Andrew P Wojtovich

List of Publications by Year
in descending order

43	2,396	236833	254106
papers	citations	25 h-index	43 g-index

48	48	48	3775
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chemogenomic profiling on a genome-wide scale using reverse-engineered gene networks. Nature Biotechnology, 2005, 23, 377-383.	9.4	330
2	Nutrient-sensitized screening for drugs that shift energy metabolism from mitochondrial respiration to glycolysis. Nature Biotechnology, 2010, 28, 249-255.	9.4	290
3	Role of Ca ²⁺ /Calmodulin-Stimulated Cyclic Nucleotide Phosphodiesterase 1 in Mediating Cardiomyocyte Hypertrophy. Circulation Research, 2009, 105, 956-964.	2.0	156
4	Optogenetic control of ROS production. Redox Biology, 2014, 2, 368-376.	3.9	124
5	Use the Protonmotive Force: Mitochondrial Uncoupling and Reactive Oxygen Species. Journal of Molecular Biology, 2018, 430, 3873-3891.	2.0	104
6	The endogenous mitochondrial complex II inhibitor malonate regulates mitochondrial ATP-sensitive potassium channels: Implications for ischemic preconditioning. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 882-889.	0.5	96
7	Exercise and Mitochondrial Dynamics: Keeping in Shape with ROS and AMPK. Antioxidants, 2018, 7, 7.	2.2	90
8	The complex II inhibitor atpenin A5 protects against cardiac ischemia-reperfusion injury via activation of mitochondrial KATP channels. Basic Research in Cardiology, 2009, 104, 121-129.	2.5	88
9	Redox regulation of the mitochondrial KATP channel in cardioprotection. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 1309-1315.	1.9	87
10	An analysis of the effects of Mn2+ on oxidative phosphorylation in liver, brain, and heart mitochondria using state 3 oxidation rate assays. Toxicology and Applied Pharmacology, 2010, 249, 65-75.	1.3	71
11	Physiological consequences of complex II inhibition for aging, disease, and the mKATP channel. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 598-611.	0.5	70
12	Ischemic preconditioning: The role of mitochondria and aging. Experimental Gerontology, 2012, 47, 1-7.	1.2	69
13	SLO-2 Is Cytoprotective and Contributes to Mitochondrial Potassium Transport. PLoS ONE, 2011, 6, e28287.	1.1	62
14	Physiologic Implications of Reactive Oxygen Species Production by Mitochondrial Complex I Reverse Electron Transport. Antioxidants, 2019, 8, 285.	2.2	57
15	A Novel Mitochondrial K _{ATP} Channel Assay. Circulation Research, 2010, 106, 1190-1196.	2.0	52
16	Light-induced oxidant production by fluorescent proteins. Free Radical Biology and Medicine, 2018, 128, 157-164.	1.3	51
17	Dihydromunduletone Is a Small-Molecule Selective Adhesion G Proteinâ€“Coupled Receptor Antagonist. Molecular Pharmacology, 2016, 90, 214-224.	1.0	47
18	Mitochondrial Reactive Oxygen Species Generated at the Complex-II Matrix or Intermembrane Space Microdomain Have Distinct Effects on Redox Signaling and Stress Sensitivity inCaenorhabditis elegans. Antioxidants and Redox Signaling, 2019, 31, 594-607.	2.5	44

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19	Kir6.2 is not the mitochondrial K_{ATP} channel but is required for cardioprotection by ischemic preconditioning. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 304, H1439-H1445.	1.5	38
20	Direct Activation ofÎ²-Cell K_{ATP}Channels with a Novel Xanthine Derivative. Molecular Pharmacology, 2014, 85, 858-865.	1.0	34
21	A non-cardiomyocyte autonomous mechanism of cardioprotection involving the SLO1 BK channel. PeerJ, 2013, 1, e48.	0.9	34
22	Quantification of reactive oxygen species production by the red fluorescent proteins KillerRed, SuperNova and mCherry. Free Radical Biology and Medicine, 2020, 147, 1-7.	1.3	31
23	Optogenetic control of mitochondrial protonmotive force to impact cellular stress resistance. EMBO Reports, 2020, 21, e49113.	2.0	31
24	Iron Dysregulation in Mitochondrial Dysfunction and Alzheimerâ€™s Disease. Antioxidants, 2022, 11, 692.	2.2	30
25	The C. elegans mitochondrial K+ATP channel: A potential target for preconditioning. Biochemical and Biophysical Research Communications, 2008, 376, 625-628.	1.0	28
26	A Cell-Based Phenotypic Assay to Identify Cardioprotective Agents. Circulation Research, 2012, 110, 948-957.	2.0	28
27	Chromophore-Assisted Light Inactivation of Mitochondrial Electron Transport Chain Complex II in Caenorhabditis elegans. Scientific Reports, 2016, 6, 29695.	1.6	28
28	Quantification of light-induced miniSOG superoxide production using the selective marker, 2-hydroxyethidium. Free Radical Biology and Medicine, 2018, 116, 134-140.	1.3	25
29	Optical Control of CD8+ T Cell Metabolism and Effector Functions. Frontiers in Immunology, 2021, 12, 666231.	2.2	21
30	Mitochondrial biotransformation of Ï‰-(phenoxy)alkanoic acids, 3-(phenoxy)acrylic acids, and Ï‰-(1-methyl-1H-imidazol-2-ylthio)alkanoic acids: A prodrug strategy for targeting cytoprotective antioxidants to mitochondria. Bioorganic and Medicinal Chemistry, 2010, 18, 1441-1448.	1.4	20
31	Mitochondrial ATPâ€sensitive potassium channel activity and hypoxic preconditioning are independent of an inwardly rectifying potassium channel subunit in Caenorhabditis elegans. FEBS Letters, 2012, 586, 428-434.	1.3	19
32	Redox Signaling Through Compartmentalization of Reactive Oxygen Species: Implications for Health and Disease. Antioxidants and Redox Signaling, 2019, 31, 591-593.	2.5	18
33	The mitochondrial complex II and ATP-sensitive potassium channel interaction: quantitation of the channel in heart mitochondria.. Acta Biochimica Polonica, 2010, 57, .	0.3	18
34	CardiacSlo2.1Is Required for Volatile Anesthetic Stimulation of K+ Transport and Anesthetic Preconditioning. Anesthesiology, 2016, 124, 1065-1076.	1.3	17
35	Mitochondrial light switches: optogenetic approaches to control metabolism. FEBS Journal, 2020, 287, 4544-4556.	2.2	16
36	Mos1 Element-Mediated CRISPR Integration of Transgenes in Caenorhabditis elegans. G3: Genes, Genomes, Genetics, 2019, 9, 2629-2635.	0.8	15

#	Article	IF	Citations
37	Neuronal AMPK coordinates mitochondrial energy sensing and hypoxia resistance inC. elegans. FASEB Journal, 2020, 34, 16333-16347.	0.2	13
38	A reversible mitochondrial complex I thiol switch mediates hypoxic avoidance behavior in C. elegans. Nature Communications, 2022, 13, 2403.	5.8	13
39	Site-specific mitochondrial dysfunction in neurodegeneration. Mitochondrion, 2022, 64, 1-18.	1.6	11
40	The mitochondrial complex II and ATP-sensitive potassium channel interaction: quantitation of the channel in heart mitochondria. Acta Biochimica Polonica, 2010, 57, 431-4.	0.3	8
41	Exploratory Analysis of Associations Between Whole Blood Mitochondrial Gene Expression and Cancer-Related Fatigue Among Breast Cancer Survivors. Nursing Research, 2022, Publish Ahead of Print, .	0.8	2
42	Chapter 10 The Interaction of Mitochondrial Membranes with Reactive Oxygen and Nitrogen Species. Current Topics in Membranes, 2008, , 211-242.	0.5	1
43	Decreased Mitochondrial Membrane Potential Activates the Mitochondrial Unfolded Protein Response. MicroPublication Biology, 2021, 2021, .	0.1	0