

Andreas Daiber

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.

251 papers	14,399 citations	72 h-index	111 g-index
287 ext. papers	17,341 ext. citations	7 avg, IF	6.85 L-index

#	Paper	IF	Citations
251	Cardiovascular disease burden from ambient air pollution in Europe reassessed using novel hazard ratio functions. <i>European Heart Journal</i> , 2019 , 40, 1590-1596	9.5	349
250	Explaining the phenomenon of nitrate tolerance. <i>Circulation Research</i> , 2005 , 97, 618-28	15.7	346
249	Lysozyme M-positive monocytes mediate angiotensin II-induced arterial hypertension and vascular dysfunction. <i>Circulation</i> , 2011 , 124, 1370-81	16.7	332
248	Nitric oxide, tetrahydrobiopterin, oxidative stress, and endothelial dysfunction in hypertension. <i>Antioxidants and Redox Signaling</i> , 2008 , 10, 1115-26	8.4	319
247	Vascular consequences of endothelial nitric oxide synthase uncoupling for the activity and expression of the soluble guanylyl cyclase and the cGMP-dependent protein kinase. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 1551-7	9.4	277
246	Transcription Factor NRF2 as a Therapeutic Target for Chronic Diseases: A Systems Medicine Approach. <i>Pharmacological Reviews</i> , 2018 , 70, 348-383	22.5	271
245	Redox signaling (cross-talk) from and to mitochondria involves mitochondrial pores and reactive oxygen species. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 897-906	4.6	266
244	Targeting vascular (endothelial) dysfunction. <i>British Journal of Pharmacology</i> , 2017 , 174, 1591-1619	8.6	248
243	Antioxidant effects of resveratrol in the cardiovascular system. <i>British Journal of Pharmacology</i> , 2017 , 174, 1633-1646	8.6	248
242	Central role of mitochondrial aldehyde dehydrogenase and reactive oxygen species in nitroglycerin tolerance and cross-tolerance. <i>Journal of Clinical Investigation</i> , 2004 , 113, 482-489	15.9	236
241	Pathophysiological role of oxidative stress in systolic and diastolic heart failure and its therapeutic implications. <i>European Heart Journal</i> , 2015 , 36, 2555-64	9.5	227
240	Vascular Inflammation and Oxidative Stress: Major Triggers for Cardiovascular Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 7092151	6.7	190
239	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017 , 13, 94-162	11.3	185
238	eNOS uncoupling in cardiovascular diseases--the role of oxidative stress and inflammation. <i>Current Pharmaceutical Design</i> , 2014 , 20, 3579-94	3.3	177
237	Mitochondrial redox signaling: Interaction of mitochondrial reactive oxygen species with other sources of oxidative stress. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 308-24	8.4	170
236	Manganese superoxide dismutase and aldehyde dehydrogenase deficiency increase mitochondrial oxidative stress and aggravate age-dependent vascular dysfunction. <i>Cardiovascular Research</i> , 2008 , 80, 280-9	9.9	170
235	Molecular mechanisms of the crosstalk between mitochondria and NADPH oxidase through reactive oxygen species-studies in white blood cells and in animal models. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 247-66	8.4	169

234	The sodium-glucose co-transporter 2 inhibitor empagliflozin improves diabetes-induced vascular dysfunction in the streptozotocin diabetes rat model by interfering with oxidative stress and glucotoxicity. <i>PLoS ONE</i> , 2014 , 9, e112394	3.7	167
233	Environmental Noise and the Cardiovascular System. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 688-697	15.1	165
232	Nebivolol inhibits superoxide formation by NADPH oxidase and endothelial dysfunction in angiotensin II-treated rats. <i>Hypertension</i> , 2006 , 48, 677-84	8.5	164
231	Antioxidants in Translational Medicine. <i>Antioxidants and Redox Signaling</i> , 2015 , 23, 1130-43	8.4	160
230	Oxidative stress and mitochondrial aldehyde dehydrogenase activity: a comparison of pentaerythritol tetranitrate with other organic nitrates. <i>Molecular Pharmacology</i> , 2004 , 66, 1372-82	4.3	159
229	Crosstalk of mitochondria with NADPH oxidase via reactive oxygen and nitrogen species signalling and its role for vascular function. <i>British Journal of Pharmacology</i> , 2017 , 174, 1670-1689	8.6	153
228	Mitochondrial Oxidative Stress, Mitochondrial DNA Damage and Their Role in Age-Related Vascular Dysfunction. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 15918-53	6.3	153
227	Deficiency of glutathione peroxidase-1 accelerates the progression of atherosclerosis in apolipoprotein E-deficient mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 850-7	9.4	149
226	Measurement of NAD(P)H oxidase-derived superoxide with the luminol analogue L-012. <i>Free Radical Biology and Medicine</i> , 2004 , 36, 101-11	7.8	144
225	Interleukin 17 drives vascular inflammation, endothelial dysfunction, and arterial hypertension in psoriasis-like skin disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2658-68	9.4	140
224	Nitrate therapy: new aspects concerning molecular action and tolerance. <i>Circulation</i> , 2011 , 123, 2132-44	16.7	139
223	Glucose-independent improvement of vascular dysfunction in experimental sepsis by dipeptidyl-peptidase 4 inhibition. <i>Cardiovascular Research</i> , 2012 , 96, 140-9	9.9	136
222	Resveratrol reverses endothelial nitric-oxide synthase uncoupling in apolipoprotein E knockout mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 335, 149-54	4.7	133
221	Conversion of biliverdin to bilirubin by biliverdin reductase contributes to endothelial cell protection by heme oxygenase-1-evidence for direct and indirect antioxidant actions of bilirubin. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 49, 186-95	5.8	133
220	The SGLT2 inhibitor empagliflozin improves the primary diabetic complications in ZDF rats. <i>Redox Biology</i> , 2017 , 13, 370-385	11.3	130
219	Nebivolol prevents vascular NOS III uncoupling in experimental hyperlipidemia and inhibits NADPH oxidase activity in inflammatory cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003 , 23, 615-21	9.4	129
218	Effects of gaseous and solid constituents of air pollution on endothelial function. <i>European Heart Journal</i> , 2018 , 39, 3543-3550	9.5	126
217	Does nitric oxide mediate the vasodilator activity of nitroglycerin?. <i>Circulation Research</i> , 2003 , 93, e104-12	13.7	126

216	Uncoupling of Endothelial Nitric Oxide Synthase in Perivascular Adipose Tissue of Diet-Induced Obese Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 78-85	9.4	124
215	Role of reduced lipoic acid in the redox regulation of mitochondrial aldehyde dehydrogenase (ALDH-2) activity. Implications for mitochondrial oxidative stress and nitrate tolerance. <i>Journal of Biological Chemistry</i> , 2007 , 282, 792-9	5.4	122
214	Direct Antioxidant Properties of Bilirubin and Biliverdin. Is there a Role for Biliverdin Reductase?. <i>Frontiers in Pharmacology</i> , 2012 , 3, 30	5.6	120
213	First evidence for a crosstalk between mitochondrial and NADPH oxidase-derived reactive oxygen species in nitroglycerin-triggered vascular dysfunction. <i>Antioxidants and Redox Signaling</i> , 2008 , 10, 1435-47	8.4	120
212	Effects of noise on vascular function, oxidative stress, and inflammation: mechanistic insight from studies in mice. <i>European Heart Journal</i> , 2017 , 38, 2838-2849	9.5	117
211	Specific nitration at tyrosine 430 revealed by high resolution mass spectrometry as basis for redox regulation of bovine prostacyclin synthase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 12813-9	5.4	112
210	Differential effects of diabetes on the expression of the gp91phox homologues nox1 and nox4. <i>Free Radical Biology and Medicine</i> , 2005 , 39, 381-91	7.8	108
209	Mechanisms underlying recoupling of eNOS by HMG-CoA reductase inhibition in a rat model of streptozotocin-induced diabetes mellitus. <i>Atherosclerosis</i> , 2008 , 198, 65-76	3.1	106
208	Redox regulation of genome stability by effects on gene expression, epigenetic pathways and DNA damage/repair. <i>Redox Biology</i> , 2015 , 5, 275-289	11.3	105
207	One enzyme, two functions: PON2 prevents mitochondrial superoxide formation and apoptosis independent from its lactonase activity. <i>Journal of Biological Chemistry</i> , 2010 , 285, 24398-403	5.4	105
206	Detection of superoxide and peroxynitrite in model systems and mitochondria by the luminol analogue L-012. <i>Free Radical Research</i> , 2004 , 38, 259-69	4	105
205	Free radical biology of the cardiovascular system. <i>Clinical Science</i> , 2012 , 123, 73-91	6.5	104
204	AT1-receptor blockade by telmisartan upregulates GTP-cyclohydrolase I and protects eNOS in diabetic rats. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 619-26	7.8	102
203	New insights into bioactivation of organic nitrates, nitrate tolerance and cross-tolerance. <i>Clinical Research in Cardiology</i> , 2008 , 97, 12-20	6.1	102
202	New Therapeutic Implications of Endothelial Nitric Oxide Synthase (eNOS) Function/Dysfunction in Cardiovascular Disease. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	102
201	Role for peroxynitrite in the inhibition of prostacyclin synthase in nitrate tolerance. <i>Journal of the American College of Cardiology</i> , 2003 , 42, 1826-34	15.1	101
200	Central role of mitochondrial aldehyde dehydrogenase and reactive oxygen species in nitroglycerin tolerance and cross-tolerance. <i>Journal of Clinical Investigation</i> , 2004 , 113, 482-9	15.9	100
199	Health Benefits of Fasting and Caloric Restriction. <i>Current Diabetes Reports</i> , 2017 , 17, 123	5.6	99

198	Glutathione peroxidase-1 deficiency potentiates dysregulatory modifications of endothelial nitric oxide synthase and vascular dysfunction in aging. <i>Hypertension</i> , 2014 , 63, 390-6	8.5	97
197	Angiotensin II-induced vascular dysfunction depends on interferon- β -driven immune cell recruitment and mutual activation of monocytes and NK-cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 1313-9	9.4	95
196	Hydralazine is a powerful inhibitor of peroxynitrite formation as a possible explanation for its beneficial effects on prognosis in patients with congestive heart failure. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 338, 1865-74	3.4	95
195	The Adverse Effects of Environmental Noise Exposure on Oxidative Stress and Cardiovascular Risk. <i>Antioxidants and Redox Signaling</i> , 2018 , 28, 873-908	8.4	93
194	Reactive Oxygen-Related Diseases: Therapeutic Targets and Emerging Clinical Indications. <i>Antioxidants and Redox Signaling</i> , 2015 , 23, 1171-85	8.4	89
193	Organic Nitrate Therapy, Nitrate Tolerance, and Nitrate-Induced Endothelial Dysfunction: Emphasis on Redox Biology and Oxidative Stress. <i>Antioxidants and Redox Signaling</i> , 2015 , 23, 899-942	8.4	88
192	Crucial role for Nox2 and sleep deprivation in aircraft noise-induced vascular and cerebral oxidative stress, inflammation, and gene regulation. <i>European Heart Journal</i> , 2018 , 39, 3528-3539	9.5	88
191	Ebselen as a peroxynitrite scavenger in vitro and ex vivo. <i>Biochemical Pharmacology</i> , 2000 , 59, 153-60	6	86
190	Suppression of the JNK Pathway by Induction of a Metabolic Stress Response Prevents Vascular Injury and Dysfunction. <i>Circulation</i> , 2008 , 1	16.7	84
189	Redox regulation of cardiovascular inflammation - Immunomodulatory function of mitochondrial and Nox-derived reactive oxygen and nitrogen species. <i>Free Radical Biology and Medicine</i> , 2017 , 109, 48-60	7.8	83
188	Heterozygous deficiency of manganese superoxide dismutase in mice (Mn-SOD $^{+/-}$): a novel approach to assess the role of oxidative stress for the development of nitrate tolerance. <i>Molecular Pharmacology</i> , 2005 , 68, 579-88	4.3	83
187	Inflammatory monocytes determine endothelial nitric-oxide synthase uncoupling and nitro-oxidative stress induced by angiotensin II. <i>Journal of Biological Chemistry</i> , 2014 , 289, 27540-50	5.4	81
186	Peroxynitrite reaction with heme proteins. <i>Nitric Oxide - Biology and Chemistry</i> , 1999 , 3, 142-52	5	81
185	Nitroglycerin-induced endothelial dysfunction and tolerance involve adverse phosphorylation and S-Glutathionylation of endothelial nitric oxide synthase: beneficial effects of therapy with the AT1 receptor blocker telmisartan. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 2223-31	9.4	80
184	Vascular dysfunction in experimental diabetes is improved by pentaerithrityl tetranitrate but not isosorbide-5-mononitrate therapy. <i>Diabetes</i> , 2011 , 60, 2608-16	0.9	76
183	Suppression of the JNK pathway by induction of a metabolic stress response prevents vascular injury and dysfunction. <i>Circulation</i> , 2008 , 118, 1347-57	16.7	76
182	Short-term e-cigarette vapour exposure causes vascular oxidative stress and dysfunction: evidence for a close connection to brain damage and a key role of the phagocytic NADPH oxidase (NOX-2). <i>European Heart Journal</i> , 2020 , 41, 2472-2483	9.5	74
181	Heme oxygenase-1: a novel key player in the development of tolerance in response to organic nitrates. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 1729-35	9.4	73

180	More answers to the still unresolved question of nitrate tolerance. <i>European Heart Journal</i> , 2013 , 34, 2666-73	9.5	72
179	Effects of tobacco cigarettes, e-cigarettes, and waterpipe smoking on endothelial function and clinical outcomes. <i>European Heart Journal</i> , 2020 , 41, 4057-4070	9.5	71
178	Gp91phox-containing NAD(P)H oxidase increases superoxide formation by doxorubicin and NADPH. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 466-73	7.8	71
177	Resveratrol and Vascular Function. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	69
176	Chronic therapy with isosorbide-5-mononitrate causes endothelial dysfunction, oxidative stress, and a marked increase in vascular endothelin-1 expression. <i>European Heart Journal</i> , 2013 , 34, 3206-16	9.5	68
175	Endothelial GLP-1 (Glucagon-Like Peptide-1) Receptor Mediates Cardiovascular Protection by Liraglutide In Mice With Experimental Arterial Hypertension. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020 , 40, 145-158	9.4	68
174	ALDH-2 deficiency increases cardiovascular oxidative stress--evidence for indirect antioxidative properties. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 367, 137-43	3.4	67
173	Gliptin and GLP-1 analog treatment improves survival and vascular inflammation/dysfunction in animals with lipopolysaccharide-induced endotoxemia. <i>Basic Research in Cardiology</i> , 2015 , 110, 6	11.8	62
172	Ambient Air Pollution Increases the Risk of Cerebrovascular and Neuropsychiatric Disorders through Induction of Inflammation and Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	62
171	Heme oxygenase-1 suppresses a pro-inflammatory phenotype in monocytes and determines endothelial function and arterial hypertension in mice and humans. <i>European Heart Journal</i> , 2015 , 36, 3437-46	9.5	62
170	Differential effects of organic nitrates on endothelial progenitor cells are determined by oxidative stress. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 748-54	9.4	62
169	Peripheral artery disease, redox signaling, oxidative stress - Basic and clinical aspects. <i>Redox Biology</i> , 2017 , 12, 787-797	11.3	61
168	AMP-activated protein kinase preserves endothelial function during chronic angiotensin II treatment by limiting Nox2 upregulation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 560-6	9.4	57
167	The oxidative stress concept of nitrate tolerance and the antioxidant properties of hydralazine. <i>American Journal of Cardiology</i> , 2005 , 96, 25i-36i	3	57
166	Pentaerythritol tetranitrate improves angiotensin II-induced vascular dysfunction via induction of heme oxygenase-1. <i>Hypertension</i> , 2010 , 55, 897-904	8.5	55
165	Cardioprotection by H ₂ S Donors: Nitric Oxide-Dependent and -Independent Mechanisms. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016 , 358, 431-40	4.7	54
164	Platelet-localized FXI promotes a vascular coagulation-inflammatory circuit in arterial hypertension. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	53
163	Redox implications in adipose tissue (dys)function--A new look at old acquaintances. <i>Redox Biology</i> , 2015 , 6, 19-32	11.3	52

162	Oxidation and nitrosation in the nitrogen monoxide/superoxide system. <i>Journal of Biological Chemistry</i> , 2002 , 277, 11882-8	5.4	52
161	Glucagon-like peptide-1 receptor signalling reduces microvascular thrombosis, nitro-oxidative stress and platelet activation in endotoxaemic mice. <i>British Journal of Pharmacology</i> , 2017 , 174, 1620-1632	8.6	51
160	Mechanisms of increased vascular superoxide production in an experimental model of idiopathic dilated cardiomyopathy. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 2554-9	9.4	51
159	CD40L contributes to angiotensin II-induced pro-thrombotic state, vascular inflammation, oxidative stress and endothelial dysfunction. <i>Basic Research in Cardiology</i> , 2013 , 108, 386	11.8	50
158	Nitrate tolerance as a model of vascular dysfunction: roles for mitochondrial aldehyde dehydrogenase and mitochondrial oxidative stress. <i>Pharmacological Reports</i> , 2009 , 61, 33-48	3.9	50
157	Oxidative inhibition of the mitochondrial aldehyde dehydrogenase promotes nitroglycerin tolerance in human blood vessels. <i>Journal of the American College of Cardiology</i> , 2007 , 50, 2226-32	15.1	50
156	Cyclooxygenase 2-selective and nonselective nonsteroidal anti-inflammatory drugs induce oxidative stress by up-regulating vascular NADPH oxidases. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 326, 745-53	4.7	49
155	Adverse Cardiovascular Effects of Traffic Noise with a Focus on Nighttime Noise and the New WHO Noise Guidelines. <i>Annual Review of Public Health</i> , 2020 , 41, 309-328	20.6	48
154	Exploiting the Pleiotropic Antioxidant Effects of Established Drugs in Cardiovascular Disease. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 18185-223	6.3	48
153	Increased superoxide production in nitrate tolerance is associated with NAD(P)H oxidase and aldehyde dehydrogenase 2 downregulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 42, 1111-18	5.8	48
152	Betulinic acid protects against cerebral ischemia-reperfusion injury in mice by reducing oxidative and nitrosative stress. <i>Nitric Oxide - Biology and Chemistry</i> , 2011 , 24, 132-8	5	47
151	Revisiting pharmacology of oxidative stress and endothelial dysfunction in cardiovascular disease: Evidence for redox-based therapies. <i>Free Radical Biology and Medicine</i> , 2020 , 157, 15-37	7.8	46
150	New aspects in the reaction mechanism of phenol with peroxynitrite: the role of phenoxy radicals. <i>Nitric Oxide - Biology and Chemistry</i> , 1998 , 2, 259-69	5	46
149	Transportation noise pollution and cardiovascular disease. <i>Nature Reviews Cardiology</i> , 2021 , 18, 619-636	14.8	45
148	Taking up the cudgels for the traditional reactive oxygen and nitrogen species detection assays and their use in the cardiovascular system. <i>Redox Biology</i> , 2017 , 12, 35-49	11.3	42
147	Peroxisome proliferator-activated receptor γ coactivator 1 β deletion induces angiotensin II-associated vascular dysfunction by increasing mitochondrial oxidative stress and vascular inflammation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 1928-35	9.4	42
146	Environmental Noise-Induced Effects on Stress Hormones, Oxidative Stress, and Vascular Dysfunction: Key Factors in the Relationship between Cerebrocardiovascular and Psychological Disorders. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 4623109	6.7	42
145	NADPH oxidase accounts for enhanced superoxide production and impaired endothelium-dependent smooth muscle relaxation in BKbeta1-/- mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006 , 26, 1753-9	9.4	41

144	Inorganic nitrite and nitrate in cardiovascular therapy: A better alternative to organic nitrates as nitric oxide donors?. <i>Vascular Pharmacology</i> , 2018 , 102, 1-10	5.9	41
143	The role of mitochondrial reactive oxygen species, NO and H S in ischaemia/reperfusion injury and cardioprotection. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 6510-6522	5.6	39
142	Critical limb ischaemia is characterised by an increased production of whole blood reactive oxygen species and expression of TREM-1 on neutrophils. <i>Atherosclerosis</i> , 2013 , 229, 396-403	3.1	39
141	Targeting the NO/superoxide ratio in adipose tissue: relevance to obesity and diabetes management. <i>British Journal of Pharmacology</i> , 2017 , 174, 1570-1590	8.6	38
140	Non-hemodynamic effects of organic nitrates and the distinctive characteristics of pentaerythritol tetranitrate. <i>American Journal of Cardiovascular Drugs</i> , 2009 , 9, 7-15	4	38
139	Antagonization of IL-17A Attenuates Skin Inflammation and Vascular Dysfunction in Mouse Models of Psoriasis. <i>Journal of Investigative Dermatology</i> , 2019 , 139, 638-647	4.3	38
138	Environmental noise induces the release of stress hormones and inflammatory signaling molecules leading to oxidative stress and vascular dysfunction-Signatures of the internal exposome. <i>BioFactors</i> , 2019 , 45, 495-506	6.1	37
137	Gliptins Suppress Inflammatory Macrophage Activation to Mitigate Inflammation, Fibrosis, Oxidative Stress, and Vascular Dysfunction in Models of Nonalcoholic Steatohepatitis and Liver Fibrosis. <i>Antioxidants and Redox Signaling</i> , 2018 , 28, 87-109	8.4	37
136	Vascular dysfunction in streptozotocin-induced experimental diabetes strictly depends on insulin deficiency. <i>Journal of Vascular Research</i> , 2011 , 48, 275-84	1.9	36
135	Acute exposure to nocturnal train noise induces endothelial dysfunction and pro-thromboinflammatory changes of the plasma proteome in healthy subjects. <i>Basic Research in Cardiology</i> , 2019 , 114, 46	11.8	35
134	Protein tyrosine nitration and thiol oxidation by peroxynitrite-strategies to prevent these oxidative modifications. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 7542-70	6.3	35
133	NOX2 amplifies acetaldehyde-mediated cardiomyocyte mitochondrial dysfunction in alcoholic cardiomyopathy. <i>Scientific Reports</i> , 2016 , 6, 32554	4.9	34
132	Maternal treatment of spontaneously hypertensive rats with pentaerythritol tetranitrate reduces blood pressure in female offspring. <i>Hypertension</i> , 2015 , 65, 232-7	8.5	33
131	Regulation of human mitochondrial aldehyde dehydrogenase (ALDH-2) activity by electrophiles in vitro. <i>Journal of Biological Chemistry</i> , 2011 , 286, 8893-900	5.4	33
130	Tolerance to nitroglycerin-induced preconditioning of the endothelium: a human in vivo study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H340-5	5.2	32
129	Hyperglycemia and oxidative stress in cultured endothelial cells--a comparison of primary endothelial cells with an immortalized endothelial cell line. <i>Journal of Diabetes and Its Complications</i> , 2012 , 26, 155-62	3.2	31
128	Chemical model systems for cellular nitros(yl)ation reactions. <i>Free Radical Biology and Medicine</i> , 2009 , 47, 458-67	7.8	31
127	Effects of pentaerythritol tetranitrate on endothelial function in coronary artery disease: results of the PENTA study. <i>Clinical Research in Cardiology</i> , 2010 , 99, 115-24	6.1	31

126	Mitochondrial oxidative stress and nitrate tolerance--comparison of nitroglycerin and pentaerithrityl tetranitrate in Mn-SOD+/- mice. <i>BMC Cardiovascular Disorders</i> , 2006 , 6, 44	2.3	31
125	A new pitfall in detecting biological end products of nitric oxide-nitration, nitros(yl)ation and nitrite/nitrate artefacts during freezing. <i>Nitric Oxide - Biology and Chemistry</i> , 2003 , 9, 44-52	5	31
124	Nitration and inactivation of cytochrome P450BM-3 by peroxynitrite. Stopped-flow measurements prove ferryl intermediates. <i>FEBS Journal</i> , 2000 , 267, 6729-39		30
123	Phenotypic characterisation of pro-inflammatory monocytes and dendritic cells in peripheral arterial disease. <i>Thrombosis and Haemostasis</i> , 2012 , 108, 1198-207	7	29
122	Differential effects of heart rate reduction with ivabradine in two models of endothelial dysfunction and oxidative stress. <i>Basic Research in Cardiology</i> , 2011 , 106, 1147-58	11.8	28
121	Loss of Nrf2 in bone marrow-derived macrophages impairs antigen-driven CD8(+) T cell function by limiting GSH and Cys availability. <i>Free Radical Biology and Medicine</i> , 2015 , 83, 77-88	7.8	27
120	Oxidative stress and inflammation contribute to traffic noise-induced vascular and cerebral dysfunction via uncoupling of nitric oxide synthases. <i>Redox Biology</i> , 2020 , 34, 101506	11.3	27
119	CD40L controls obesity-associated vascular inflammation, oxidative stress, and endothelial dysfunction in high fat diet-treated and db/db mice. <i>Cardiovascular Research</i> , 2018 , 114, 312-323	9.9	27
118	Autocatalytic tyrosine nitration of prostaglandin endoperoxide synthase-2 in LPS-stimulated RAW 264.7 macrophages. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 340, 318-25	3.4	27
117	Monitoring white blood cell mitochondrial aldehyde dehydrogenase activity: implications for nitrate therapy in humans. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 330, 63-71	4.7	26
116	Effects of clopidogrel vs. prasugrel vs. ticagrelor on endothelial function, inflammatory parameters, and platelet function in patients with acute coronary syndrome undergoing coronary artery stenting: a randomized, blinded, parallel study. <i>European Heart Journal</i> , 2020 , 41, 3144-3152	9.5	26
115	Organic nitrates and nitrate tolerance--state of the art and future developments. <i>Advances in Pharmacology</i> , 2010 , 60, 177-227	5.7	24
114	Effects of nitroglycerin or pentaerithrityl tetranitrate treatment on the gene expression in rat hearts: evidence for cardiotoxic and cardioprotective effects. <i>Physiological Genomics</i> , 2009 , 38, 176-85	3.6	24
113	AMP-activated protein kinase mediates vascular protective effects of exercise. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 1632-41	9.4	23
112	Influence of mental stress and environmental toxins on circadian clocks: Implications for redox regulation of the heart and cardioprotection. <i>British Journal of Pharmacology</i> , 2020 , 177, 5393-5412	8.6	23
111	The anti-cancer drug doxorubicin induces substantial epigenetic changes in cultured cardiomyocytes. <i>Chemico-Biological Interactions</i> , 2019 , 313, 108834	5	22
110	Effects of clopidogrel, prasugrel and ticagrelor on endothelial function, inflammatory and oxidative stress parameters and platelet function in patients undergoing coronary artery stenting for an acute coronary syndrome. A randomised, prospective, controlled study. <i>BMJ Open</i> , 2014 , 4, e005268	3	22
109	Effects of air pollution particles (ultrafine and fine particulate matter) on mitochondrial function and oxidative stress - Implications for cardiovascular and neurodegenerative diseases. <i>Archives of Biochemistry and Biophysics</i> , 2020 , 696, 108662	4.1	22

108	Nitroglycerine limits infarct size through S-nitrosation of cyclophilin D: a novel mechanism for an old drug. <i>Cardiovascular Research</i> , 2019 , 115, 625-636	9.9	22
107	Stimulatory TSH-Receptor Antibodies and Oxidative Stress in Graves Disease. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 3668-3677	5.6	22
106	Time Response of Oxidative/Nitrosative Stress and Inflammation in LPS-Induced Endotoxaemia-A Comparative Study of Mice and Rats. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	21
105	Impairment of the extrusion transporter for asymmetric dimethyl-L-arginine: a novel mechanism underlying vasospastic angina. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 423, 218-23	3.4	21
104	Organic nitrates and nitrate resistance in diabetes: the role of vascular dysfunction and oxidative stress with emphasis on antioxidant properties of pentaerythrityl tetranitrate. <i>Experimental Diabetes Research</i> , 2010 , 2010, 213176		21
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