

Hua Cai

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72
papers

9,096
citations

36
h-index

78
g-index

78
ext. papers

10,085
ext. citations

7.9
avg, IF

6.95
L-index

#	Paper	IF	Citations
72	Endothelial dysfunction in cardiovascular diseases: the role of oxidant stress. <i>Circulation Research</i> , 2000 , 87, 840-4	15.7	2993
71	The vascular NAD(P)H oxidases as therapeutic targets in cardiovascular diseases. <i>Trends in Pharmacological Sciences</i> , 2003 , 24, 471-8	13.2	583
70	Role of p47(phox) in vascular oxidative stress and hypertension caused by angiotensin II. <i>Hypertension</i> , 2002 , 40, 511-5	8.5	485
69	Hydrogen peroxide regulation of endothelial function: origins, mechanisms, and consequences. <i>Cardiovascular Research</i> , 2005 , 68, 26-36	9.9	418
68	Transcriptional and posttranscriptional regulation of endothelial nitric oxide synthase expression by hydrogen peroxide. <i>Circulation Research</i> , 2000 , 86, 347-54	15.7	350
67	Sex difference and smoking predisposition in patients with COVID-19. <i>Lancet Respiratory Medicine</i> , 2020 , 8, e20	35.1	333
66	Endothelial dihydrofolate reductase: critical for nitric oxide bioavailability and role in angiotensin II uncoupling of endothelial nitric oxide synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9056-61	11.5	274
65	Downregulation of endocardial nitric oxide synthase expression and nitric oxide production in atrial fibrillation: potential mechanisms for atrial thrombosis and stroke. <i>Circulation</i> , 2002 , 106, 2854-8	16.7	274
64	Shear stress regulates endothelial nitric oxide synthase expression through c-Src by divergent signaling pathways. <i>Circulation Research</i> , 2001 , 89, 1073-80	15.7	247
63	NAD(P)H oxidase-dependent self-propagation of hydrogen peroxide and vascular disease. <i>Circulation Research</i> , 2005 , 96, 818-22	15.7	203
62	Interactions of angiotensin II with NAD(P)H oxidase, oxidant stress and cardiovascular disease. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , 2003 , 4, 51-61	3	175
61	Akt-dependent phosphorylation of serine 1179 and mitogen-activated protein kinase kinase/extracellular signal-regulated kinase 1/2 cooperatively mediate activation of the endothelial nitric-oxide synthase by hydrogen peroxide. <i>Molecular Pharmacology</i> , 2003 , 63, 325-31	4.3	159
60	NAD(P)H oxidase-derived hydrogen peroxide mediates endothelial nitric oxide production in response to angiotensin II. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48311-7	5.4	149
59	NADPH oxidases and oxidase crosstalk in cardiovascular diseases: novel therapeutic targets. <i>Nature Reviews Cardiology</i> , 2020 , 17, 170-194	14.8	149
58	Oxidative stress in atrial fibrillation: an emerging role of NADPH oxidase. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 62, 72-9	5.8	133
57	Induction of endothelial NO synthase by hydrogen peroxide via a Ca(2+)/calmodulin-dependent protein kinase II/janus kinase 2-dependent pathway. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001 , 21, 1571-6	9.4	130
56	Netrin-1 induces angiogenesis via a DCC-dependent ERK1/2-eNOS feed-forward mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 6530-5	11.5	129

55	Attenuation of angiotensin II signaling recouples eNOS and inhibits nonendothelial NOX activity in diabetic mice. <i>Diabetes</i> , 2007 , 56, 118-26	0.9	126
54	Mechanisms and consequences of endothelial nitric oxide synthase dysfunction in hypertension. <i>Journal of Hypertension</i> , 2015 , 33, 1128-36	1.9	120
53	Role of vascular oxidative stress in obesity and metabolic syndrome. <i>Diabetes</i> , 2014 , 63, 2344-55	0.9	101
52	An ezrin/calpain/PI3K/AMPK/eNOSs1179 signaling cascade mediating VEGF-dependent endothelial nitric oxide production. <i>Circulation Research</i> , 2009 , 104, 50-9	15.7	97
51	The p47phox- and NADPH oxidase organizer 1 (NOXO1)-dependent activation of NADPH oxidase 1 (NOX1) mediates endothelial nitric oxide synthase (eNOS) uncoupling and endothelial dysfunction in a streptozotocin-induced murine model of diabetes. <i>Diabetologia</i> , 2012 , 55, 2069-79	10.3	92
50	Role of c-Src in regulation of endothelial nitric oxide synthase expression during exercise training. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 284, H1449-53	5.2	84
49	Role of uncoupled endothelial nitric oxide synthase in abdominal aortic aneurysm formation: treatment with folic acid. <i>Hypertension</i> , 2012 , 59, 158-66	8.5	80
48	Mechanistic insights into folic acid-dependent vascular protection: dihydrofolate reductase (DHFR)-mediated reduction in oxidant stress in endothelial cells and angiotensin II-infused mice: a novel HPLC-based fluorescent assay for DHFR activity. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 752-60	5.8	75
47	Role of CaMKII in hydrogen peroxide activation of ERK1/2, p38 MAPK, HSP27 and actin reorganization in endothelial cells. <i>FEBS Letters</i> , 2004 , 572, 307-13	3.8	73
46	CaM Kinase II-dependent pathophysiological signalling in endothelial cells. <i>Cardiovascular Research</i> , 2008 , 77, 30-4	9.9	70
45	Hemodynamic and biochemical adaptations to vascular smooth muscle overexpression of p22phox in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H7-12	5.2	69
44	Netrin-1 prevents ischemia/reperfusion-induced myocardial infarction via a DCC/ERK1/2/eNOS s1177/NO/DCC feed-forward mechanism. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 48, 1060-70 ^{5.8}	5.8	65
43	Oscillatory shear stress upregulation of endothelial nitric oxide synthase requires intracellular hydrogen peroxide and CaMKII. <i>Journal of Molecular and Cellular Cardiology</i> , 2004 , 37, 121-5	5.8	62
42	Actin cytoskeleton organization and posttranscriptional regulation of endothelial nitric oxide synthase during cell growth. <i>Circulation Research</i> , 2004 , 95, 488-95	15.7	61
41	Detection of reactive oxygen species and nitric oxide in vascular cells and tissues: comparison of sensitivity and specificity. <i>Methods in Molecular Medicine</i> , 2007 , 139, 293-311		45
40	Netrin-1 abrogates ischemia/reperfusion-induced cardiac mitochondrial dysfunction via nitric oxide-dependent attenuation of NOX4 activation and recoupling of NOS. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 78, 174-85	5.8	40
39	Traditional Chinese Medicine (TCM) in the treatment of COVID-19 and other viral infections: Efficacies and mechanisms. <i>Pharmacology & Therapeutics</i> , 2021 , 225, 107843	13.9	39
38	Recoupling of eNOS with folic acid prevents abdominal aortic aneurysm formation in angiotensin II-infused apolipoprotein E null mice. <i>PLoS ONE</i> , 2014 , 9, e88899	3.7	38

37	NOX4-Dependent Hydrogen Peroxide Overproduction in Human Atrial Fibrillation and HL-1 Atrial Cells: Relationship to Hypertension. <i>Frontiers in Physiology</i> , 2012 , 3, 140	4.6	37
36	NOX isoforms in the development of abdominal aortic aneurysm. <i>Redox Biology</i> , 2017 , 11, 118-125	11.3	36
35	Targeting NOX4 alleviates sepsis-induced acute lung injury via attenuation of redox-sensitive activation of CaMKII/ERK1/2/MLCK and endothelial cell barrier dysfunction. <i>Redox Biology</i> , 2020 , 36, 101638	11.3	36
34	Differential Roles of Protein Complexes NOX1-NOXO1 and NOX2-p47phox in Mediating Endothelial Redox Responses to Oscillatory and Unidirectional Laminar Shear Stress. <i>Journal of Biological Chemistry</i> , 2016 , 291, 8653-62	5.4	31
33	Sepiapterin reductase regulation of endothelial tetrahydrobiopterin and nitric oxide bioavailability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 297, H331-9	5.2	27
32	Endothelium-specific sepiapterin reductase deficiency in DOCA-salt hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H2243-9	5.2	27
31	KDM4B protects against obesity and metabolic dysfunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5566-E5575	11.5	26
30	Graphical review: The redox dark side of e-cigarettes; exposure to oxidants and public health concerns. <i>Redox Biology</i> , 2017 , 13, 402-406	11.3	25
29	Endothelial cell calpain as a critical modulator of angiogenesis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 1326-1335	6.9	24
28	Central role of SIAH inhibition in DCC-dependent cardioprotection provoked by netrin-1/NO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 899-904	11.5	23
27	Protein Phosphotyrosine Phosphatase 1B (PTP1B) in Calpain-dependent Feedback Regulation of Vascular Endothelial Growth Factor Receptor (VEGFR2) in Endothelial Cells: IMPLICATIONS IN VEGF-DEPENDENT ANGIOGENESIS AND DIABETIC WOUND HEALING. <i>Journal of Biological Chemistry</i> , 2017 , 292, 407-416	5.4	22
26	Bone Morphogenic Protein 4 Mediates NOX1-Dependent eNOS Uncoupling, Endothelial Dysfunction, and COX2 Induction in Type 2 Diabetes Mellitus. <i>Molecular Endocrinology</i> , 2015 , 29, 1123-33		21
25	Cardiac vulnerability to ischemia/reperfusion injury drastically increases in late pregnancy. <i>Basic Research in Cardiology</i> , 2012 , 107, 271	11.8	21
24	Netrin-1 improves post-injury cardiac function in vivo via DCC/NO-dependent preservation of mitochondrial integrity, while attenuating autophagy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015 , 1852, 277-89	6.9	20
23	Knockout of dihydrofolate reductase in mice induces hypertension and abdominal aortic aneurysm via mitochondrial dysfunction. <i>Redox Biology</i> , 2019 , 24, 101185	11.3	19
22	Pharmacological postconditioning treatment of myocardial infarction with netrin-1. <i>Frontiers in Bioscience - Landmark</i> , 2014 , 19, 566-70	2.8	17
21	Nifedipine attenuation of abdominal aortic aneurysm in hypertensive and non-hypertensive mice: Mechanisms and implications. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 87, 152-9	5.8	16
20	NADPH oxidase 4 induces cardiac arrhythmic phenotype in zebrafish. <i>Journal of Biological Chemistry</i> , 2014 , 289, 23200-23208	5.4	15

19	Aminoguanidine inhibits aortic hydrogen peroxide production, VSMC NOX activity and hypercontractility in diabetic mice. <i>Cardiovascular Diabetology</i> , 2009 , 8, 65	8.7	13
18	Novel Treatment of Hypertension by Specifically Targeting E2F for Restoration of Endothelial Dihydrofolate Reductase and eNOS Function Under Oxidative Stress. <i>Hypertension</i> , 2019 , 73, 179-189	8.5	13
17	Attenuation of neointimal formation with netrin-1 and netrin-1 preconditioned endothelial progenitor cells. <i>Journal of Molecular Medicine</i> , 2017 , 95, 335-348	5.5	11
16	Targeting feed-forward signaling of TGF β /NOX4/DHFR/eNOS uncoupling/TGF β axis with anti-TGF β and folic acid attenuates formation of aortic aneurysms: Novel mechanisms and therapeutics. <i>Redox Biology</i> , 2021 , 38, 101757	11.3	10
15	Induction of cardioprotection by small netrin-1-derived peptides. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 309, C100-6	5.4	9
14	Circulating tetrahydrobiopterin as a novel biomarker for abdominal aortic aneurysm. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H1559-64	5.2	7
13	Inhibition of XO or NOX attenuates diethylstilbestrol-induced endothelial nitric oxide deficiency without affecting its effects on LNCaP cell invasion and apoptosis. <i>Clinical Science</i> , 2012 , 123, 509-18	6.5	7
12	Toll-Like Receptor 2 (TLR2) Knockout Abrogates Diabetic and Obese Phenotypes While Restoring Endothelial Function via Inhibition of NOX1. <i>Diabetes</i> , 2021 , 70, 2107-2119	0.9	7
11	Surviving With Smog and Smoke: Precision Interventions?. <i>Chest</i> , 2017 , 152, 925-929	5.3	6
10	Therapeutic application of estrogen for COVID-19: Attenuation of SARS-CoV-2 spike protein and IL-6 stimulated, ACE2-dependent NOX2 activation, ROS production and MCP-1 upregulation in endothelial cells. <i>Redox Biology</i> , 2021 , 46, 102099	11.3	6
9	Fueling up skeletal muscle to reduce obesity: A TrkB story. <i>Chemistry and Biology</i> , 2015 , 22, 311-2		5
8	Oxidase Interactions in Cardiovascular Disease 2014 , 849-876		3
7	Targeting MicroRNA-192-5p, a Downstream Effector of NOXs (NADPH Oxidases), Reverses Endothelial DHFR (Dihydrofolate Reductase) Deficiency to Attenuate Abdominal Aortic Aneurysm Formation. <i>Hypertension</i> , 2021 , 78, 282-293	8.5	3
6	eNAMPT is a Novel DAMP that Contributes to the Severity of Radiation-Induced Lung Fibrosis.. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022 ,	5.7	2
5	Flavored and Nicotine-Containing E-Cigarettes Induce Impaired Angiogenesis and Diabetic Wound Healing via Increased Endothelial Oxidative Stress and Reduced NO Bioavailability. <i>Antioxidants</i> , 2022 , 11, 904	7.1	2
4	More to Explore: Further Definition of Risk Factors for COPD - Differential Gender Difference, Modest Elevation in PM., and e-Cigarette Use. <i>Frontiers in Physiology</i> , 2021 , 12, 669152	4.6	0
3	Reversal of NADPH Oxidase-Dependent Early Oxidative and Inflammatory Responses in Chronic Obstructive Pulmonary Disease by Puerarin. <i>Oxidative Medicine and Cellular Longevity</i> , 2022 , 2022, 1-24	6.7	0
2	Novel and robust attenuating effects on pulmonary hypertension of Netrin-1 and netrin-1-derived small peptides. <i>Redox Biology</i> , 2022 , 102348	11.3	0

- 1 Novel Treatment of Hypertension by Specifically Targeting E2F for Restoration of Endothelial Dihydrofolate Reductase and eNOS Function Under Oxidative Stress. *FASEB Journal*, **2019**, 33, 835.15 0.9