

Victor M Darley-USmar

List of Publications by Citations

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303 papers	27,390 citations	86 h-index	157 g-index
321 ext. papers	30,624 ext. citations	6.3 avg, IF	6.71 L-index

#	Paper	IF	Citations
303	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
302	Measuring reactive oxygen and nitrogen species with fluorescent probes: challenges and limitations. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 1-6	7.8	1180
301	Hydrogen sulfide mediates the vasoactivity of garlic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17977-82	11.5	605
300	Cellular mechanisms of redox cell signalling: role of cysteine modification in controlling antioxidant defences in response to electrophilic lipid oxidation products. <i>Biochemical Journal</i> , 2004 , 378, 373-82	3.8	485
299	Deoxymyoglobin is a nitrite reductase that generates nitric oxide and regulates mitochondrial respiration. <i>Circulation Research</i> , 2007 , 100, 654-61	15.7	466
298	Nitric oxide and oxygen radicals: a question of balance. <i>FEBS Letters</i> , 1995 , 369, 131-5	3.8	442
297	Oxidative stress induces vascular calcification through modulation of the osteogenic transcription factor Runx2 by AKT signaling. <i>Journal of Biological Chemistry</i> , 2008 , 283, 15319-27	5.4	429
296	Hypoxia, red blood cells, and nitrite regulate NO-dependent hypoxic vasodilation. <i>Blood</i> , 2006 , 107, 566-74	7.4	408
295	The simultaneous generation of superoxide and nitric oxide can initiate lipid peroxidation in human low density lipoprotein. <i>Free Radical Research Communications</i> , 1992 , 17, 9-20		354
294	Biological aspects of reactive nitrogen species. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999 , 1411, 385-400	4.6	350
293	Assessing bioenergetic function in response to oxidative stress by metabolic profiling. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 1621-35	7.8	310
292	Polarographic measurement of hydrogen sulfide production and consumption by mammalian tissues. <i>Analytical Biochemistry</i> , 2005 , 341, 40-51	3.1	304
291	Nitric oxide and peroxynitrite exert distinct effects on mitochondrial respiration which are differentially blocked by glutathione or glucose. <i>Biochemical Journal</i> , 1996 , 314 (Pt 3), 877-80	3.8	302
290	Integration of cellular bioenergetics with mitochondrial quality control and autophagy. <i>Biological Chemistry</i> , 2012 , 393, 1485-1512	4.5	275
289	Free radicals, mitochondria, and oxidized lipids: the emerging role in signal transduction in vascular cells. <i>Circulation Research</i> , 2006 , 99, 924-32	15.7	270
288	Mitochondria: regulators of signal transduction by reactive oxygen and nitrogen species. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 755-64	7.8	253
287	Mitochondrial reserve capacity in endothelial cells: The impact of nitric oxide and reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 905-14	7.8	248

286	Concentration-dependent effects of nitric oxide on mitochondrial permeability transition and cytochrome c release. <i>Journal of Biological Chemistry</i> , 2000 , 275, 20474-9	5.4	248
285	Blood radicals: reactive nitrogen species, reactive oxygen species, transition metal ions, and the vascular system. <i>Pharmaceutical Research</i> , 1996 , 13, 649-62	4.5	245
284	Autophagy as an essential cellular antioxidant pathway in neurodegenerative disease. <i>Redox Biology</i> , 2014 , 2, 82-90	11.3	244
283	Nitric oxide regulation of tissue free radical injury. <i>Chemical Research in Toxicology</i> , 1996 , 9, 809-20	4	244
282	Nitration of unsaturated fatty acids by nitric oxide-derived reactive nitrogen species peroxynitrite, nitrous acid, nitrogen dioxide, and nitronium ion. <i>Chemical Research in Toxicology</i> , 1999 , 12, 83-92	4	238
281	Cellular metabolic and autophagic pathways: traffic control by redox signaling. <i>Free Radical Biology and Medicine</i> , 2013 , 63, 207-21	7.8	236
280	A review of the mitochondrial and glycolytic metabolism in human platelets and leukocytes: implications for their use as bioenergetic biomarkers. <i>Redox Biology</i> , 2014 , 2, 206-10	11.3	235
279	What part of NO don't you understand? Some answers to the cardinal questions in nitric oxide biology. <i>Journal of Biological Chemistry</i> , 2010 , 285, 19699-704	5.4	235
278	Metformin reverses established lung fibrosis in a bleomycin model. <i>Nature Medicine</i> , 2018 , 24, 1121-1123	30.5	228
277	Importance of the bioenergetic reserve capacity in response to cardiomyocyte stress induced by 4-hydroxynonenal. <i>Biochemical Journal</i> , 2009 , 424, 99-107	3.8	224
276	Nitric oxide inhibition of lipid peroxidation: kinetics of reaction with lipid peroxyl radicals and comparison with alpha-tocopherol. <i>Biochemistry</i> , 1997 , 36, 15216-23	3.2	223
275	Peroxynitrite modification of low-density lipoprotein leads to recognition by the macrophage scavenger receptor. <i>FEBS Letters</i> , 1993 , 330, 181-5	3.8	222
274	Cell signalling by reactive lipid species: new concepts and molecular mechanisms. <i>Biochemical Journal</i> , 2012 , 442, 453-64	3.8	218
273	A causative role for redox cycling of myoglobin and its inhibition by alkalinization in the pathogenesis and treatment of rhabdomyolysis-induced renal failure. <i>Journal of Biological Chemistry</i> , 1998 , 273, 31731-7	5.4	202
272	High fat diet induces dysregulation of hepatic oxygen gradients and mitochondrial function in vivo. <i>Biochemical Journal</i> , 2009 , 417, 183-93	3.8	199
271	Oxidases and peroxidases in cardiovascular and lung disease: new concepts in reactive oxygen species signaling. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 1271-88	7.8	193
270	The Bioenergetic Health Index: a new concept in mitochondrial translational research. <i>Clinical Science</i> , 2014 , 127, 367-73	6.5	185
269	Cell signaling by reactive nitrogen and oxygen species in atherosclerosis. <i>Free Radical Biology and Medicine</i> , 2000 , 28, 1780-94	7.8	178

268	Prevention of diabetic nephropathy in Ins2(+/-)(AkitaJ) mice by the mitochondria-targeted therapy MitoQ. <i>Biochemical Journal</i> , 2010 , 432, 9-19	3.8	176
267	Methods for defining distinct bioenergetic profiles in platelets, lymphocytes, monocytes, and neutrophils, and the oxidative burst from human blood. <i>Laboratory Investigation</i> , 2013 , 93, 690-700	5.9	175
266	Human glutamate cysteine ligase gene regulation through the electrophile response element. <i>Free Radical Biology and Medicine</i> , 2004 , 37, 1152-9	7.8	171
265	Redox regulation of antioxidants, autophagy, and the response to stress: implications for electrophile therapeutics. <i>Free Radical Biology and Medicine</i> , 2014 , 71, 196-207	7.8	168
264	Nanotransducers in cellular redox signaling: modification of thiols by reactive oxygen and nitrogen species. <i>Trends in Biochemical Sciences</i> , 2002 , 27, 489-92	10.3	165
263	The formation of nitric oxide donors from peroxynitrite. <i>British Journal of Pharmacology</i> , 1995 , 116, 1999-2004	8.2	160
262	Specific modification of mitochondrial protein thiols in response to oxidative stress: a proteomics approach. <i>Journal of Biological Chemistry</i> , 2002 , 277, 17048-56	5.4	157
261	Mitochondrially targeted compounds and their impact on cellular bioenergetics. <i>Redox Biology</i> , 2013 , 1, 86-93	11.3	155
260	High throughput two-dimensional blue-native electrophoresis: a tool for functional proteomics of mitochondria and signaling complexes. <i>Proteomics</i> , 2002 , 2, 969-77	4.8	151
259	Modification of the mitochondrial proteome in response to the stress of ethanol-dependent hepatotoxicity. <i>Journal of Biological Chemistry</i> , 2004 , 279, 22092-101	5.4	142
258	Assessing Cardiac Metabolism: A Scientific Statement From the American Heart Association. <i>Circulation Research</i> , 2016 , 118, 1659-701	15.7	142
257	Biphasic effects of 15-deoxy-delta(12,14)-prostaglandin J(2) on glutathione induction and apoptosis in human endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001 , 21, 1846-51	9.4	140
256	Hydrogen sulfide mediates vasoactivity in an O ₂ -dependent manner. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H1953-60	5.2	137
255	Differentiation of SH-SY5Y cells to a neuronal phenotype changes cellular bioenergetics and the response to oxidative stress. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 2007-17	7.8	131
254	Acquisition of temozolomide chemoresistance in gliomas leads to remodeling of mitochondrial electron transport chain. <i>Journal of Biological Chemistry</i> , 2010 , 285, 39759-67	5.4	126
253	Modification of Cytochrome c by 4-hydroxy- 2-nonenal: evidence for histidine, lysine, and arginine-aldehyde adducts. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 1136-47	3.5	125
252	KEAP1-NRF2 signalling and autophagy in protection against oxidative and reductive proteotoxicity. <i>Biochemical Journal</i> , 2015 , 469, 347-55	3.8	124
251	Bioenergetic profile experiment using C2C12 myoblast cells. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	124

250	Mitochondria, nitric oxide, and cardiovascular dysfunction. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 1465-74	7.8	123
249	Formation of F2-isoprostanes during oxidation of human low-density lipoprotein and plasma by peroxynitrite. <i>Circulation Research</i> , 1995 , 77, 335-41	15.7	123
248	Inhibition of autophagy with bafilomycin and chloroquine decreases mitochondrial quality and bioenergetic function in primary neurons. <i>Redox Biology</i> , 2017 , 11, 73-81	11.3	120
247	The oxidation of alpha-tocopherol in human low-density lipoprotein by the simultaneous generation of superoxide and nitric oxide. <i>FEBS Letters</i> , 1993 , 326, 199-203	3.8	119
246	Protein O-GlcNAcylation: a new signaling paradigm for the cardiovascular system. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H13-28	5.2	118
245	Peroxynitrite releases copper from caeruloplasmin: implications for atherosclerosis. <i>FEBS Letters</i> , 1994 , 342, 49-52	3.8	118
244	Hypothesis: the mitochondrial NO(*) signaling pathway, and the transduction of nitrosative to oxidative cell signals: an alternative function for cytochrome C oxidase. <i>Free Radical Biology and Medicine</i> , 2002 , 32, 370-4	7.8	117
243	Interaction of electrophilic lipid oxidation products with mitochondria in endothelial cells and formation of reactive oxygen species. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H1777-87	5.2	115
242	Biochemical characterization of human S-nitrosohemoglobin. Effects on oxygen binding and transnitrosation. <i>Journal of Biological Chemistry</i> , 1999 , 274, 15487-92	5.4	115
241	Bioenergetic function in cardiovascular cells: the importance of the reserve capacity and its biological regulation. <i>Chemico-Biological Interactions</i> , 2011 , 191, 288-95	5	111
240	Nitric oxide-dependent induction of glutathione synthesis through increased expression of gamma-glutamylcysteine synthetase. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 358, 74-82	4.1	110
239	Oxidized LDL induces mitochondrially associated reactive oxygen/nitrogen species formation in endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H852-61	5.2	107
238	Hemin causes mitochondrial dysfunction in endothelial cells through promoting lipid peroxidation: the protective role of autophagy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H1394-409	5.2	104
237	Differential effects of antiretroviral nucleoside analogs on mitochondrial function in HepG2 cells. <i>Antimicrobial Agents and Chemotherapy</i> , 2000 , 44, 496-503	5.9	104
236	Fatal lactic acidosis in infancy with a defect of complex III of the respiratory chain. <i>Pediatric Research</i> , 1989 , 25, 553-9	3.2	104
235	N-acetylcysteine targets 5 lipoxygenase-derived, toxic lipids and can synergize with prostaglandin E to inhibit ferroptosis and improve outcomes following hemorrhagic stroke in mice. <i>Annals of Neurology</i> , 2018 , 84, 854-872	9.4	103
234	Accumulation of 15-deoxy-delta(12,14)-prostaglandin J2 adduct formation with Keap1 over time: effects on potency for intracellular antioxidant defence induction. <i>Biochemical Journal</i> , 2008 , 411, 297-306	3.8	101
233	Glucose stimulation of transforming growth factor-beta bioactivity in mesangial cells is mediated by thrombospondin-1. <i>American Journal of Pathology</i> , 2000 , 157, 1353-63	5.8	100

232	Mechanisms of cell signaling by nitric oxide and peroxynitrite: from mitochondria to MAP kinases. <i>Antioxidants and Redox Signaling</i> , 2001 , 3, 215-29	8.4	100
231	Metabolic Reprogramming Is Required for Myofibroblast Contractility and Differentiation. <i>Journal of Biological Chemistry</i> , 2015 , 290, 25427-38	5.4	98
230	Mapping the Human Platelet Lipidome Reveals Cytosolic Phospholipase A2 as a Regulator of Mitochondrial Bioenergetics during Activation. <i>Cell Metabolism</i> , 2016 , 23, 930-44	24.6	98
229	Control of mitochondrial respiration by NO*, effects of low oxygen and respiratory state. <i>Journal of Biological Chemistry</i> , 2003 , 278, 31603-9	5.4	97
228	Cytoprotection against oxidative stress and the regulation of glutathione synthesis. <i>Biological Chemistry</i> , 2003 , 384, 527-37	4.5	97
227	Nitrosation of uric acid by peroxynitrite. Formation of a vasoactive nitric oxide donor. <i>Journal of Biological Chemistry</i> , 1998 , 273, 24491-7	5.4	97
226	Mitophagy mechanisms and role in human diseases. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 53, 127-33	5.6	96
225	The induction of GSH synthesis by nanomolar concentrations of NO in endothelial cells: a role for gamma-glutamylcysteine synthetase and gamma-glutamyl transpeptidase. <i>FEBS Letters</i> , 1999 , 448, 292-6	3.8	96
224	Regulation of autophagy by protein post-translational modification. <i>Laboratory Investigation</i> , 2015 , 95, 14-25	5.9	95
223	The role of iNOS in alcohol-dependent hepatotoxicity and mitochondrial dysfunction in mice. <i>Hepatology</i> , 2004 , 40, 565-73	11.2	93
222	Nitroxa: the pathological consequence of dysfunction in the nitric oxide-cytochrome c oxidase signaling pathway. <i>Free Radical Biology and Medicine</i> , 2005 , 38, 297-306	7.8	91
221	S-adenosylmethionine prevents chronic alcohol-induced mitochondrial dysfunction in the rat liver. <i>American Journal of Physiology - Renal Physiology</i> , 2006 , 291, G857-67	5.1	88
220	Distinct effects of rotenone, 1-methyl-4-phenylpyridinium and 6-hydroxydopamine on cellular bioenergetics and cell death. <i>PLoS ONE</i> , 2012 , 7, e44610	3.7	87
219	Reduction of Cu(II) by lipid hydroperoxides: implications for the copper-dependent oxidation of low-density lipoprotein. <i>Biochemical Journal</i> , 1997 , 322 (Pt 2), 425-33	3.8	87
218	Mitochondria-targeted ubiquinone (MitoQ) decreases ethanol-dependent micro and macro hepatosteatosis. <i>Hepatology</i> , 2011 , 54, 153-63	11.2	86
217	Formation of nanomolar concentrations of S-nitroso-albumin in human plasma by nitric oxide. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 688-96	7.8	86
216	Cytochrome c is cross-linked to subunit II of cytochrome c oxidase by a water-soluble carbodiimide. <i>Biochemistry</i> , 1982 , 21, 3857-62	3.2	85
215	Activation of mitogen-activated protein kinases by lysophosphatidylcholine-induced mitochondrial reactive oxygen species generation in endothelial cells. <i>American Journal of Pathology</i> , 2006 , 168, 1737-48	5.8	84

214	Exosomal transfer of mitochondria from airway myeloid-derived regulatory cells to T cells. <i>Redox Biology</i> , 2018 , 18, 54-64	11.3	84
213	Peroxynitrite and atherosclerosis. <i>Biochemical Society Transactions</i> , 1993 , 21, 358-62	5.1	83
212	Chlorination and nitration of soy isoflavones. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 368, 265-75	4.1	82
211	Redox cycling of human methaemoglobin by H ₂ O ₂ yields persistent ferryl iron and protein based radicals. <i>Free Radical Research</i> , 1996 , 25, 117-23	4	82
210	DDIS-24. DECREASE IN GLIOBLASTOMA GROWTH IN VITRO WITH TREATMENT OF NOVEL ANALOGS OF GLUCOSE TRANSPORTER INHIBITORS. <i>Neuro-Oncology</i> , 2019 , 21, vi68-vi68	1	78
209	DDIS-04. COMPOUNDS IDENTIFIED BY STRUCTURE BASED VIRTUAL SCREENING DECREASE GBM BTIC GROWTH AND GLUCOSE UPTAKE. <i>Neuro-Oncology</i> , 2018 , 20, vi69-vi70	1	78
208	Role of cellular bioenergetics in smooth muscle cell proliferation induced by platelet-derived growth factor. <i>Biochemical Journal</i> , 2010 , 428, 255-67	3.8	77
207	Protein O-linked N-acetylglucosamine: a novel effector of cardiomyocyte metabolism and function. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 538-49	5.8	74
206	15-Lipoxygenase catalytically consumes nitric oxide and impairs activation of guanylate cyclase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 20083-91	5.4	73
205	Glutaminolysis is required for transforming growth factor- β -induced myofibroblast differentiation and activation. <i>Journal of Biological Chemistry</i> , 2018 , 293, 1218-1228	5.4	73
204	Regulation of vascular smooth muscle cell bioenergetic function by protein glutathiolation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 285-95	4.6	70
203	Mitochondrial function in response to cardiac ischemia-reperfusion after oral treatment with quercetin. <i>Free Radical Biology and Medicine</i> , 2002 , 32, 1220-8	7.8	70
202	Nitric oxide and cGMP-dependent protein kinase regulation of glucose-mediated thrombospondin 1-dependent transforming growth factor-beta activation in mesangial cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 9880-8	5.4	70
201	The role of GABARAP1/GEC1 in autophagic flux and mitochondrial quality control in MDA-MB-436 breast cancer cells. <i>Autophagy</i> , 2014 , 10, 986-1003	10.2	68
200	L-arginine chlorination products inhibit endothelial nitric oxide production. <i>Journal of Biological Chemistry</i> , 2001 , 276, 27159-65	5.4	68
199	Discovery and Optimization of Potent, Cell-Active Pyrazole-Based Inhibitors of Lactate Dehydrogenase (LDH). <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 9184-9204	8.3	67
198	Oxidative modification of hepatic mitochondria protein thiols: effect of chronic alcohol consumption. <i>American Journal of Physiology - Renal Physiology</i> , 2004 , 286, G521-7	5.1	67
197	Addition of carbonic anhydrase 9 inhibitor SLC-0111 to temozolomide treatment delays glioblastoma growth in vivo. <i>JCI Insight</i> , 2017 , 2,	9.9	67

196	Mechanisms of the interaction of nitroxyl with mitochondria. <i>Biochemical Journal</i> , 2004 , 379, 359-66	3.8	66
195	Estrogen restores endothelial cell function in an experimental model of vascular injury. <i>Circulation</i> , 1997 , 96, 1624-30	16.7	66
194	NADPH Oxidase 4 (Nox4) Suppresses Mitochondrial Biogenesis and Bioenergetics in Lung Fibroblasts via a Nuclear Factor Erythroid-derived 2-like 2 (Nrf2)-dependent Pathway. <i>Journal of Biological Chemistry</i> , 2017 , 292, 3029-3038	5.4	65
193	O-GlcNAcylation and neurodegeneration. <i>Brain Research Bulletin</i> , 2017 , 133, 80-87	3.9	65
192	Covalent complex between yeast cytochrome c and beef heart cytochrome c oxidase which is active in electron transfer. <i>Biochemistry</i> , 1981 , 20, 7046-53	3.2	65
191	Mitochondrial genetic background modulates bioenergetics and susceptibility to acute cardiac volume overload. <i>Biochemical Journal</i> , 2013 , 455, 157-67	3.8	63
190	Induction of the permeability transition and cytochrome c release by 15-deoxy-Delta12,14-prostaglandin J2 in mitochondria. <i>Biochemical Journal</i> , 2006 , 394, 185-95	3.8	63
189	Role of calcium and superoxide dismutase in sensitizing mitochondria to peroxynitrite-induced permeability transition. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H3946-52	5.2	62
188	Nitration of unsaturated fatty acids by nitric oxide-derived reactive species. <i>Methods in Enzymology</i> , 1999 , 301, 454-70	1.7	62
187	The Role of Autophagy, Mitophagy and Lysosomal Functions in Modulating Bioenergetics and Survival in the Context of Redox and Proteotoxic Damage: Implications for Neurodegenerative Diseases 2016 , 7, 150-62		62
186	Enhanced cardiac Akt/protein kinase B signaling contributes to pathological cardiac hypertrophy in part by impairing mitochondrial function via transcriptional repression of mitochondrion-targeted nuclear genes. <i>Molecular and Cellular Biology</i> , 2015 , 35, 831-46	4.8	61
185	Evidence for peroxynitrite as a signaling molecule in flow-dependent activation of c-Jun NH(2)-terminal kinase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H1647-53	5.2	61
184	Metabolic plasticity in resting and thrombin activated platelets. <i>PLoS ONE</i> , 2015 , 10, e0123597	3.7	59
183	Chronic exposure to nitric oxide alters the free iron pool in endothelial cells: role of mitochondrial respiratory complexes and heat shock proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 384-9	11.5	59
182	Effects of pyrrolidine dithiocarbamate on endothelial cells: protection against oxidative stress. <i>Free Radical Biology and Medicine</i> , 1999 , 26, 1138-45	7.8	59
181	Peroxynitrite irreversibly decreases diastolic and systolic function in cardiac muscle. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 1386-92	7.8	58
180	Mitochondrial proteomics in free radical research. <i>Free Radical Biology and Medicine</i> , 2005 , 38, 175-88	7.8	57
179	Cardiomyocyte mitochondrial oxidative stress and cytoskeletal breakdown in the heart with a primary volume overload. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 308, H651-63	5.2	56

178	Lung Tumor Cell-Derived Exosomes Promote M2 Macrophage Polarization. <i>Cells</i> , 2020 , 9,	7.9	56
177	Induction of glutathione synthesis by oxidized low-density lipoprotein and 1-palmitoyl-2-arachidonyl phosphatidylcholine: protection against quinone-mediated oxidative stress. <i>Biochemical Journal</i> , 2002 , 362, 51-59	3.8	55
176	Endothelial dysfunction is induced by proinflammatory oxidant hypochlorous acid. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H1469-75	5.2	55
175	Changes in mitochondrial matrix free calcium in perfused rat hearts subjected to hypoxia-reoxygenation. <i>Journal of Molecular and Cellular Cardiology</i> , 1993 , 25, 949-58	5.8	55
174	Inhibition of mitochondrial protein synthesis results in increased endothelial cell susceptibility to nitric oxide-induced apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 6643-8	11.5	53
173	SIRT3 diminishes inflammation and mitigates endotoxin-induced acute lung injury. <i>JCI Insight</i> , 2019 , 4,	9.9	53
172	A biphasic effect of TNF- α in regulation of the Keap1/Nrf2 pathway in cardiomyocytes. <i>Redox Biology</i> , 2016 , 9, 77-89	11.3	52
171	Polyphenols, inflammatory response, and cancer prevention: chlorination of isoflavones by human neutrophils. <i>Journal of Nutrition</i> , 2003 , 133, 3773S-3777S	4.1	52
170	Enhanced Antioxidant Activity After Chlorination of Quercetin by Hypochlorous Acid. <i>Alcoholism: Clinical and Experimental Research</i> , 2001 , 25, 434-443	3.7	52
169	Mitochondrial targeting of the electrophilic lipid 15-deoxy-Delta12,14-prostaglandin J2 increases apoptotic efficacy via redox cell signalling mechanisms. <i>Biochemical Journal</i> , 2010 , 426, 31-41	3.8	51
168	O-GlcNAc regulation of autophagy and β -synuclein homeostasis; implications for Parkinson's disease. <i>Molecular Brain</i> , 2017 , 10, 32	4.5	50
167	Bioenergetics and the oxidative burst: protocols for the isolation and evaluation of human leukocytes and platelets. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	50
166	Mechanism by which alcohol and wine polyphenols affect coronary heart disease risk. <i>Annals of Epidemiology</i> , 2007 , 17, S24-31	6.4	50
165	Increased sensitivity of mitochondrial respiration to inhibition by nitric oxide in cardiac hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2001 , 33, 69-82	5.8	50
164	The electron transfer system of <i>Pseudomonas aeruginosa</i> : a study of the pH-dependent transitions between redox forms of azurin and cytochrome c551. <i>Journal of Inorganic Biochemistry</i> , 1981 , 14, 327-338	4.2	50
163	Obesity, aerobic exercise, and vascular disease: the role of oxidant stress. <i>Obesity</i> , 2002 , 10, 964-8		49
162	Targeting Glycolysis through Inhibition of Lactate Dehydrogenase Impairs Tumor Growth in Preclinical Models of Ewing Sarcoma. <i>Cancer Research</i> , 2019 , 79, 5060-5073	10.1	48
161	Novel interactions of mitochondria and reactive oxygen/nitrogen species in alcohol mediated liver disease. <i>World Journal of Gastroenterology</i> , 2007 , 13, 4967-73	5.6	48

160	Nitric oxide and hypoxia exacerbate alcohol-induced mitochondrial dysfunction in hepatocytes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011 , 1807, 1573-82	4.6	47
159	Beyond ERalpha and ERbeta: estrogen receptor binding is only part of the isoflavone story. <i>Journal of Nutrition</i> , 2000 , 130, 656S-7S	4.1	47
158	Bioenergetic and autophagic control by Sirt3 in response to nutrient deprivation in mouse embryonic fibroblasts. <i>Biochemical Journal</i> , 2013 , 454, 249-57	3.8	46
157	Mitochondria-targeted heme oxygenase-1 decreases oxidative stress in renal epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 305, F255-64	4.3	45
156	The interplay of nitric oxide and peroxynitrite with signal transduction pathways: implications for disease. <i>Seminars in Perinatology</i> , 1997 , 21, 351-66	3.3	45
155	Mitoquinone ameliorates pressure overload-induced cardiac fibrosis and left ventricular dysfunction in mice. <i>Redox Biology</i> , 2019 , 21, 101100	11.3	45
154	Oxidized low-density lipoprotein and 15-deoxy-delta 12,14-PGJ2 increase mitochondrial complex I activity in endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H2298-308	5.2	44
153	Integrative metabolomics and transcriptomics signatures of clinical tolerance to Plasmodium vivax reveal activation of innate cell immunity and T cell signaling. <i>Redox Biology</i> , 2018 , 17, 158-170	11.3	43
152	The electrophile responsive proteome: integrating proteomics and lipidomics with cellular function. <i>Antioxidants and Redox Signaling</i> , 2012 , 17, 1580-9	8.4	43
151	Chronic alcohol consumption increases the sensitivity of rat liver mitochondrial respiration to inhibition by nitric oxide. <i>Hepatology</i> , 2003 , 38, 141-7	11.2	43
150	Mitochondrial function and autophagy: integrating proteotoxic, redox, and metabolic stress in Parkinson's disease. <i>Journal of Neurochemistry</i> , 2018 , 144, 691-709	6	42
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