Ralf P Brandes

List of Publications by Year
in descending order

252 papers	21,680 citations	7251 80 h-index	11946 139 g-index
257 all docs	257 docs citations	257 times ranked	25444 citing authors

#	Article	IF	Citations
1	Apocynin Is Not an Inhibitor of Vascular NADPH Oxidases but an Antioxidant. Hypertension, 2008, 51, 211-217.	1.3	677
2	A gp91phox Containing NADPH Oxidase Selectively Expressed in Endothelial Cells Is a Major Source of Oxygen Radical Generation in the Arterial Wall. Circulation Research, 2000, 87, 26-32.	2.0	562
3	Nox family NADPH oxidases: Molecular mechanisms of activation. Free Radical Biology and Medicine, 2014, 76, 208-226.	1.3	546
4	Nox4 Is a Protective Reactive Oxygen Species Generating Vascular NADPH Oxidase. Circulation Research, 2012, 110, 1217-1225.	2.0	540
5	Transdifferentiation of Blood-Derived Human Adult Endothelial Progenitor Cells Into Functionally Active Cardiomyocytes. Circulation, 2003, 107, 1024-1032.	1.6	520
6	Endothelial aging. Cardiovascular Research, 2005, 66, 286-294.	1.8	513
7	Direct Interaction of the Novel Nox Proteins with p22phox Is Required for the Formation of a Functionally Active NADPH Oxidase. Journal of Biological Chemistry, 2004, 279, 45935-45941.	1.6	468
8	The E-loop Is Involved in Hydrogen Peroxide Formation by the NADPH Oxidase Nox4. Journal of Biological Chemistry, 2011, 286, 13304-13313.	1.6	445
9	Endothelium-Derived Hyperpolarizing Factor Synthase (Cytochrome P450 2C9) Is a Functionally Significant Source of Reactive Oxygen Species in Coronary Arteries. Circulation Research, 2001, 88, 44-51.	2.0	405
10	NADPH oxidase-4 mediates protection against chronic load-induced stress in mouse hearts by enhancing angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18121-18126.	3.3	401
11	Thrombin Activates the Hypoxia-Inducible Factor-1 Signaling Pathway in Vascular Smooth Muscle Cells. Circulation Research, 2001, 89, 47-54.	2.0	390
12	NADPH Oxidase Plays a Central Role in Blood-Brain Barrier Damage in Experimental Stroke. Stroke, 2007, 38, 3000-3006.	1.0	359
13	Acetylation-dependent regulation of endothelial Notch signalling by the SIRT1 deacetylase. Nature, 2011, 473, 234-238.	13.7	350
14	Vascular NADPH oxidases: molecular mechanisms of activation. Cardiovascular Research, 2005, 65, 16-27.	1.8	338
15	MicroRNA-29 in Aortic Dilation: Implications for Aneurysm Formation. Circulation Research, 2011, 109, 1115-1119.	2.0	326
16	Antioxidative stressâ€“associated genes in circulating progenitor cells: evidence for enhanced resistance against oxidative stress. Blood, 2004, 104, 3591-3597.	0.6	314
17	AT 1 Receptor Agonistic Antibodies From Preeclamptic Patients Stimulate NADPH Oxidase. Circulation, 2003, 107, 1632-1639.	1.6	305
18	Cell-to-Cell Connection of Endothelial Progenitor Cells With Cardiac Myocytes by Nanotubes. Circulation Research, 2005, 96, 1039-1041.	2.0	286

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19	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. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9747-9752.	3.3	253
20	gp91phox-Containing NADPH Oxidase Mediates Endothelial Dysfunction in Renovascular Hypertension. Circulation, 2004, 109, 1795-1801.	1.6	252
21	NADPH oxidases in cardiovascular disease. Free Radical Biology and Medicine, 2010, 49, 687-706.	1.3	241
22	Hydrogen Peroxide Triggers Nuclear Export of Telomerase Reverse Transcriptase via Src Kinase Family-Dependent Phosphorylation of Tyrosine 707. Molecular and Cellular Biology, 2003, 23, 4598-4610.	1.1	229
23	Nox4 Acts as a Switch Between Differentiation and Proliferation in Preadipocytes. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 239-245.	1.1	228
24	Liver fibrosis and hepatocyte apoptosis are attenuated by GKT137831, a novel NOX4/NOX1 inhibitor in vivo. Free Radical Biology and Medicine, 2012, 53, 289-296.	1.3	220
25	Extracellular Superoxide Dismutase Is a Major Determinant of Nitric Oxide Bioavailability. Circulation Research, 2003, 93, 622-629.	2.0	219
26	Endothelial Dysfunction and Hypertension. Hypertension, 2014, 64, 924-928.	1.3	207
27	p47phox-Dependent NADPH Oxidase Regulates Flow-Induced Vascular Remodeling. Circulation Research, 2005, 97, 533-540.	2.0	203
28	Ex vivo pretreatment of bone marrow mononuclear cells with endothelial NO synthase enhancer AVE9488 enhances their functional activity for cell therapy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14537-14541.	3.3	203
29	Dietary <scp>l</scp> -Arginine Reduces the Progression of Atherosclerosis in Cholesterol-Fed Rabbits. Circulation, 1997, 96, 1282-1290.	1.6	202
30	Regulation of NAD(P)H Oxidase by Associated Protein Disulfide Isomerase in Vascular Smooth Muscle Cells. Journal of Biological Chemistry, 2005, 280, 40813-40819.	1.6	196
31	Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function. Circulation, 2017, 136, 65-79.	1.6	196
32	Nebivolol Inhibits Superoxide Formation by NADPH Oxidase and Endothelial Dysfunction in Angiotensin IIâ€"Treated Rats. Hypertension, 2006, 48, 677-684.	1.3	181
33	Anatomic Heterogeneity of Vascular Aging. Hypertension, 1997, 30, 817-824.	1.3	178
34	CD40 Ligand+ Microparticles From Human Atherosclerotic Plaques Stimulate Endothelial Proliferation and Angiogenesis. Journal of the American College of Cardiology, 2008, 52, 1302-1311.	1.2	176
35	Soluble Epoxide Hydrolase Is a Main Effector of Angiotensin IIâ€"Induced Hypertension. Hypertension, 2005, 45, 759-765.	1.3	168
36	Activation of TRPC6 channels is essential for lung ischaemiaâ€"reperfusion induced oedema in mice. Nature Communications, 2012, 3, 649.	5.8	162

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37	Withdrawal of 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase Inhibitors Elicits Oxidative Stress and Induces Endothelial Dysfunction in Mice. Circulation Research, 2002, 91, 173-179.	2.0	158
38	NADPH Oxidase-Derived Overproduction of Reactive Oxygen Species Impairs Postischemic Neovascularization in Mice with Type 1 Diabetes. American Journal of Pathology, 2006, 169, 719-728.	1.9	154
39	The NADPH oxidase Nox4 has anti-atherosclerotic functions. European Heart Journal, 2015, 36, 3447-3456.	1.0	150
40	NADPH oxidase 4 limits bone mass by promoting osteoclastogenesis. Journal of Clinical Investigation, 2013, 123, 4731-4738.	3.9	142
41	Hepatocyte Nicotinamide Adenine Dinucleotide Phosphate Reduced Oxidase 4 Regulates Stress Signaling, Fibrosis, and Insulin Sensitivity During Development of Steatohepatitis in Mice. Gastroenterology, 2015, 149, 468-480.e10.	0.6	136
42	Role of Podocytes for Reversal of Glomerulosclerosis and Proteinuria in the Aging Kidney After Endothelin Inhibition. Hypertension, 2004, 44, 974-981.	1.3	135
43	First Evidence for a Crosstalk Between Mitochondrial and NADPH Oxidase-Derived Reactive Oxygen Species in Nitroglycerin-Triggered Vascular Dysfunction. Antioxidants and Redox Signaling, 2008, 10, 1435-1448.	2.5	135
44	Nox1 Mediates Basic Fibroblast Growth Factor-Induced Migration of Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 1736-1743.	1.1	134
45	Vascular Release of Superoxide Radicals Is Enhanced in Hypercholesterolemic Rabbits. Journal of Cardiovascular Pharmacology, 1994, 24, 994-998.	0.8	133
46	Analysis of Dichlorodihydrofluorescein and Dihydrocalcein as Probes for the Detection of Intracellular Reactive Oxygen Species. Free Radical Research, 2004, 38, 1257-1267.	1.5	133
47	Role of Nox4 in murine models of kidney disease. Free Radical Biology and Medicine, 2012, 53, 842-853.	1.3	131
48	Increased Nitrovasodilator Sensitivity in Endothelial Nitric Oxide Synthase Knockout Mice. Hypertension, 2000, 35, 231-236.	1.3	130
49	Identification of Structural Elements in Nox1 and Nox4 Controlling Localization and Activity. Antioxidants and Redox Signaling, 2009, 11, 1279-1287.	2.5	129
50	TGF-Î² directs trafficking of the epithelial sodium channel ENaC which has implications for ion and fluid transport in acute lung injury. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E374-83.	3.3	129
51	Vascular CXCR4 Limits Atherosclerosis by Maintaining Arterial Integrity. Circulation, 2017, 136, 388-403.	1.6	128
52	Role of reactive oxygen species and gp91phox in endothelial dysfunction of pulmonary arteries induced by chronic hypoxia. British Journal of Pharmacology, 2006, 148, 714-723.	2.7	126
53	NADPH oxidases as therapeutic targets in ischemic stroke. Cellular and Molecular Life Sciences, 2012, 69, 2345-2363.	2.4	125
54	Oxidant stress in hyperlipidemia-induced renal damage. American Journal of Physiology - Renal Physiology, 2000, 278, F63-F74.	1.3	122

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55	Non-canonical Wnt Signaling Enhances Differentiation of Human Circulating Progenitor Cells to Cardiomyogenic Cells. Journal of Biological Chemistry, 2005, 280, 16838-16842.	1.6	122
56	The Nox Family of NADPH Oxidases: Friend or Foe of the Vascular System?. Current Hypertension Reports, 2012, 14, 70-78.	1.5	122
57	Angiotensin-Converting Enzyme Is Involved in Outside-In Signaling in Endothelial Cells. Circulation Research, 2004, 94, 60-67.	2.0	121
58	Roles of reactive oxygen species in angiopoietinâ€1/tieâ€2 receptor signaling. FASEB Journal, 2005, 19, 1728-1730.	0.2	115
59	Role of Increased Production of Superoxide Anions by NAD(P)H Oxidase and Xanthine Oxidase in Prolonged Endotoxemia. Hypertension, 1999, 33, 1243-1249.	1.3	113
60	Which NADPH Oxidase Isoform Is Relevant for Ischemic Stroke? The Case for Nox 2. Antioxidants and Redox Signaling, 2013, 18, 1400-1417.	2.5	110
61	Peroxisome Proliferatorâ€"Activated Receptor Î± Induces NADPH Oxidase Activity in Macrophages, Leading to the Generation of LDL with PPAR-Î± Activation Properties. Circulation Research, 2004, 95, 1174-1182.	2.0	108
62	Role of Src Tyrosine Kinases in Experimental Pulmonary Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1354-1365.	1.1	108
63	NADPH Oxidase Mediates Tissue Factorâ€"Dependent Surface Procoagulant Activity by Thrombin in Human Vascular Smooth Muscle Cells. Circulation, 2002, 105, 2030-2036.	1.6	107
64	Dietary l-arginine and Î±-tocopherol reduce vascular oxidative stress and preserve endothelial function in hypercholesterolemic rabbits via different mechanisms. Atherosclerosis, 1998, 141, 31-43.	0.4	106
65	Oxidized low-density lipoprotein increases superoxide production by endothelial nitric oxide synthase by inhibiting PKC?. Cardiovascular Research, 2005, 65, 897-906.	1.8	105
66	NADPH Oxidase Nox2 Is Required for Hypoxia-Induced Mobilization of Endothelial Progenitor Cells. Circulation Research, 2009, 105, 537-544.	2.0	105
67	Cystathionine Î³ Lyase Sulfhydrates the RNA Binding Protein Human Antigen R to Preserve Endothelial Cell Function and Delay Atherogenesis. Circulation, 2019, 139, 101-114.	1.6	103
68	Dynamic Modulation of Interendothelial Gap Junctional Communication by 11,12-Epoxyeicosatrienoic Acid. Circulation Research, 2002, 90, 800-806.	2.0	101
69	Nox Activator 1. Circulation, 2010, 121, 549-559.	1.6	99
70	NADPH Oxidase-4 Maintains Neuropathic Pain after Peripheral Nerve Injury. Journal of Neuroscience, 2012, 32, 10136-10145.	1.7	94
71	Oxidative stress and expression of p22phox are involved in the upâ€regulation of tissue factor in vascular smooth muscle cells in response to activated platelets. FASEB Journal, 2000, 14, 1518-1528.	0.2	92
72	Vitamin D Promotes Vascular Regeneration. Circulation, 2014, 130, 976-986.	1.6	91

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73	Targeted redox inhibition of protein phosphatase 1 by Nox4 regulates <scp>eIF</scp>2Î±â€mediated stress signaling. EMBO Journal, 2016, 35, 319-334.	3.5	91
74	The terminal complement complex C5bâ€9 stimulates interleukinâ€6 production in human smoothâ€muscle cells through activation of transcription factors NFâ€ÎºB and APâ€1. FASEB Journal, 2000, 14, 2370-2372.	0.2	90
75	The vascular NADPH oxidase subunit p47phox is involved in redox-mediated gene expression. Free Radical Biology and Medicine, 2002, 32, 1116-1122.	1.3	90
76	Mitochondrial Complex IV Subunit 4 Isoform 2 Is Essential for Acute Pulmonary Oxygen Sensing. Circulation Research, 2017, 121, 424-438.	2.0	90
77	Glucocorticoids Inhibit Superoxide Anion Production and p22 Phox mRNA Expression in Human Aortic Smooth Muscle Cells. Hypertension, 1998, 32, 1083-1088.	1.3	89
78	Targeting Inflammation and Oxidative Stress in Atrial Fibrillation: Role of 3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase Inhibition with Statins. Antioxidants and Redox Signaling, 2014, 20, 1268-1285.	2.5	85
79	NADPH oxidase Nox1 contributes to ischemic injury in experimental stroke in mice. Neurobiology of Disease, 2010, 40, 185-192.	2.1	84
80	Triggering Mitochondrial Radical Release. Hypertension, 2005, 45, 847-848.	1.3	82
81	Redox-mediated signal transduction by cardiovascular Nox NADPH oxidases. Journal of Molecular and Cellular Cardiology, 2014, 73, 70-79.	0.9	81
82	Noxa1 is a central component of the smooth muscle NADPH oxidase in mice. Free Radical Biology and Medicine, 2006, 41, 193-201.	1.3	80
83	Stimulation of Soluble Guanylate Cyclase Prevents Cigarette Smokeâ€"induced Pulmonary Hypertension and Emphysema. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 1359-1373.	2.5	80
84	Gender differences in the generation of superoxide anions in the rat aorta. Life Sciences, 1997, 60, 391-396.	2.0	78
85	Plateletâ€derived growth factor activates production of reactive oxygen species by NAD(P)Hâ€oxidase in smooth muscle cells through Gi1,2. FASEB Journal, 2003, 17, 38-40.	0.2	78
86	Monoamine Oxidases Are Mediators of Endothelial Dysfunction in the Mouse Aorta. Hypertension, 2013, 62, 140-146.	1.3	78
87	Biglycan evokes autophagy in macrophages via aÂnovel CD44/Toll-like receptor 4 signaling axisÂinÂischemia/reperfusion injury. Kidney International, 2019, 95, 540-562.	2.6	78
88	Aged Spontaneously Hypertensive Rats Exhibit a Selective Loss of EDHF-Mediated Relaxation in the Renal Artery. Hypertension, 2003, 42, 562-568.	1.3	76
89	Xanthine oxidase inhibitor tungsten prevents the development of atherosclerosis in ApoE knockout mice fed a Western-type diet. Free Radical Biology and Medicine, 2006, 41, 1353-1360.	1.3	76
90	Differential vascular functions of Nox family NADPH oxidases. Current Opinion in Lipidology, 2008, 19, 513-518.	1.2	75

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91	Activation of Rac-1 and RhoA Contributes to Podocyte Injury in Chronic Kidney Disease. PLoS ONE, 2013, 8, e80328.	1.1	74
92	NG-nitro-l-arginine- and indomethacin-resistant endothelium-dependent relaxation in the rabbit renal artery: effect of hypercholesterolemia. Atherosclerosis, 1997, 135, 49-55.	0.4	70
93	Mapping the Endothelial Cell <i>S</i> -Sulfhydrome Highlights the Crucial Role of Integrin Sulfhydration in Vascular Function. Circulation, 2021, 143, 935-948.	1.6	70
94	Hypoxia induces Kv channel current inhibition by increased NADPH oxidase-derived reactive oxygen species. Free Radical Biology and Medicine, 2012, 52, 1033-1042.	1.3	68
95	Nox Family NADPH Oxidases in Mechano-Transduction: Mechanisms and Consequences. Antioxidants and Redox Signaling, 2014, 20, 887-898.	2.5	68
96	Regulation of Proliferation of Skeletal Muscle Precursor Cells By NADPH Oxidase. Antioxidants and Redox Signaling, 2008, 10, 559-574.	2.5	64
97	Nicotinamide Adenine Dinucleotide Phosphate Oxidase-4â€"Dependent Upregulation of Nuclear Factor Erythroidâ€"Derived 2-Like 2 Protects the Heart During Chronic Pressure Overload. Hypertension, 2015, 65, 547-553.	1.3	64
98	Impact of the mitochondria-targeted antioxidant MitoQ on hypoxia-induced pulmonary hypertension. European Respiratory Journal, 2018, 51, 1701024.	3.1	64
99	Role of NADPH Oxidases in the Control of Vascular Gene Expression. Antioxidants and Redox Signaling, 2003, 5, 803-811.	2.5	63
100	Aging-regulated anti-apoptotic long non-coding RNA Sarrah augments recovery from acute myocardial infarction. Nature Communications, 2020, 11, 2039.	5.8	63
101	Native LDL Induces Proliferation of Human Vascular Smooth Muscle Cells via Redox-Mediated Activation of ERK 1/2 Mitogen-Activated Protein Kinases. Hypertension, 2002, 39, 645-650.	1.3	62
102	Function of NADPH Oxidase 1 in Pulmonary Arterial Smooth Muscle Cells After Monocrotaline-Induced Pulmonary Vascular Remodeling. Antioxidants and Redox Signaling, 2013, 19, 2213-2231.	2.5	62
103	Conditional Transgenic Expression of Fibroblast Growth Factor 9 in the Adult Mouse Heart Reduces Heart Failure Mortality After Myocardial Infarction. Circulation, 2011, 123, 504-514.	1.6	60
104	The Endoplasmic Reticulum Chaperone Calnexin Is a NADPH Oxidase NOX4 Interacting Protein. Journal of Biological Chemistry, 2016, 291, 7045-7059.	1.6	60
105	Nitric oxide downâ€•regulates the expression of the catalytic NADPH oxidase subunit Nox1 in rat renal mesangial cells. FASEB Journal, 2006, 20, 139-141.	0.2	58
106	Composition and Functions of Vascular Nicotinamide Adenine Dinucleotide Phosphate Oxidases. Trends in Cardiovascular Medicine, 2008, 18, 15-19.	2.3	58
107	Organizers and activators: Cytosolic Nox proteins impacting on vascular function. Free Radical Biology and Medicine, 2017, 109, 22-32.	1.3	58
108	Pleiotropic effects of laminar flow and statins depend on the KrÃ¼ppel-like factor-induced lncRNA MANTIS. European Heart Journal, 2019, 40, 2523-2533.	1.0	58

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109	Molecular mechanisms of hypoxiaâ€inducible factorâ€induced pulmonary arterial smooth muscle cell alterations in pulmonary hypertension. Journal of Physiology, 2016, 594, 1167-1177.	1.3	57
110	Nox2-dependent signaling between macrophages and sensory neurons contributes to neuropathic pain hypersensitivity. Pain, 2014, 155, 2161-2170.	2.0	55
111	Detection of Hydrogen Peroxide with Fluorescent Dyes. Antioxidants and Redox Signaling, 2018, 29, 585-602.	2.5	55
112	Inhibition of the Soluble Epoxide Hydrolase Promotes Albuminuria in Mice with Progressive Renal Disease. PLoS ONE, 2010, 5, e11979.	1.1	54
113	Glucose-Stimulated Insulin Secretion Fundamentally Requires H2O2 Signaling by NADPH Oxidase 4. Diabetes, 2020, 69, 1341-1354.	0.3	53
114	Inhibition of the soluble epoxide hydrolase attenuates monocrotaline-induced pulmonary hypertension in rats. Journal of Hypertension, 2009, 27, 322-331.	0.3	52
115	Soluble Epoxide Hydrolase Deficiency Attenuates Neointima Formation in the Femoral Cuff Model of Hyperlipidemic Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 909-914.	1.1	52
116	Hepatocyte Growth Factor Induces a Proangiogenic Phenotype and Mobilizes Endothelial Progenitor Cells by Activating Nox2. Antioxidants and Redox Signaling, 2011, 15, 915-923.	2.5	52
117	Levosimendan attenuates pulmonary vascular remodeling. Intensive Care Medicine, 2011, 37, 1368-1377.	3.9	52
118	Unchanged NADPH Oxidase Activity in Nox1-Nox2-Nox4 Triple Knockout Mice: What Do NADPH-Stimulated Chemiluminescence Assays Really Detect?. Antioxidants and Redox Signaling, 2016, 24, 392-399.	2.5	52
119	Both cardiomyocyte and endothelial cell Nox4 mediate protection against hemodynamic overload-induced remodelling. Cardiovascular Research, 2018, 114, 401-408.	1.8	52
120	The Polarity Protein Scrib Is Essential for Directed Endothelial Cell Migration. Circulation Research, 2013, 112, 924-934.	2.0	51
121	Hypoxia-Dependent Reactive Oxygen Species Signaling in the Pulmonary Circulation: Focus on Ion Channels. Antioxidants and Redox Signaling, 2015, 22, 537-552.	2.5	50
122	Estradiol regulates human QT-interval: acceleration of cardiac repolarization by enhanced KCNH2 membrane trafficking. European Heart Journal, 2016, 37, 640-650.	1.0	50
123	Leptin Potentiates Endothelium-Dependent Relaxation by Inducing Endothelial Expression of Neuronal NO Synthase. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1605-1612.	1.1	49
124	Bimodal role of NADPH oxidases in the regulation of biglycan-triggered IL-1Î² synthesis. Matrix Biology, 2016, 49, 61-81.	1.5	49
125	Left ventricular remodeling after myocardial infarction in mice with targeted deletion of the NADPH oxidase subunit gp91PHOX. Basic Research in Cardiology, 2006, 101, 127-132.	2.5	47
126	Inactivation of Extracellular Superoxide Dismutase Contributes to the Development of High-Volume Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 470-477.	1.1	46

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127	No Superoxideâ€"No Stress?. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1255-1257.	1.1	44
128	Oxidized phospholipids regulate amino acid metabolism through MTHFD2 to facilitate nucleotide release in endothelial cells. Nature Communications, 2018, 9, 2292.	5.8	44
129	Withdrawal of Cerivastatin Induces Monocyte Chemoattractant Protein 1 and Tissue Factor Expression in Cultured Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 1794-1800.	1.1	43
130	Soluble Epoxide Hydrolase Limits Mechanical Hyperalgesia during Inflammation. Molecular Pain, 2011, 7, 1744-8069-7-78.	1.0	43
131	Anti-atherosclerotic mechanisms of statin therapy. Current Opinion in Pharmacology, 2013, 13, 260-264.	1.7	42
132	Deficient angiogenesis in redox-dead Cys17Ser PKARIÎ± knock-in mice. Nature Communications, 2015, 6, 7920.	5.8	41
133	MIR503HG Loss Promotes Endothelial-to-Mesenchymal Transition in Vascular Disease. Circulation Research, 2021, 128, 1173-1190.	2.0	41
134	Hyperthyroidism enhances endothelium-dependent relaxation in the rat renal artery. Cardiovascular Research, 2003, 59, 181-188.	1.8	40
135	The NADPH organizers NoxO1 and p47phox are both mediators of diabetes-induced vascular dysfunction in mice. Redox Biology, 2018, 15, 12-21.	3.9	40
136	Antioxidant-oxidant balance in the glomerulus and proximal tubule of the rat kidney. Journal of Physiology, 1998, 509, 599-606.	1.3	39
137	Rho kinase contributes to basal vascular tone in humans: role of endothelium-derived nitric oxide. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H541-H547.	1.5	39
138	Loss of Nrf2 in bone marrow-derived macrophages impairs antigen-driven CD8+ T cell function by limiting GSH and Cys availability. Free Radical Biology and Medicine, 2015, 83, 77-88.	1.3	39
139	Evidence Against a Role for NADPH Oxidase Modulating Hepatic Vascular Tone in Cirrhosis. Gastroenterology, 2007, 133, 959-966.	0.6	37
140	Cytochrome P450 enzymes but not NADPH oxidases are the source of the NADPH-dependent lucigenin chemiluminescence in membrane assays. Free Radical Biology and Medicine, 2017, 102, 57-66.	1.3	37
141	IL-6 augments IL-4-induced polarization of primary human macrophages through synergy of STAT3, STAT6 and BATF transcription factors. OncoImmunology, 2018, 7, e1494110.	2.1	37
142	Shear stress regulates cystathionine Î³ lyase expression to preserve endothelial redox balance and reduce membrane lipid peroxidation. Redox Biology, 2020, 28, 101379.	3.9	37
143	Redox Regulation and Noncoding RNAs. Antioxidants and Redox Signaling, 2018, 29, 793-812.	2.5	36
144	Critical role for p47phox in reninâ€"angiotensin system activation and blood pressure regulation. Cardiovascular Research, 2006, 71, 596-605.	1.8	35

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145	SYNCRIP-Dependent <i>Nox2</i> mRNA Destabilization Impairs ROS Formation in M2-Polarized Macrophages. Antioxidants and Redox Signaling, 2014, 21, 2483-2497.	2.5	35
146	NOX4-dependent Hydrogen peroxide promotes shear stress-induced SHP2 sulfenylation and eNOS activation. Free Radical Biology and Medicine, 2015, 89, 419-430.	1.3	35
147	Long noncoding RNA LISPR1 is required for S1P signaling and endothelial cell function. Journal of Molecular and Cellular Cardiology, 2018, 116, 57-68.	0.9	35
148	Trafficking-deficient long QT syndrome mutation KCNQ1-T587M confers severe clinical phenotype by impairment of KCNH2 membrane localization: Evidence for clinically significant IKr-IKs Î±-subunit interaction. Heart Rhythm, 2009, 6, 1792-1801.	0.3	34
149	Laminar shear stress regulates mitochondrial dynamics, bioenergetics responses and PRX3 activation in endothelial cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2403-2413.	1.9	34
150	<scp>PAR</scp> â€3 controls endothelial planar polarity and vascular inflammation under laminar flow. EMBO Reports, 2018, 19, .	2.0	34
151	Epigenetic Regulation of Angiogenesis by JARID1B-Induced Repression of HOXA5. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1645-1652.	1.1	33
152	CRISPR/Cas9-mediated knockout of p22phox leads to loss of Nox1 and Nox4, but not Nox5 activity. Redox Biology, 2016, 9, 287-295.	3.9	33
153	Direct detection of reactive oxygen species ex vivo. Kidney International, 2005, 67, 1662-1664.	2.6	32
154	Long non-coding RNAs: novel regulators of cellular physiology and function. Pflugers Archiv European Journal of Physiology, 2022, 474, 191-204.	1.3	32
155	Biglycan- and Sphingosine Kinase-1 Signaling Crosstalk Regulates the Synthesis of Macrophage Chemoattractants. International Journal of Molecular Sciences, 2017, 18, 595.	1.8	31
156	Role of p22phox in angiotensinï¿½II and platelet-derived growth factor AA induced activator protein 1 activation in vascular smooth muscle cells. Journal of Molecular Medicine, 2004, 82, 31-38.	1.7	29
157	Lung Ischaemiaâ€"Reperfusion Injury: The Role of Reactive Oxygen Species. Advances in Experimental Medicine and Biology, 2017, 967, 195-225.	0.8	29
158	A hierarchical regulatory network analysis of the vitamin D induced transcriptome reveals novel regulators and complete VDR dependency in monocytes. Scientific Reports, 2021, 11, 6518.	1.6	28
159	Inhibition of the Soluble Epoxide Hydrolase by Tyrosine Nitration. Journal of Biological Chemistry, 2009, 284, 28156-28163.	1.6	27
160	Endo-PDI is required for TNFÎ±-induced angiogenesis. Free Radical Biology and Medicine, 2013, 65, 1398-1407.	1.3	27
161	NADPH oxidase 4 regulates homocysteine metabolism and protects against acetaminophen-induced liver damage in mice. Free Radical Biology and Medicine, 2015, 89, 918-930.	1.3	27
162	NADPH oxidase 4 modulates hepatic responses to lipopolysaccharide mediated by Toll-like receptor-4. Scientific Reports, 2017, 7, 14346.	1.6	27

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