

Andrew P Wojtovich

List of Publications by Citations

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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	Chemogenomic profiling on a genome-wide scale using reverse-engineered gene networks. <i>Nature Biotechnology</i> , 2005 , 23, 377-83	44.5	283
37	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
36	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
35	Optogenetic control of ROS production. <i>Redox Biology</i> , 2014 , 2, 368-76	11.3	97
34	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
33	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
32	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
31	Use the Protonmotive Force: Mitochondrial Uncoupling and Reactive Oxygen Species. <i>Journal of Molecular Biology</i> , 2018 , 430, 3873-3891	6.5	64
30	Ischemic preconditioning: the role of mitochondria and aging. <i>Experimental Gerontology</i> , 2012 , 47, 1-7	4.5	62
29	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
28	Exercise and Mitochondrial Dynamics: Keeping in Shape with ROS and AMPK. <i>Antioxidants</i> , 2018 , 7,	7.1	55
27	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
26	SLO-2 is cytoprotective and contributes to mitochondrial potassium transport. <i>PLoS ONE</i> , 2011 , 6, e28287	7.7	52
25	A novel mitochondrial K(ATP) channel assay. <i>Circulation Research</i> , 2010 , 106, 1190-6	15.7	45
24	Physiologic Implications of Reactive Oxygen Species Production by Mitochondrial Complex I Reverse Electron Transport. <i>Antioxidants</i> , 2019 , 8,	7.1	35
23	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
22	A non-cardiomyocyte autonomous mechanism of cardioprotection involving the SLO1 BK channel. <i>PeerJ</i> , 2013 , 1, e48	3.1	32

21	Light-induced oxidant production by fluorescent proteins. <i>Free Radical Biology and Medicine</i> , 2018 , 128, 157-164	7.8	31
20	Dihydromunduletone Is a Small-Molecule Selective Adhesion G Protein-Coupled Receptor Antagonist. <i>Molecular Pharmacology</i> , 2016 , 90, 214-24	4.3	31
19	The C. elegans mitochondrial K+(ATP) channel: a potential target for preconditioning. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 376, 625-8	3.4	26
18	A cell-based phenotypic assay to identify cardioprotective agents. <i>Circulation Research</i> , 2012 , 110, 948-575.7	5.7	25
17	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
16	Direct activation of K _{ATP} channels with a novel xanthine derivative. <i>Molecular Pharmacology</i> , 2014 , 85, 858-65	4.3	23
15	Chromophore-Assisted Light Inactivation of Mitochondrial Electron Transport Chain Complex II in Caenorhabditis elegans. <i>Scientific Reports</i> , 2016 , 6, 29695	4.9	22
14	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
13	Mitochondrial ATP-sensitive potassium channel activity and hypoxic preconditioning are independent of an inwardly rectifying potassium channel subunit in Caenorhabditis elegans. <i>FEBS Letters</i> , 2012 , 586, 428-34	3.8	18
12	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
11	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
10	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
9	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
8	Optogenetic control of mitochondrial protonmotive force to impact cellular stress resistance. <i>EMBO Reports</i> , 2020 , 21, e49113	6.5	10
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	Element-Mediated CRISPR Integration of Transgenes in. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 2629-2635.2	5.2	7
5	Mitochondrial light switches: optogenetic approaches to control metabolism. <i>FEBS Journal</i> , 2020 , 287, 4544-4556	5.7	4
4	Neuronal AMPK coordinates mitochondrial energy sensing and hypoxia resistance in C. elegans. <i>FASEB Journal</i> , 2020 , 34, 16333-16347	0.9	3

3	Optical Control of CD8 T Cell Metabolism and Effector Functions. <i>Frontiers in Immunology</i> , 2021 , 12, 666-684	3
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	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