases and dehydrogenases in plant mitochondria. Biochemical Society Transactions, 1997, 25, 60S-60S.	1.6	0
52	The effect of Y253F on the activity of the plant alternative oxidase in Schizosaccharomyces pombe mitochondria. Biochemical Society Transactions, 2001, 29, A123-A123.	1.6	0
53	S12.9 Dynamic regulation of UCP2 concentration in INS-1E pancreatic beta-cells. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S77.	0.5	0
54	Uncoupling protein-2 does not mediate palmitate-induced glucolipotoxic defects in oxidative phosphorylation in INS-1E insulinoma cells. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, e35-e36.	0.5	0

#	Article	IF	CITATIONS
55	Nitrite acutely improves mitochondrial coupling efficiency of spontaneously contracting rat myotubes. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, e32-e33.	0.5	0
56	Measuring real-time bioenergetic behaviour of electrically stimulated muscle cells. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, e118.	0.5	0
57	Insights into the active site of the plant alternative oxidase and its relationship to function. , 1999, , 17-36.		0