Michael S Wolin

List of Publications by Year in Descending Order

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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.

113 6,709 41 81 g-index

123 7,088 6 sext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
113	Human Cord Blood Derived Unrestricted Somatic Stem Cells Restore Aquaporin Channel Expression, Reduce Inflammation and Inhibit the Development of Hydrocephalus After Experimentally Induced Perinatal Intraventricular Hemorrhage. Frontiers in Cellular Neuroscience,	6.1	5
112	Redox and Inflammatory Signaling, the Unfolded Protein Response, and the Pathogenesis of Pulmonary Hypertension. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1304, 333-373	3.6	2
111	Increased extracellular superoxide and MMP9 attenuated COMP stabilization of BMPR2 potentially participate in pulmonary hypertension development. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
110	Pluripotent hematopoietic stem cells augment Edrenergic receptor-mediated contraction of pulmonary artery and contribute to the pathogenesis of pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 318, L386-L401	5.8	3
109	Potential role of cartilage oligomeric matrix protein in the modulation of pulmonary arterial smooth muscle superoxide by hypoxia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019 , 317, L569-L577	5.8	6
108	Reciprocal actions of constrictor prostanoids and superoxide in chronic hypoxia-induced pulmonary hypertension: roles of EETs. <i>Pulmonary Circulation</i> , 2019 , 9, 2045894019895947	2.7	1
107	Metabolism and Redox in Pulmonary Vascular Physiology and Pathophysiology. <i>Antioxidants and Redox Signaling</i> , 2019 , 31, 752-769	8.4	5
106	Inhibition of ferrochelatase impairs vascular eNOS/NO and sGC/cGMP signaling. <i>PLoS ONE</i> , 2018 , 13, e0200307	3.7	4
105	EETs exacerbate chronic hypoxia-induced pulmonary hypertension. <i>FASEB Journal</i> , 2018 , 32, 561.8	0.9	
104	Endothelin-1 and COMP Regulate Heme Biosynthesis and Guanylate Cyclase Expression in Smooth Muscle of Pulmonary Arteries. <i>FASEB Journal</i> , 2018 , 32, lb402	0.9	1
103	EETs promote hypoxic pulmonary vasoconstriction via constrictor prostanoids. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 313, L350-L359	5.8	19
102	Redox Mechanisms Influencing cGMP Signaling in Pulmonary Vascular Physiology and Pathophysiology. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 967, 227-240	3.6	7
101	EETs Elicit Direct Increases in Pulmonary Arterial Pressure in Mice. <i>American Journal of Hypertension</i> , 2016 , 29, 598-604	2.3	14
100	Potential role of mitochondrial superoxide decreasing ferrochelatase and heme in coronary artery soluble guanylate cyclase depletion by angiotensin II. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H1439-47	5.2	17
99	Oxidant Mechanisms in Renal Injury and Disease. Antioxidants and Redox Signaling, 2016, 25, 119-46	8.4	310
98	Iron Metabolism and Vascular Remodeling: Novel Insights Provided by Transferrin-1 Receptor Depletion in Mice With Pulmonary Hypertension. <i>American Journal of Hypertension</i> , 2016 , 29, 676-8	2.3	1
97	Rotenone-stimulated superoxide release from mitochondrial complex I acutely augments L-type Ca2+ current in A7r5 aortic smooth muscle cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H1118-28	5.2	9

(2010-2016)

96	Involvement of gap junctions between smooth muscle cells in sustained hypoxic pulmonary vasoconstriction development: a potential role for 15-HETE and 20-HETE. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 310, L772-83	5.8	8
95	Inhibition of soluble epoxide hydrolase increases coronary perfusion in mice. <i>Physiological Reports</i> , 2015 , 3, e12427	2.6	11
94	EET-dependent potentiation of pulmonary arterial pressure: sex-different regulation of soluble epoxide hydrolase. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 309, L1478-86	5.8	15
93	Role of homocysteinylation of ACE in endothelial dysfunction of arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 308, H92-100	5.2	11
92	Heme biosynthesis modulation via Eminolevulinic acid administration attenuates chronic hypoxia-induced pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 308, L719-28	5.8	16
91	Geranylgeranylacetone blocks doxorubicin-induced cardiac toxicity and reduces cancer cell growth and invasion through RHO pathway inhibition. <i>Molecular Cancer Therapeutics</i> , 2014 , 13, 1717-28	6.1	9
90	Exposure of mice to chronic hypoxia attenuates pulmonary arterial contractile responses to acute hypoxia by increases in extracellular hydrogen peroxide. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014 , 307, R426-33	3.2	14
89	Reactive Oxygen Species and Nitric Oxide in Vascular Function. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2014 , 15-33		1
88	Evidence for novel aspects of Nox4 oxidase regulation of mitochondrial function and peroxide generation in an endothelial cell model of senescence. <i>Biochemical Journal</i> , 2013 , 452, e1-2	3.8	12
87	Role of peroxiredoxin-1 in regulation of PKG dimerization associated with relaxation to hydrogen peroxide in bovine pulmonary arteries. <i>FASEB Journal</i> , 2013 , 27, 920.8	0.9	
86	Treatment of mice with delta-aminolevulinic acid, a generator of the guanylate cyclase activator protoporphyrin IX, prevents the development of hypoxia-induced pulmonary hypertension. <i>FASEB Journal</i> , 2012 , 26, 873.20	0.9	1
85	Roles for Cytosolic NADPH Redox in Regulating Pulmonary Artery Relaxation by Thiol Oxidation-Elicited Subunit Dimerization of Protein Kinase G 1\(\pi\) FASEB Journal, 2012 , 26, 873.16	0.9	
84	Role of Oxygen-Derived Species in the Regulation of Pulmonary Vascular Tone 2011 , 301-311		
83	Bi-modal dose-dependent cardiac response to tetrahydrobiopterin in pressure-overload induced hypertrophy and heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 564-9	5.8	39
82	Nox2 Derived Extracellular Superoxide Attenuates Hypoxic Pulmonary Vasoconstriction through a Novel Mechanism in the Presence of Increased Extracellular Superoxide Dismutase. <i>FASEB Journal</i> , 2011 , 25, 1102.4	0.9	1
81	Treatment of Mice with Cobalt Protoporphyrin, an Inducer of Heme Oxygenase and ecSOD, Prevents the Development of Pulmonary Hypertension Caused by Chronic Hypoxia. <i>FASEB Journal</i> , 2011 , 25, 1034.11	0.9	
80	Redox regulation of responses to hypoxia and NO-cGMP signaling in pulmonary vascular pathophysiology. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1203, 126-32	6.5	14
79	Oxidant-redox regulation of pulmonary vascular responses to hypoxia and nitric oxide-cGMP signaling. <i>Cardiology in Review</i> , 2010 , 18, 89-93	3.2	27

78	Redox regulation of guanylate cyclase and protein kinase G in vascular responses to hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2010 , 174, 259-64	2.8	21
77	Cycloxygenase-2 Inhibition in Endothelium Removed Bovine Pulmonary Arteries Causes Attenuation of Hypoxic Pulmonary Vasoconstriction. <i>FASEB Journal</i> , 2010 , 24, 795.2	0.9	
76	Short and Long term Peroxide Removal Modulates Relaxing and Contracting Mechanisms Influencing the Response of Bovine Pulmonary Arteries to Hypoxia. <i>FASEB Journal</i> , 2010 , 24, 795.1	0.9	
75	Oxidative stress and accelerated vascular aging: implications for cigarette smoking. <i>Frontiers in Bioscience - Landmark</i> , 2009 , 14, 3128-44	2.8	126
74	Reactive oxygen species and the control of vascular function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H539-49	5.2	101
73	Peroxide generation by p47phox-Src activation of Nox2 has a key role in protein kinase C-induced arterial smooth muscle contraction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H1048-57	5.2	52
72	Adverse ventricular remodeling and exacerbated NOS uncoupling from pressure-overload in mice lacking the beta3-adrenoreceptor. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 576-85	5.8	73
71	Nox-4 siRNA Causes Attenuation of Hypoxic Pulmonary Vasoconstriction in Bovine Pulmonary Arteries. <i>FASEB Journal</i> , 2009 , 23, 1002.8	0.9	2
70	Heme Oxygenase-1 Induction Modulates Hypoxic Pulmonary Vasoconstriction through Upregulation of ecSOD. <i>FASEB Journal</i> , 2009 , 23, 1002.9	0.9	
69	Reversal of cardiac hypertrophy and fibrosis from pressure overload by tetrahydrobiopterin: efficacy of recoupling nitric oxide synthase as a therapeutic strategy. <i>Circulation</i> , 2008 , 117, 2626-36	16.7	206
68	Vasoprotective effects of resveratrol and SIRT1: attenuation of cigarette smoke-induced oxidative stress and proinflammatory phenotypic alterations. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H2721-35	5.2	211
67	Exercise training enhanced myocardial endothelial nitric oxide synthase (eNOS) function in diabetic Goto-Kakizaki (GK) rats. <i>Cardiovascular Diabetology</i> , 2008 , 7, 34	8.7	43
66	TGF ⊞ mediated increase in Nox-4 expression enhances hypoxic pulmonary vasoconstriction in bovine pulmonary arteries. <i>FASEB Journal</i> , 2008 , 22, 1174.3	0.9	3
65	Cholesterol regulates Endrenergic enhancement of L-type Ca current in rat ventricular myocytes. <i>FASEB Journal</i> , 2008 , 22, 1201.2	0.9	
64	Epiandrosterone activates BKCa channel in bovine coronary artery smooth muscle cells. <i>FASEB Journal</i> , 2008 , 22, 744.6	0.9	
63	Vascular superoxide and hydrogen peroxide production and oxidative stress resistance in two closely related rodent species with disparate longevity. <i>Aging Cell</i> , 2007 , 6, 783-97	9.9	94
62	Cigarette smoke-induced proinflammatory alterations in the endothelial phenotype: role of NAD(P)H oxidase activation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H130-9	5.2	162
61	Contribution of polyol pathway to arteriolar dysfunction in hyperglycemia. Role of oxidative stress, reduced NO, and enhanced PGH(2)/TXA(2) mediation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> 2007 , 293, H3096-104	5.2	29

(2004-2007)

60	Cytosolic NAD(P)H regulation of redox signaling and vascular oxygen sensing. <i>Antioxidants and Redox Signaling</i> , 2007 , 9, 671-8	8.4	26
59	Asymmetrical dimethylarginine inhibits shear stress-induced nitric oxide release and dilation and elicits superoxide-mediated increase in arteriolar tone. <i>Hypertension</i> , 2007 , 49, 563-8	8.5	35
58	Upregulation of glucose-6-phosphate dehydrogenase and NAD(P)H oxidase activity increases oxidative stress in failing human heart. <i>Journal of Cardiac Failure</i> , 2007 , 13, 497-506	3.3	62
57	Subcellular Changes in NAD(P)H Redox Caused by Hypoxia in Bovine Coronary Artery Smooth Muscle Cells <i>FASEB Journal</i> , 2007 , 21, A1228	0.9	
56	Mechanism of Cardiovascular Mortality During Low Sodium Diet: NO Bioavailability And The Renin Angiotensin-NADPH Oxidase System. <i>FASEB Journal</i> , 2007 , 21, A524	0.9	
55	Mechanosensitive production of reactive oxygen species in endothelial and smooth muscle cells: role in microvascular remodeling?. <i>Antioxidants and Redox Signaling</i> , 2006 , 8, 1121-9	8.4	52
54	Bone morphogenetic protein-2 induces proinflammatory endothelial phenotype. <i>American Journal of Pathology</i> , 2006 , 168, 629-38	5.8	130
53	Glucose-6-phosphate dehydrogenase-derived NADPH fuels superoxide production in the failing heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2006 , 41, 340-9	5.8	115
52	Opportunistic Infection, Expression of INOS and Nitrotyrosine in Gp91 Knockout Mice. <i>FASEB Journal</i> , 2006 , 20, A1458	0.9	
51	Superoxide in monocrotaline-induced pulmonary hypertension: an innocent bystander?. <i>FASEB Journal</i> , 2006 , 20, A401	0.9	
50	Cigarette smoke condensate induces vascular oxidative stress and inflammation. <i>FASEB Journal</i> , 2006 , 20, A726	0.9	
49	Superoxide released to asymmetric dimethylarginine (ADMA) interferes with the vasomotor responses of isolated arterioles. <i>FASEB Journal</i> , 2006 , 20, A1149	0.9	
48	Hydrogen peroxide derived from Nox-2 mediates protein kinase C-induced contraction of bovine coronary artery and mouse aorta. <i>FASEB Journal</i> , 2006 , 20, A724	0.9	1
47	Oxidant and redox signaling in vascular oxygen sensing mechanisms: basic concepts, current controversies, and potential importance of cytosolic NADPH. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005 , 289, L159-73	5.8	136
46	The sources of oxidative stress in the vessel wall. <i>Kidney International</i> , 2005 , 67, 1659-61	9.9	45
45	Cytosolic NADPH may regulate differences in basal Nox oxidase-derived superoxide generation in bovine coronary and pulmonary arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H13-21	5.2	107
44	gp91phox-containing NAD(P)H oxidase mediates attenuation of nitric oxide-dependent control of myocardial oxygen consumption by ANG II. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H862-7	5.2	7
43	Reduced release of nitric oxide to shear stress in mesenteric arteries of aged rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H2249-56	5.2	136

42	Assessment of roles for oxidant mechanisms in vascular oxygen sensing. <i>Methods in Enzymology</i> , 2004 , 381, 166-75	1.7	2
41	Chronic high pressure-induced arterial oxidative stress: involvement of protein kinase C-dependent NAD(P)H oxidase and local renin-angiotensin system. <i>American Journal of Pathology</i> , 2004 , 165, 219-26	5.8	106
40	Interaction of Oxidants With Pulmonary Vascular Signaling Systems 2004, 247-262		
39	Pentose phosphate pathway coordinates multiple redox-controlled relaxing mechanisms in bovine coronary arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H2316-26	5 ^{5.2}	60
38	Potent metalloporphyrin peroxynitrite decomposition catalyst protects against the development of doxorubicin-induced cardiac dysfunction. <i>Circulation</i> , 2003 , 107, 896-904	16.7	240
37	Stretch enhances contraction of bovine coronary arteries via an NAD(P)H oxidase-mediated activation of the extracellular signal-regulated kinase mitogen-activated protein kinase cascade. <i>Circulation Research</i> , 2003 , 92, 23-31	15.7	137
36	High pressure induces superoxide production in isolated arteries via protein kinase C-dependent activation of NAD(P)H oxidase. <i>Circulation</i> , 2003 , 108, 1253-8	16.7	178
35	Increased superoxide production in coronary arteries in hyperhomocysteinemia: role of tumor necrosis factor-alpha, NAD(P)H oxidase, and inducible nitric oxide synthase. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003 , 23, 418-24	9.4	225
34	Superoxide in the vascular system. <i>Journal of Vascular Research</i> , 2002 , 39, 191-207	1.9	106
33	Aging-induced phenotypic changes and oxidative stress impair coronary arteriolar function. <i>Circulation Research</i> , 2002 , 90, 1159-66	15.7	449
32	New concepts in vascular nitric oxide signaling. Current Atherosclerosis Reports, 2000, 2, 437-44	6	9
31	Depressed modulation of oxygen consumption by endogenous nitric oxide in cardiac muscle from diabetic dogs. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H520-7	5.2	14
30	Alterations in relaxation to lactate and H(2)O(2) in human placental vessels from gestational diabetic pregnancies. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H706	- ∮ 3	17
29	Interactions of oxidants with vascular signaling systems. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 20, 1430-42	9.4	398
28	Thiol oxidation activates a novel redox-regulated coronary vasodilator mechanism involving inhibition of Ca2+ influx. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 20, 2359-65	9.4	29
27	Mechanisms through Which Reactive Nitrogen and Oxygen Species Interact with Physiological Signaling Systems 2000 , 277-292		2
26	Oxidants and Vascular Nitric Oxide Signaling 2000 , 33-48		2
25	NADPH and heme redox modulate pulmonary artery relaxation and guanylate cyclase activation by NO. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999 , 277, L1124-32	5.8	27

24	Inhibition of guanylate cyclase stimulation by NO and bovine arterial relaxation to peroxynitrite and H2O2. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H978-85	5.2	32
23	Influence of glutathione peroxidase on coronary artery responses to alterations in PO2 and H2O2. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 276, H235-41	5.2	17
22	Regulation of NO-elicited pulmonary artery relaxation and guanylate cyclase activation by NADH oxidase and SOD. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 276, H1535-42	5.2	14
21	NO modulates myocardial O2 consumption in the nonhuman primate: an additional mechanism of action of amlodipine. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 276, H2069	9 ⁵ 7'5	10
20	A flavoprotein mechanism appears to prevent an oxygen-dependent inhibition of cGMP-associated nitric oxide-elicited relaxation of bovine coronary arteries. <i>Circulation Research</i> , 1999 , 85, 1027-31	15.7	14
19	Potential role of a membrane-bound NADH oxidoreductase in nitric oxide release and arterial relaxation to nitroprusside. <i>Circulation Research</i> , 1999 , 84, 220-8	15.7	31
18	Roles for NAD(P)H oxidases and reactive oxygen species in vascular oxygen sensing mechanisms. <i>Respiration Physiology</i> , 1999 , 115, 229-38		56
17	Endogenous endothelial nitric oxide synthase-derived nitric oxide is a physiological regulator of myocardial oxygen consumption. <i>Circulation Research</i> , 1999 , 84, 840-5	15.7	171
16	Nitric oxide as a regulator of tissue oxygen consumption. <i>Current Opinion in Nephrology and Hypertension</i> , 1999 , 8, 97-103	3.5	26
15	Role of nitric oxide in the control of mitochondrial function. <i>Advances in Experimental Medicine and Biology</i> , 1999 , 471, 381-8	3.6	22
14	S-Nitroglutathione, a product of the reaction between peroxynitrite and glutathione that generates nitric oxide. <i>Journal of Biological Chemistry</i> , 1998 , 273, 32009-15	5.4	110
13	Inhibition of rat cardiac muscle contraction and mitochondrial respiration by endogenous peroxynitrite formation during posthypoxic reoxygenation. <i>Circulation Research</i> , 1998 , 82, 891-7	15.7	97
12	ACE inhibitors promote nitric oxide accumulation to modulate myocardial oxygen consumption. <i>Circulation</i> , 1997 , 95, 176-82	16.7	127
11	Lactate and PO2 modulate superoxide anion production in bovine cardiac myocytes: potential role of NADH oxidase. <i>Circulation</i> , 1997 , 96, 614-20	16.7	110
10	Modulation by atrial natriuretic factor of receptor-mediated cyclic AMP-dependent responses in canine pulmonary artery during heart failure. <i>British Journal of Pharmacology</i> , 1996 , 118, 1886-90	8.6	1
9	Reactive oxygen species and vascular signal transduction mechanisms. <i>Microcirculation</i> , 1996 , 3, 1-17	2.9	110
8	Role of nitric oxide and its interaction with superoxide in the suppression of cardiac muscle mitochondrial respiration. Involvement in response to hypoxia/reoxygenation. <i>Circulation</i> , 1996 , 94, 258	8 6 -67	122
7	Nitric oxide and the depressor response to angiotensin blockade in hypertension. <i>Hypertension</i> , 1996 , 27, 19-24	8.5	20

6	Role of endothelium-derived nitric oxide in the modulation of canine myocardial mitochondrial respiration in vitro. Implications for the development of heart failure. <i>Circulation Research</i> , 1996 , 79, 381-7	15.7	161
5	Nitric oxide production and NO synthase gene expression contribute to vascular regulation during exercise. <i>Medicine and Science in Sports and Exercise</i> , 1995 , 27, 1125???1134	1.2	74
4	Pharmacodynamics of plasma nitrate/nitrite as an indication of nitric oxide formation in conscious dogs. <i>Circulation</i> , 1995 , 91, 2982-8	16.7	154
3	Nitric oxide. An important signaling mechanism between vascular endothelium and parenchymal cells in the regulation of oxygen consumption. <i>Circulation</i> , 1995 , 92, 3505-12	16.7	183
2	Native low-density lipoprotein increases endothelial cell nitric oxide synthase generation of superoxide anion. <i>Circulation Research</i> , 1995 , 77, 510-8	15.7	322
1	Bradykinin induces superoxide anion release from human endothelial cells. <i>Journal of Cellular Physiology</i> , 1990 , 143, 21-5	7	125