

Hua Cai

List of Publications by Year in descending order

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76
papers

11,009
citations

87843

38
h-index

82499

72
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78
all docs

78
docs citations

78
times ranked

12939
citing authors

#	ARTICLE	IF	CITATIONS
1	Endothelial Dysfunction in Cardiovascular Diseases: The Role of Oxidant Stress. <i>Circulation Research</i> , 2000, 87, 840-844.	2.0	3,329
2	The vascular NAD(P)H oxidases as therapeutic targets in cardiovascular diseases. <i>Trends in Pharmacological Sciences</i> , 2003, 24, 471-478.	4.0	627
3	Role of p47 phox in Vascular Oxidative Stress and Hypertension Caused by Angiotensin II. <i>Hypertension</i> , 2002, 40, 511-515.	1.3	533
4	Hydrogen peroxide regulation of endothelial function: Origins, mechanisms, and consequences. <i>Cardiovascular Research</i> , 2005, 68, 26-36.	1.8	483
5	Sex difference and smoking predisposition in patients with COVID-19. <i>Lancet Respiratory Medicine</i> , 2020, 8, e20.	5.2	463
6	Transcriptional and Posttranscriptional Regulation of Endothelial Nitric Oxide Synthase Expression by Hydrogen Peroxide. <i>Circulation Research</i> , 2000, 86, 347-354.	2.0	383
7	Downregulation of Endocardial Nitric Oxide Synthase Expression and Nitric Oxide Production in Atrial Fibrillation. <i>Circulation</i> , 2002, 106, 2854-2858.	1.6	329
8	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, 9056-9061.	3.3	311
9	NADPH oxidases and oxidase crosstalk in cardiovascular diseases: novel therapeutic targets. <i>Nature Reviews Cardiology</i> , 2020, 17, 170-194.	6.1	298
10	Shear Stress Regulates Endothelial Nitric Oxide Synthase Expression Through c-Src by Divergent Signaling Pathways. <i>Circulation Research</i> , 2001, 89, 1073-1080.	2.0	274
11	Traditional Chinese Medicine (TCM) in the treatment of COVID-19 and other viral infections: Efficacies and mechanisms. , 2021, 225, 107843.		258
12	NAD(P)H Oxidase-Dependent Self-Propagation of Hydrogen Peroxide and Vascular Disease. <i>Circulation Research</i> , 2005, 96, 818-822.	2.0	214
13	The Pickering Lecture British Hypertension Society, 10th September 2002. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , 2003, 4, 51-61.	1.0	185
14	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, 325-331.	1.0	178
15	Mechanisms and consequences of endothelial nitric oxide synthase dysfunction in hypertension. <i>Journal of Hypertension</i> , 2015, 33, 1128-1136.	0.3	178
16	Oxidative stress in atrial fibrillation: An emerging role of NADPH oxidase. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 62, 72-79.	0.9	172
17	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, 48311-48317.	1.6	164
18	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, 6530-6535.	3.3	149

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19	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, 1571-1576.	1.1	145
20	Attenuation of Angiotensin II Signaling Recouples eNOS and Inhibits Nonendothelial NOX Activity in Diabetic Mice. <i>Diabetes</i> , 2007, 56, 118-126.	0.3	143
21	Role of Vascular Oxidative Stress in Obesity and Metabolic Syndrome. <i>Diabetes</i> , 2014, 63, 2344-2355.	0.3	116
22	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, 2069-2079.	2.9	109
23	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.	3.9	108
24	An Ezrin/Calpain/PI3K/AMPK/eNOS Signaling Cascade Mediating VEGF-Dependent Endothelial Nitric Oxide Production. <i>Circulation Research</i> , 2009, 104, 50-59.	2.0	106
25	Role of Uncoupled Endothelial Nitric Oxide Synthase in Abdominal Aortic Aneurysm Formation. <i>Hypertension</i> , 2012, 59, 158-166.	1.3	102
26	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-H1453.	1.5	98
27	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, 752-760.	0.9	92
28	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, 307-313.	1.3	89
29	CaM Kinase II-dependent pathophysiological signalling in endothelial cells. <i>Cardiovascular Research</i> , 2007, 77, 30-34.	1.8	86
30	Netrin-1 prevents ischemia/reperfusion-induced myocardial infarction via a DCC/ERK1/2/eNOS/NO/DCC feed-forward mechanism. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 1060-1070.	0.9	84
31	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-H12.	1.5	77
32	Actin Cytoskeleton Organization and Posttranscriptional Regulation of Endothelial Nitric Oxide Synthase During Cell Growth. <i>Circulation Research</i> , 2004, 95, 488-495.	2.0	66
33	Oscillatory shear stress upregulation of endothelial nitric oxide synthase requires intracellular hydrogen peroxide and CaMKII*1. <i>Journal of Molecular and Cellular Cardiology</i> , 2004, 37, 121-125.	0.9	65
34	NOX isoforms in the development of abdominal aortic aneurysm. <i>Redox Biology</i> , 2017, 11, 118-125.	3.9	55
35	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.	1.1	53
36	Detection of Reactive Oxygen Species and Nitric Oxide in Vascular Cells and Tissues. <i>Methods in Molecular Medicine</i> , 2007, 139, 293-311.	0.8	50

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37	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, 174-185.	0.9	48
38	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.	3.3	47
39	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.	1.3	44
40	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.	3.9	38
41	Endothelial cell calpain as a critical modulator of angiogenesis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1326-1335.	1.8	37
42	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, 8653-8662.	1.6	35
43	Graphical review: The redox dark side of e-cigarettes; exposure to oxidants and public health concerns. <i>Redox Biology</i> , 2017, 13, 402-406.	3.9	35
44	Knockout of dihydrofolate reductase in mice induces hypertension and abdominal aortic aneurysm via mitochondrial dysfunction. <i>Redox Biology</i> , 2019, 24, 101185.	3.9	34
45	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, 277-289.	1.8	31
46	Protein Phosphotyrosine Phosphatase 1B (PTP1B) in Calpain-dependent Feedback Regulation of Vascular Endothelial Growth Factor Receptor (VEGFR2) in Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2017, 292, 407-416.	1.6	31
47	Targeting feed-forward signaling of TGF β ² /NOX4/DHFR/eNOS uncoupling/TGF β ² axis with anti-TGF β ² and folic acid attenuates formation of aortic aneurysms: Novel mechanisms and therapeutics. <i>Redox Biology</i> , 2021, 38, 101757.	3.9	31
48	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.	3.3	30
49	Sepiapterin reductase regulation of endothelial tetrahydrobiopterin and nitric oxide bioavailability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H331-H339.	1.5	29
50	Endothelium-specific sepiapterin reductase deficiency in DOCA-salt hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H2243-H2249.	1.5	29
51	Cardiac vulnerability to ischemia/reperfusion injury drastically increases in late pregnancy. <i>Basic Research in Cardiology</i> , 2012, 107, 271.	2.5	27
52	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, 152-159.	0.9	26
53	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, 1123-1133.	3.7	25
54	NADPH Oxidase 4 Induces Cardiac Arrhythmic Phenotype in Zebrafish. <i>Journal of Biological Chemistry</i> , 2014, 289, 23200-23208.	1.6	23

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55	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.	0.3	23
56	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.	1.3	22
57	Pharmacological postconditioning treatment of myocardial infarction with Netrin-1. <i>Frontiers in Bioscience - Landmark</i> , 2014, 19, 566.	3.0	20
58	eNAMPT Is a Novel Damage-associated Molecular Pattern Protein That Contributes to the Severity of Radiation-induced Lung Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 66, 497-509.	1.4	19
59	Aminoguanidine inhibits aortic hydrogen peroxide production, VSMC NOX activity and hypercontractility in diabetic mice. <i>Cardiovascular Diabetology</i> , 2009, 8, 65.	2.7	18
60	Attenuation of neointimal formation with netrin-1 and netrin-1 preconditioned endothelial progenitor cells. <i>Journal of Molecular Medicine</i> , 2017, 95, 335-348.	1.7	17
61	Induction of cardioprotection by small netrin-1-derived peptides. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 309, C100-C106.	2.1	12
62	Surviving With Smog and Smoke. <i>Chest</i> , 2017, 152, 925-929.	0.4	11
63	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.	2.2	10
64	Circulating tetrahydrobiopterin as a novel biomarker for abdominal aortic aneurysm. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H1559-H1564.	1.5	9
65	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, 509-518.	1.8	8
66	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.	1.3	7
67	Fueling Up Skeletal Muscle to Reduce Obesity: A TrkB Story. <i>Chemistry and Biology</i> , 2015, 22, 311-312.	6.2	5
68	More to Add to E-Cigarette Regulations. <i>Chest</i> , 2020, 157, 771-773.	0.4	5
69	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.	1.9	4
70	Novel and robust treatment of pulmonary hypertension with netrin-1 and netrin-1-derived small peptides. <i>Redox Biology</i> , 2022, 55, 102348.	3.9	4
71	Oxidase Interactions in Cardiovascular Disease. , 2014, , 849-876.		3
72	More to Explore: Further Definition of Risk Factors for COPD â€“ Differential Gender Difference, Modest Elevation in PM2.5, and e-Cigarette Use. <i>Frontiers in Physiology</i> , 2021, 12, 669152.	1.3	2

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73	ANO1 taking center stage: Blood pressure regulation in SHRs. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 82, 216-217.	0.9	0
74	Editorial commentary: Endothelial-to-mesenchymal transition: When the good one goes bad. <i>Trends in Cardiovascular Medicine</i> , 2017, 27, 394-396.	2.3	0
75	Abstract 380: Notch4 Uncouples Endothelial Nitric Oxide Synthase Leading to Arteriovenous Malformations. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, .	1.1	0
76	Novel Treatment of Hypertension by Specifically Targeting E2F for Restoration of Endothelial Dihydrofolate Reductase and eNOS Function Under Oxidative Stress. <i>FASEB Journal</i> , 2019, 33, 835.15.	0.2	0