

Andrew P Wojtovich

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38
papers

1,798
citations

23
h-index

42
g-index

48
ext. papers

2,123
ext. citations

7.8
avg, IF

4.84
L-index

#	Paper	IF	Citations
38	A reversible mitochondrial complex I thiol switch mediates hypoxic avoidance behavior in <i>C. elegans</i> . <i>Nature Communications</i> , 2022 , 13, 2403	17.4	1
37	Optical Control of CD8 T Cell Metabolism and Effector Functions. <i>Frontiers in Immunology</i> , 2021 , 12, 666831	8.1	3
36	Mitochondrial light switches: optogenetic approaches to control metabolism. <i>FEBS Journal</i> , 2020 , 287, 4544-4556	5.7	4
35	Optogenetic control of mitochondrial protonmotive force to impact cellular stress resistance. <i>EMBO Reports</i> , 2020 , 21, e49113	6.5	10
34	Quantification of reactive oxygen species production by the red fluorescent proteins KillerRed, SuperNova and mCherry. <i>Free Radical Biology and Medicine</i> , 2020 , 147, 1-7	7.8	15
33	Neuronal AMPK coordinates mitochondrial energy sensing and hypoxia resistance in <i>C. elegans</i> . <i>FASEB Journal</i> , 2020 , 34, 16333-16347	0.9	3
32	Element-Mediated CRISPR Integration of Transgenes in. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 2629-2635	5.2	7
31	Mitochondrial Reactive Oxygen Species Generated at the Complex-II Matrix or Intermembrane Space Microdomain Have Distinct Effects on Redox Signaling and Stress Sensitivity in. <i>Antioxidants and Redox Signaling</i> , 2019 , 31, 594-607	8.4	24
30	Physiologic Implications of Reactive Oxygen Species Production by Mitochondrial Complex I Reverse Electron Transport. <i>Antioxidants</i> , 2019 , 8,	7.1	35
29	Use the Protonmotive Force: Mitochondrial Uncoupling and Reactive Oxygen Species. <i>Journal of Molecular Biology</i> , 2018 , 430, 3873-3891	6.5	64
28	Quantification of light-induced miniSOG superoxide production using the selective marker, 2-hydroxyethidium. <i>Free Radical Biology and Medicine</i> , 2018 , 116, 134-140	7.8	18
27	Light-induced oxidant production by fluorescent proteins. <i>Free Radical Biology and Medicine</i> , 2018 , 128, 157-164	7.8	31
26	Exercise and Mitochondrial Dynamics: Keeping in Shape with ROS and AMPK. <i>Antioxidants</i> , 2018 , 7,	7.1	55
25	Dihydromunduletone Is a Small-Molecule Selective Adhesion G Protein-Coupled Receptor Antagonist. <i>Molecular Pharmacology</i> , 2016 , 90, 214-24	4.3	31
24	Cardiac Slo2.1 Is Required for Volatile Anesthetic Stimulation of K ⁺ Transport and Anesthetic Preconditioning. <i>Anesthesiology</i> , 2016 , 124, 1065-76	4.3	11
23	Chromophore-Assisted Light Inactivation of Mitochondrial Electron Transport Chain Complex II in <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2016 , 6, 29695	4.9	22
22	Optogenetic control of ROS production. <i>Redox Biology</i> , 2014 , 2, 368-76	11.3	97

21	Direct activation of cell KATP channels with a novel xanthine derivative. <i>Molecular Pharmacology</i> , 2014 , 85, 858-65	4.3	23
20	Physiological consequences of complex II inhibition for aging, disease, and the mKATP channel. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013 , 1827, 598-611	4.6	54
19	Kir6.2 is not the mitochondrial KATP channel but is required for cardioprotection by ischemic preconditioning. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H1439-45	5.2	33
18	A non-cardiomyocyte autonomous mechanism of cardioprotection involving the SLO1 BK channel. <i>PeerJ</i> , 2013 , 1, e48	3.1	32
17	Ischemic preconditioning: the role of mitochondria and aging. <i>Experimental Gerontology</i> , 2012 , 47, 1-7	4.5	62
16	Mitochondrial ATP-sensitive potassium channel activity and hypoxic preconditioning are independent of an inwardly rectifying potassium channel subunit in <i>Caenorhabditis elegans</i> . <i>FEBS Letters</i> , 2012 , 586, 428-34	3.8	18
15	A cell-based phenotypic assay to identify cardioprotective agents. <i>Circulation Research</i> , 2012 , 110, 948-57	5.7	25
14	Redox regulation of the mitochondrial K(ATP) channel in cardioprotection. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011 , 1813, 1309-15	4.9	77
13	SLO-2 is cytoprotective and contributes to mitochondrial potassium transport. <i>PLoS ONE</i> , 2011 , 6, e28287	3.7	52
12	A novel mitochondrial K(ATP) channel assay. <i>Circulation Research</i> , 2010 , 106, 1190-6	15.7	45
11	Nutrient-sensitized screening for drugs that shift energy metabolism from mitochondrial respiration to glycolysis. <i>Nature Biotechnology</i> , 2010 , 28, 249-55	44.5	234
10	An analysis of the effects of Mn ²⁺ on oxidative phosphorylation in liver, brain, and heart mitochondria using state 3 oxidation rate assays. <i>Toxicology and Applied Pharmacology</i> , 2010 , 249, 65-75	4.6	56
9	Mitochondrial biotransformation of omega-(phenoxy)alkanoic acids, 3-(phenoxy)acrylic acids, and omega-(1-methyl-1H-imidazol-2-ylthio)alkanoic acids: a prodrug strategy for targeting cytoprotective antioxidants to mitochondria. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 1441-8	3.4	18
8	The mitochondrial complex II and ATP-sensitive potassium channel interaction: quantitation of the channel in heart mitochondria.. <i>Acta Biochimica Polonica</i> , 2010 , 57,	2	12
7	The mitochondrial complex II and ATP-sensitive potassium channel interaction: quantitation of the channel in heart mitochondria. <i>Acta Biochimica Polonica</i> , 2010 , 57, 431-4	2	8
6	Role of Ca ²⁺ /calmodulin-stimulated cyclic nucleotide phosphodiesterase 1 in mediating cardiomyocyte hypertrophy. <i>Circulation Research</i> , 2009 , 105, 956-64	15.7	129
5	The complex II inhibitor atpenin A5 protects against cardiac ischemia-reperfusion injury via activation of mitochondrial KATP channels. <i>Basic Research in Cardiology</i> , 2009 , 104, 121-9	11.8	76
4	The endogenous mitochondrial complex II inhibitor malonate regulates mitochondrial ATP-sensitive potassium channels: implications for ischemic preconditioning. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008 , 1777, 882-9	4.6	83

3	The <i>C. elegans</i> mitochondrial K ⁺ (ATP) channel: a potential target for preconditioning. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 376, 625-8	3-4	26
2	Chapter 10 The Interaction of Mitochondrial Membranes with Reactive Oxygen and Nitrogen Species. <i>Current Topics in Membranes</i> , 2008 , 211-242	2-2	1
1	Chemogenomic profiling on a genome-wide scale using reverse-engineered gene networks. <i>Nature Biotechnology</i> , 2005 , 23, 377-83	44-5	283