

Ralf P Brandes

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.

233 papers	18,086 citations	76 h-index	128 g-index
257 ext. papers	19,967 ext. citations	9 avg, IF	6.54 L-index

#	Paper	IF	Citations
233	Apocynin is not an inhibitor of vascular NADPH oxidases but an antioxidant. <i>Hypertension</i> , 2008 , 51, 211-8.	8.5	613
232	A gp91phox containing NADPH oxidase selectively expressed in endothelial cells is a major source of oxygen radical generation in the arterial wall. <i>Circulation Research</i> , 2000 , 87, 26-32	15.7	517
231	Transdifferentiation of blood-derived human adult endothelial progenitor cells into functionally active cardiomyocytes. <i>Circulation</i> , 2003 , 107, 1024-32	16.7	472
230	Nox4 is a protective reactive oxygen species generating vascular NADPH oxidase. <i>Circulation Research</i> , 2012 , 110, 1217-25	15.7	452
229	Endothelial aging. <i>Cardiovascular Research</i> , 2005 , 66, 286-94	9.9	427
228	Nox family NADPH oxidases: Molecular mechanisms of activation. <i>Free Radical Biology and Medicine</i> , 2014 , 76, 208-26	7.8	417
227	Direct interaction of the novel Nox proteins with p22phox is required for the formation of a functionally active NADPH oxidase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 45935-41	5.4	415
226	The E-loop is involved in hydrogen peroxide formation by the NADPH oxidase Nox4. <i>Journal of Biological Chemistry</i> , 2011 , 286, 13304-13	5.4	371
225	Endothelium-derived hyperpolarizing factor synthase (Cytochrome P450 2C9) is a functionally significant source of reactive oxygen species in coronary arteries. <i>Circulation Research</i> , 2001 , 88, 44-51	15.7	371
224	Thrombin activates the hypoxia-inducible factor-1 signaling pathway in vascular smooth muscle cells: Role of the p22(phox)-containing NADPH oxidase. <i>Circulation Research</i> , 2001 , 89, 47-54	15.7	362
223	NADPH oxidase-4 mediates protection against chronic load-induced stress in mouse hearts by enhancing angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18121-6	11.5	347
222	NADPH oxidase plays a central role in blood-brain barrier damage in experimental stroke. <i>Stroke</i> , 2007 , 38, 3000-6	6.7	326
221	Vascular NADPH oxidases: molecular mechanisms of activation. <i>Cardiovascular Research</i> , 2005 , 65, 16-27.	9.9	299
220	Acetylation-dependent regulation of endothelial Notch signalling by the SIRT1 deacetylase. <i>Nature</i> , 2011 , 473, 234-8	50.4	298
219	Antioxidative stress-associated genes in circulating progenitor cells: evidence for enhanced resistance against oxidative stress. <i>Blood</i> , 2004 , 104, 3591-7	2.2	286
218	AT1 receptor agonistic antibodies from preeclamptic patients stimulate NADPH oxidase. <i>Circulation</i> , 2003 , 107, 1632-9	16.7	271
217	MicroRNA-29 in aortic dilation: implications for aneurysm formation. <i>Circulation Research</i> , 2011 , 109, 1115-9	15.7	262

216	Cell-to-cell connection of endothelial progenitor cells with cardiac myocytes by nanotubes: a novel mechanism for cell fate changes?. <i>Circulation Research</i> , 2005 , 96, 1039-41	15.7	246
215	An endothelium-derived hyperpolarizing factor distinct from NO and prostacyclin is a major endothelium-dependent vasodilator in resistance vessels of wild-type and endothelial NO synthase knockout mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 9747-52	11.5	230
214	gp91phox-containing NADPH oxidase mediates endothelial dysfunction in renovascular hypertension. <i>Circulation</i> , 2004 , 109, 1795-801	16.7	226
213	NADPH oxidases in cardiovascular disease. <i>Free Radical Biology and Medicine</i> , 2010 , 49, 687-706	7.8	207
212	Extracellular superoxide dismutase is a major determinant of nitric oxide bioavailability: in vivo and ex vivo evidence from ecSOD-deficient mice. <i>Circulation Research</i> , 2003 , 93, 622-9	15.7	203
211	Nox4 acts as a switch between differentiation and proliferation in preadipocytes. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 239-45	9.4	196
210	Hydrogen peroxide triggers nuclear export of telomerase reverse transcriptase via Src kinase family-dependent phosphorylation of tyrosine 707. <i>Molecular and Cellular Biology</i> , 2003 , 23, 4598-610	4.8	188
209	p47phox-dependent NADPH oxidase regulates flow-induced vascular remodeling. <i>Circulation Research</i> , 2005 , 97, 533-40	15.7	188
208	Ex vivo pretreatment of bone marrow mononuclear cells with endothelial NO synthase enhancer AVE9488 enhances their functional activity for cell therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 14537-41	11.5	187
207	Liver fibrosis and hepatocyte apoptosis are attenuated by GKT137831, a novel NOX4/NOX1 inhibitor in vivo. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 289-96	7.8	177
206	Dietary L-arginine reduces the progression of atherosclerosis in cholesterol-fed rabbits: comparison with lovastatin. <i>Circulation</i> , 1997 , 96, 1282-90	16.7	165
205	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
204	Regulation of NAD(P)H oxidase by associated protein disulfide isomerase in vascular smooth muscle cells. <i>Journal of Biological Chemistry</i> , 2005 , 280, 40813-9	5.4	156
203	Anatomic heterogeneity of vascular aging: role of nitric oxide and endothelin. <i>Hypertension</i> , 1997 , 30, 817-24	8.5	156
202	Soluble epoxide hydrolase is a main effector of angiotensin II-induced hypertension. <i>Hypertension</i> , 2005 , 45, 759-65	8.5	155
201	Withdrawal of 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors elicits oxidative stress and induces endothelial dysfunction in mice. <i>Circulation Research</i> , 2002 , 91, 173-9	15.7	151
200	Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function. <i>Circulation</i> , 2017 , 136, 65-79	16.7	145
199	CD40 ligand+ microparticles from human atherosclerotic plaques stimulate endothelial proliferation and angiogenesis a potential mechanism for intraplaque neovascularization. <i>Journal of the American College of Cardiology</i> , 2008 , 52, 1302-11	15.1	145

198	Endothelial dysfunction and hypertension. <i>Hypertension</i> , 2014 , 64, 924-8	8.5	141
197	NADPH oxidase-derived overproduction of reactive oxygen species impairs postischemic neovascularization in mice with type 1 diabetes. <i>American Journal of Pathology</i> , 2006 , 169, 719-28	5.8	141
196	Activation of TRPC6 channels is essential for lung ischaemia-reperfusion induced oedema in mice. <i>Nature Communications</i> , 2012 , 3, 649	17.4	137
195	Increased nitrovasodilator sensitivity in endothelial nitric oxide synthase knockout mice: role of soluble guanylyl cyclase. <i>Hypertension</i> , 2000 , 35, 231-6	8.5	123
194	Nox1 mediates basic fibroblast growth factor-induced migration of vascular smooth muscle cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 1736-43	9.4	121
193	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
192	Vascular release of superoxide radicals is enhanced in hypercholesterolemic rabbits. <i>Journal of Cardiovascular Pharmacology</i> , 1994 , 24, 994-8	3.1	120
191	Role of podocytes for reversal of glomerulosclerosis and proteinuria in the aging kidney after endothelin inhibition. <i>Hypertension</i> , 2004 , 44, 974-81	8.5	119
190	Role of Nox4 in murine models of kidney disease. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 842-53	7.8	118
189	The NADPH oxidase Nox4 has anti-atherosclerotic functions. <i>European Heart Journal</i> , 2015 , 36, 3447-56	9.5	112
188	Identification of structural elements in Nox1 and Nox4 controlling localization and activity. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1279-87	8.4	112
187	Role of reactive oxygen species and gp91phox in endothelial dysfunction of pulmonary arteries induced by chronic hypoxia. <i>British Journal of Pharmacology</i> , 2006 , 148, 714-23	8.6	112
186	Analysis of dichlorodihydrofluorescein and dihydrocalcein as probes for the detection of intracellular reactive oxygen species. <i>Free Radical Research</i> , 2004 , 38, 1257-67	4	111
185	Role of increased production of superoxide anions by NAD(P)H oxidase and xanthine oxidase in prolonged endotoxemia. <i>Hypertension</i> , 1999 , 33, 1243-9	8.5	110
184	Non-canonical Wnt signaling enhances differentiation of human circulating progenitor cells to cardiomyogenic cells. <i>Journal of Biological Chemistry</i> , 2005 , 280, 16838-42	5.4	109
183	The Nox family of NADPH oxidases: friend or foe of the vascular system?. <i>Current Hypertension Reports</i> , 2012 , 14, 70-8	4.7	108
182	NADPH oxidase 4 limits bone mass by promoting osteoclastogenesis. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4731-8	15.9	108
181	Angiotensin-converting enzyme is involved in outside-in signaling in endothelial cells. <i>Circulation Research</i> , 2004 , 94, 60-7	15.7	108

180	NADPH oxidases as therapeutic targets in ischemic stroke. <i>Cellular and Molecular Life Sciences</i> , 2012 , 69, 2345-63	10.3	106
179	Roles of reactive oxygen species in angiotensin-1/tie-2 receptor signaling. <i>FASEB Journal</i> , 2005 , 19, 1728-30	9.0	99
178	Hepatocyte Nicotinamide Adenine Dinucleotide Phosphate Reduced Oxidase 4 Regulates Stress Signaling, Fibrosis, and Insulin Sensitivity During Development of Steatohepatitis in Mice. <i>Gastroenterology</i> , 2015 , 149, 468-80.e10	13.3	98
177	Peroxisome proliferator-activated receptor alpha induces NADPH oxidase activity in macrophages, leading to the generation of LDL with PPAR-alpha activation properties. <i>Circulation Research</i> , 2004 , 95, 1174-82	15.7	96
176	NADPH oxidase mediates tissue factor-dependent surface procoagulant activity by thrombin in human vascular smooth muscle cells. <i>Circulation</i> , 2002 , 105, 2030-6	16.7	96
175	Oxidant stress in hyperlipidemia-induced renal damage. <i>American Journal of Physiology - Renal Physiology</i> , 2000 , 278, F63-74	4.3	96
174	Dietary L-arginine and alpha-tocopherol reduce vascular oxidative stress and preserve endothelial function in hypercholesterolemic rabbits via different mechanisms. <i>Atherosclerosis</i> , 1998 , 141, 31-43	3.1	96
173	Which NADPH oxidase isoform is relevant for ischemic stroke? The case for nox 2. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 1400-17	8.4	94
172	Dynamic modulation of interendothelial gap junctional communication by 11,12-epoxyeicosatrienoic acid. <i>Circulation Research</i> , 2002 , 90, 800-6	15.7	94
171	Role of Src tyrosine kinases in experimental pulmonary hypertension. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 1354-65	9.4	90
170	Oxidized low-density lipoprotein increases superoxide production by endothelial nitric oxide synthase by inhibiting PKCalpha. <i>Cardiovascular Research</i> , 2005 , 65, 897-906	9.9	90
169	NADPH oxidase Nox2 is required for hypoxia-induced mobilization of endothelial progenitor cells. <i>Circulation Research</i> , 2009 , 105, 537-44	15.7	89
168	TGF- β Directs trafficking of the epithelial sodium channel ENaC which has implications for ion and fluid transport in acute lung injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E374-83	11.5	87
167	Vascular CXCR4 Limits Atherosclerosis by Maintaining Arterial Integrity: Evidence From Mouse and Human Studies. <i>Circulation</i> , 2017 , 136, 388-403	16.7	83
166	The vascular NADPH oxidase subunit p47phox is involved in redox-mediated gene expression. <i>Free Radical Biology and Medicine</i> , 2002 , 32, 1116-22	7.8	83
165	Vitamin D promotes vascular regeneration. <i>Circulation</i> , 2014 , 130, 976-86	16.7	82
164	The terminal complement complex C5b-9 stimulates interleukin-6 production in human smooth muscle cells through activation of transcription factors NF-kappa B and AP-1. <i>FASEB Journal</i> , 2000 , 14, 2370-2	0.9	82
163	Nox activator 1: a potential target for modulation of vascular reactive oxygen species in atherosclerotic arteries. <i>Circulation</i> , 2010 , 121, 549-59	16.7	81

162	Oxidative stress and expression of p22phox are involved in the up-regulation of tissue factor in vascular smooth muscle cells in response to activated platelets. <i>FASEB Journal</i> , 2000 , 14, 1518-1528	0.9	81
161	Glucocorticoids inhibit superoxide anion production and p22 phox mRNA expression in human aortic smooth muscle cells. <i>Hypertension</i> , 1998 , 32, 1083-8	8.5	80
160	NADPH oxidase-4 maintains neuropathic pain after peripheral nerve injury. <i>Journal of Neuroscience</i> , 2012 , 32, 10136-45	6.6	77
159	NADPH oxidase Nox1 contributes to ischemic injury in experimental stroke in mice. <i>Neurobiology of Disease</i> , 2010 , 40, 185-92	7.5	76
158	Platelet-derived growth factor activates production of reactive oxygen species by NAD(P)H oxidase in smooth muscle cells through Gi1,2. <i>FASEB Journal</i> , 2003 , 17, 38-40	0.9	73
157	Noxa1 is a central component of the smooth muscle NADPH oxidase in mice. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 193-201	7.8	72
156	Targeted redox inhibition of protein phosphatase 1 by Nox4 regulates eIF2 γ -mediated stress signaling. <i>EMBO Journal</i> , 2016 , 35, 319-34	13	72
155	Aged spontaneously hypertensive rats exhibit a selective loss of EDHF-mediated relaxation in the renal artery. <i>Hypertension</i> , 2003 , 42, 562-8	8.5	71
154	Redox-mediated signal transduction by cardiovascular Nox NADPH oxidases. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 73, 70-9	5.8	70
153	Differential vascular functions of Nox family NADPH oxidases. <i>Current Opinion in Lipidology</i> , 2008 , 19, 513-8	4.4	68
152	Targeting inflammation and oxidative stress in atrial fibrillation: role of 3-hydroxy-3-methylglutaryl-coenzyme a reductase inhibition with statins. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 1268-85	8.4	67
151	Xanthine oxidase inhibitor tungsten prevents the development of atherosclerosis in ApoE knockout mice fed a Western-type diet. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 1353-60	7.8	67
150	Monoamine oxidases are mediators of endothelial dysfunction in the mouse aorta. <i>Hypertension</i> , 2013 , 62, 140-6	8.5	63
149	Gender differences in the generation of superoxide anions in the rat aorta. <i>Life Sciences</i> , 1997 , 60, 391-66.8		62
148	N(G)-nitro-L-arginine- and indomethacin-resistant endothelium-dependent relaxation in the rabbit renal artery: effect of hypercholesterolemia. <i>Atherosclerosis</i> , 1997 , 135, 49-55	3.1	61
147	Hypoxia induces Kv channel current inhibition by increased NADPH oxidase-derived reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 1033-42	7.8	60
146	Activation of Rac-1 and RhoA contributes to podocyte injury in chronic kidney disease. <i>PLoS ONE</i> , 2013 , 8, e80328	3.7	60
145	Cystathionine γ -lyase Sulfhydrates the RNA Binding Protein Human Antigen R to Preserve Endothelial Cell Function and Delay Atherogenesis. <i>Circulation</i> , 2019 , 139, 101-114	16.7	59

144	Stimulation of soluble guanylate cyclase prevents cigarette smoke-induced pulmonary hypertension and emphysema. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 189, 1359-73	10.2	59
143	Native LDL induces proliferation of human vascular smooth muscle cells via redox-mediated activation of ERK 1/2 mitogen-activated protein kinases. <i>Hypertension</i> , 2002 , 39, 645-50	8.5	59
142	Mitochondrial Complex IV Subunit 4 Isoform 2 Is Essential for Acute Pulmonary Oxygen Sensing. <i>Circulation Research</i> , 2017 , 121, 424-438	15.7	58
141	Function of NADPH oxidase 1 in pulmonary arterial smooth muscle cells after monocrotaline-induced pulmonary vascular remodeling. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 2213-31	8.4	57
140	Regulation of proliferation of skeletal muscle precursor cells by NADPH oxidase. <i>Antioxidants and Redox Signaling</i> , 2008 , 10, 559-74	8.4	55
139	Nitric oxide down-regulates the expression of the catalytic NADPH oxidase subunit Nox1 in rat renal mesangial cells. <i>FASEB Journal</i> , 2006 , 20, 139-41	0.9	54
138	Biglycan evokes autophagy in macrophages via a novel CD44/Toll-like receptor 4 signaling axis in ischemia/reperfusion injury. <i>Kidney International</i> , 2019 , 95, 540-562	9.9	52
137	Composition and functions of vascular nicotinamide adenine dinucleotide phosphate oxidases. <i>Trends in Cardiovascular Medicine</i> , 2008 , 18, 15-9	6.9	52
136	Role of NADPH oxidases in the control of vascular gene expression. <i>Antioxidants and Redox Signaling</i> , 2003 , 5, 803-11	8.4	52
135	Nox family NADPH oxidases in mechano-transduction: mechanisms and consequences. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 887-98	8.4	51
134	Soluble epoxide hydrolase deficiency attenuates neointima formation in the femoral cuff model of hyperlipidemic mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 909-14	9.4	51
133	Inhibition of the soluble epoxide hydrolase attenuates monocrotaline-induced pulmonary hypertension in rats. <i>Journal of Hypertension</i> , 2009 , 27, 322-31	1.9	50
132	Nicotinamide adenine dinucleotide phosphate oxidase-4-dependent upregulation of nuclear factor erythroid-derived 2-like 2 protects the heart during chronic pressure overload. <i>Hypertension</i> , 2015 , 65, 547-53	8.5	49
131	Conditional transgenic expression of fibroblast growth factor 9 in the adult mouse heart reduces heart failure mortality after myocardial infarction. <i>Circulation</i> , 2011 , 123, 504-14	16.7	48
130	Inhibition of the soluble epoxide hydrolase promotes albuminuria in mice with progressive renal disease. <i>PLoS ONE</i> , 2010 , 5, e11979	3.7	48
129	Levosimendan attenuates pulmonary vascular remodeling. <i>Intensive Care Medicine</i> , 2011 , 37, 1368-77	14.5	45
128	Left ventricular remodeling after myocardial infarction in mice with targeted deletion of the NADPH oxidase subunit gp91PHOX. <i>Basic Research in Cardiology</i> , 2006 , 101, 127-32	11.8	45
127	Leptin potentiates endothelium-dependent relaxation by inducing endothelial expression of neuronal NO synthase. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 1605-12	9.4	44

126	Inactivation of extracellular superoxide dismutase contributes to the development of high-volume hypertension. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 470-7	9.4	43
125	The Endoplasmic Reticulum Chaperone Calnexin Is a NADPH Oxidase NOX4 Interacting Protein. <i>Journal of Biological Chemistry</i> , 2016 , 291, 7045-59	5.4	42
124	Pleiotropic effects of laminar flow and statins depend on the Kr��pel-like factor-induced lncRNA MANTIS. <i>European Heart Journal</i> , 2019 , 40, 2523-2533	9.5	41
123	Hypoxia-dependent reactive oxygen species signaling in the pulmonary circulation: focus on ion channels. <i>Antioxidants and Redox Signaling</i> , 2015 , 22, 537-52	8.4	41
122	Nox2-dependent signaling between macrophages and sensory neurons contributes to neuropathic pain hypersensitivity. <i>Pain</i> , 2014 , 155, 2161-70	8	41
121	The polarity protein Scrib is essential for directed endothelial cell migration. <i>Circulation Research</i> , 2013 , 112, 924-34	15.7	41
120	Organizers and activators: Cytosolic Nox proteins impacting on vascular function. <i>Free Radical Biology and Medicine</i> , 2017 , 109, 22-32	7.8	41
119	Soluble epoxide hydrolase limits mechanical hyperalgesia during inflammation. <i>Molecular Pain</i> , 2011 , 7, 78	3.4	40
118	Withdrawal of cerivastatin induces monocyte chemoattractant protein 1 and tissue factor expression in cultured vascular smooth muscle cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003 , 23, 1794-800	9.4	40
117	Unchanged NADPH Oxidase Activity in Nox1-Nox2-Nox4 Triple Knockout Mice: What Do NADPH-Stimulated Chemiluminescence Assays Really Detect?. <i>Antioxidants and Redox Signaling</i> , 2016 , 24, 392-9	8.4	39
116	Bimodal role of NADPH oxidases in the regulation of biglycan-triggered IL-1�� synthesis. <i>Matrix Biology</i> , 2016 , 49, 61-81	11.4	38
115	Molecular mechanisms of hypoxia-inducible factor-induced pulmonary arterial smooth muscle cell alterations in pulmonary hypertension. <i>Journal of Physiology</i> , 2016 , 594, 1167-77	3.9	37
114	Deficient angiogenesis in redox-dead Cys17Ser PKARI�� knock-in mice. <i>Nature Communications</i> , 2015 , 6, 7920	17.4	36
113	Both cardiomyocyte and endothelial cell Nox4 mediate protection against hemodynamic overload-induced remodelling. <i>Cardiovascular Research</i> , 2018 , 114, 401-408	9.9	36
112	Estradiol regulates human QT-interval: acceleration of cardiac repolarization by enhanced KCNH2 membrane trafficking. <i>European Heart Journal</i> , 2016 , 37, 640-50	9.5	35
111	Hepatocyte growth factor induces a proangiogenic phenotype and mobilizes endothelial progenitor cells by activating Nox2. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 915-23	8.4	35
110	Antioxidant-oxidant balance in the glomerulus and proximal tubule of the rat kidney. <i>Journal of Physiology</i> , 1998 , 509 (Pt 2), 599-606	3.9	35
109	Evidence against a role for NADPH oxidase modulating hepatic vascular tone in cirrhosis. <i>Gastroenterology</i> , 2007 , 133, 959-66	13.3	35

108	Detection of Hydrogen Peroxide with Fluorescent Dyes. <i>Antioxidants and Redox Signaling</i> , 2018 , 29, 585-602	8.2	34
107	Anti-atherosclerotic mechanisms of statin therapy. <i>Current Opinion in Pharmacology</i> , 2013 , 13, 260-4	5.1	33
106	Critical role for p47phox in renin-angiotensin system activation and blood pressure regulation. <i>Cardiovascular Research</i> , 2006 , 71, 596-605	9.9	32
105	Hyperthyroidism enhances endothelium-dependent relaxation in the rat renal artery. <i>Cardiovascular Research</i> , 2003 , 59, 181-8	9.9	32
104	NOX4-dependent Hydrogen peroxide promotes shear stress-induced SHP2 sulfenylation and eNOS activation. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 419-30	7.8	31
103	Cytochrome P450 enzymes but not NADPH oxidases are the source of the NADPH-dependent lucigenin chemiluminescence in membrane assays. <i>Free Radical Biology and Medicine</i> , 2017 , 102, 57-66	7.8	31
102	Trafficking-deficient long QT syndrome mutation KCNQ1-T587M confers severe clinical phenotype by impairment of KCNH2 membrane localization: evidence for clinically significant IKr-IKs alpha-subunit interaction. <i>Heart Rhythm</i> , 2009 , 6, 1792-801	6.7	31
101	Impact of the mitochondria-targeted antioxidant MitoQ on hypoxia-induced pulmonary hypertension. <i>European Respiratory Journal</i> , 2018 ,	13.6	30
100	Laminar shear stress regulates mitochondrial dynamics, bioenergetics responses and PRX3 activation in endothelial cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014 , 1843, 2403-13	4.9	30
99	Rho kinase contributes to basal vascular tone in humans: role of endothelium-derived nitric oxide. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H541-7	5.2	29
98	Direct detection of reactive oxygen species ex vivo. <i>Kidney International</i> , 2005 , 67, 1662-4	9.9	29
97	Aging-regulated anti-apoptotic long non-coding RNA Sarrah augments recovery from acute myocardial infarction. <i>Nature Communications</i> , 2020 , 11, 2039	17.4	28
96	The NADPH organizers NoxO1 and p47phox are both mediators of diabetes-induced vascular dysfunction in mice. <i>Redox Biology</i> , 2018 , 15, 12-21	11.3	28
95	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
94	Biglycan- and Sphingosine Kinase-1 Signaling Crosstalk Regulates the Synthesis of Macrophage Chemoattractants. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	27
93	Long noncoding RNA LISPR1 is required for S1P signaling and endothelial cell function. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 116, 57-68	5.8	26
92	Oxidized phospholipids regulate amino acid metabolism through MTHFD2 to facilitate nucleotide release in endothelial cells. <i>Nature Communications</i> , 2018 , 9, 2292	17.4	26
91	Glucose-Stimulated Insulin Secretion Fundamentally Requires HO Signaling by NADPH Oxidase 4. <i>Diabetes</i> , 2020 , 69, 1341-1354	0.9	25

90	Redox Regulation and Noncoding RNAs. <i>Antioxidants and Redox Signaling</i> , 2018 , 29, 793-812	8.4	25
89	Role of p22phox in angiotensin II and platelet-derived growth factor AA induced activator protein 1 activation in vascular smooth muscle cells. <i>Journal of Molecular Medicine</i> , 2004 , 82, 31-8	5.5	25
88	IL-6 augments IL-4-induced polarization of primary human macrophages through synergy of STAT3, STAT6 and BATF transcription factors. <i>Oncot Immunology</i> , 2018 , 7, e1494110	7.2	24
87	Epigenetic Regulation of Angiogenesis by JARID1B-Induced Repression of HOXA5. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 1645-52	9.4	24
86	SYNCRIP-dependent Nox2 mRNA destabilization impairs ROS formation in M2-polarized macrophages. <i>Antioxidants and Redox Signaling</i> , 2014 , 21, 2483-97	8.4	24
85	Inhibition of the soluble epoxide hydrolase by tyrosine nitration. <i>Journal of Biological Chemistry</i> , 2009 , 284, 28156-28163	5.4	24
84	CRISPR/Cas9-mediated knockout of p22phox leads to loss of Nox1 and Nox4, but not Nox5 activity. <i>Redox Biology</i> , 2016 , 9, 287-295	11.3	23
83	A pirinixic acid derivative (LP105) inhibits murine 5-lipoxygenase activity and attenuates vascular remodelling in a murine model of aortic aneurysm. <i>British Journal of Pharmacology</i> , 2011 , 163, 1721-32	8.6	22
82	Differential effect of p47phox and gp91phox deficiency on the course of Pneumococcal Meningitis. <i>Infection and Immunity</i> , 2003 , 71, 4087-92	3.7	22
81	Vascular functions of NADPH oxidases. <i>Hypertension</i> , 2010 , 56, 17-21	8.5	21
80	NADPH oxidase 4 regulates homocysteine metabolism and protects against acetaminophen-induced liver damage in mice. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 918-30	7.8	20
79	Phenotypic characterization of miR-92a ^{-/-} mice reveals an important function of miR-92a in skeletal development. <i>PLoS ONE</i> , 2014 , 9, e101153	3.7	20
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