

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.

91 papers	3,810 citations	37 h-index	59 g-index
94 ext. papers	4,407 ext. citations	6.1 avg, IF	5.31 L-index

#	Paper	IF	Citations
91	Reactive oxygen species and vascular biology: implications in human hypertension. <i>Hypertension Research</i> , <b>2011</b> , 34, 5-14	4.7	308
90	Oxidative stress and hypertension: current concepts. <i>Current Hypertension Reports</i> , <b>2010</b> , 12, 135-42	4.7	250
89	Adipocytes produce aldosterone through calcineurin-dependent signaling pathways: implications in diabetes mellitus-associated obesity and vascular dysfunction. <i>Hypertension</i> , <b>2012</b> , 59, 1069-78	8.5	232
88	Oxidative stress and human hypertension: vascular mechanisms, biomarkers, and novel therapies. <i>Canadian Journal of Cardiology</i> , <b>2015</b> , 31, 631-41	3.8	207
87	Reciprocal relationship between reactive oxygen species and cyclooxygenase-2 and vascular dysfunction in hypertension. <i>Antioxidants and Redox Signaling</i> , <b>2013</b> , 18, 51-65	8.4	115
86	Role of elastin in spontaneously hypertensive rat small mesenteric artery remodelling. <i>Journal of Physiology</i> , <b>2003</b> , 552, 185-95	3.9	98
85	Aerobic exercise reduces oxidative stress and improves vascular changes of small mesenteric and coronary arteries in hypertension. <i>British Journal of Pharmacology</i> , <b>2013</b> , 168, 686-703	8.6	93
84	Nitric oxide mediates aortic disease in mice deficient in the metalloprotease Adamts1 and in a mouse model of Marfan syndrome. <i>Nature Medicine</i> , <b>2017</b> , 23, 200-212	50.5	92
83	Atorvastatin prevents angiotensin II-induced vascular remodeling and oxidative stress. <i>Hypertension</i> , <b>2009</b> , 54, 142-9	8.5	91
82	NADPH oxidases and vascular remodeling in cardiovascular diseases. <i>Pharmacological Research</i> , <b>2016</b> , 114, 110-120	10.2	88
81	NOX isoforms and reactive oxygen species in vascular health. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , <b>2011</b> , 11, 27-35		87
80	Differential regulation of Nox1, Nox2 and Nox4 in vascular smooth muscle cells from WKY and SHR. <i>Journal of the American Society of Hypertension</i> , <b>2011</b> , 5, 137-53		75
79	Mechanisms involved in the cellular calcium homeostasis in vascular smooth muscle: calcium pumps. <i>Life Sciences</i> , <b>1999</b> , 64, 279-303	6.8	68
78	Hypertension increases the participation of vasoconstrictor prostanoids from cyclooxygenase-2 in phenylephrine responses. <i>Journal of Hypertension</i> , <b>2005</b> , 23, 767-77	1.9	68
77	New aspects of vascular remodelling: the involvement of all vascular cell types. <i>Experimental Physiology</i> , <b>2005</b> , 90, 469-75	2.4	65
76	The dietary flavonoid quercetin activates BKCa currents in coronary arteries via production of H <sub>2</sub> O <sub>2</sub> . Role in vasodilatation. <i>Cardiovascular Research</i> , <b>2007</b> , 73, 424-31	9.9	64
75	Role of extracellular matrix in vascular remodeling of hypertension. <i>Current Opinion in Nephrology and Hypertension</i> , <b>2010</b> , 19, 187-94	3.5	62

74	Increased superoxide anion production by interleukin-1 $\beta$ impairs nitric oxide-mediated relaxation in resistance arteries. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2006</b> , 316, 42-52	4.7	60
73	Losartan reduces the increased participation of cyclooxygenase-2-derived products in vascular responses of hypertensive rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2007</b> , 321, 381-8	4.7	60
72	New roles for old pathways? A circuitous relationship between reactive oxygen species and cyclo-oxygenase in hypertension. <i>Clinical Science</i> , <b>2014</b> , 126, 111-21	6.5	58
71	Lysyl Oxidase Induces Vascular Oxidative Stress and Contributes to Arterial Stiffness and Abnormal Elastin Structure in Hypertension: Role of p38MAPK. <i>Antioxidants and Redox Signaling</i> , <b>2017</b> , 27, 379-397	8.4	56
70	Adipocyte-derived factors regulate vascular smooth muscle cells through mineralocorticoid and glucocorticoid receptors. <i>Hypertension</i> , <b>2011</b> , 58, 479-88	8.5	56
69	Direct demonstration of beta1- and evidence against beta2- and beta3-adrenoceptors, in smooth muscle cells of rat small mesenteric arteries. <i>British Journal of Pharmacology</i> , <b>2005</b> , 146, 679-91	8.6	48
68	Alterations in structure and mechanics of resistance arteries from ouabain-induced hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2006</b> , 291, H193-201	5.2	44
67	Ouabain-induced hypertension is accompanied by increases in endothelial vasodilator factors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2002</b> , 283, H2110-8	5.2	44
66	Mercury induces proliferation and reduces cell size in vascular smooth muscle cells through MAPK, oxidative stress and cyclooxygenase-2 pathways. <i>Toxicology and Applied Pharmacology</i> , <b>2013</b> , 268, 188-200	4.6	43
65	Peroxisome proliferator-activated receptor- $\beta$ activation reduces cyclooxygenase-2 expression in vascular smooth muscle cells from hypertensive rats by interfering with oxidative stress. <i>Journal of Hypertension</i> , <b>2012</b> , 30, 315-26	1.9	43
64	Hypertension alters role of iNOS, COX-2, and oxidative stress in bradykinin relaxation impairment after LPS in rat cerebral arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2004</b> , 287, H225-34	5.2	43
63	Branched-chain amino acids promote endothelial dysfunction through increased reactive oxygen species generation and inflammation. <i>Journal of Cellular and Molecular Medicine</i> , <b>2018</b> , 22, 4948-4962	5.6	40
62	Exercise training and cardiometabolic diseases: focus on the vascular system. <i>Current Hypertension Reports</i> , <b>2013</b> , 15, 204-14	4.7	40
61	Heightened aberrant deposition of hard-wearing elastin in conduit arteries of prehypertensive SHR is associated with increased stiffness and inward remodeling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2008</b> , 295, H2299-307	5.2	40
60	Vascular proinflammatory responses by aldosterone are mediated via c-Src trafficking to cholesterol-rich microdomains: role of PDGFR. <i>Cardiovascular Research</i> , <b>2011</b> , 91, 720-31	9.9	39
59	Human vascular smooth muscle cells from diabetic patients are resistant to induced apoptosis due to high Bcl-2 expression. <i>Diabetes</i> , <b>2006</b> , 55, 1243-51	0.9	39
58	G Protein-Coupled Receptor Kinase 2 (GRK2) as a Potential Therapeutic Target in Cardiovascular and Metabolic Diseases. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 112	5.6	37
57	Increased nitric oxide bioavailability in adult GRK2 hemizygous mice protects against angiotensin II-induced hypertension. <i>Hypertension</i> , <b>2014</b> , 63, 369-75	8.5	37

56	Apocynin prevents vascular effects caused by chronic exposure to low concentrations of mercury. <i>PLoS ONE</i> , <b>2013</b> , 8, e55806	3.7	37
55	Influence of elastin on rat small artery mechanical properties. <i>Experimental Physiology</i> , <b>2005</b> , 90, 463-8	2.4	37
54	Influence of hypertension on nitric oxide synthase expression and vascular effects of lipopolysaccharide in rat mesenteric arteries. <i>British Journal of Pharmacology</i> , <b>2000</b> , 131, 185-94	8.6	37
53	Postnatal alterations in elastic fiber organization precede resistance artery narrowing in SHR. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2006</b> , 291, H804-12	5.2	35
52	Oxidative Stress in Human Atherothrombosis: Sources, Markers and Therapeutic Targets. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	34
51	Carnitine palmitoyltransferase-1 up-regulation by PPAR- $\gamma$ prevents lipid-induced endothelial dysfunction. <i>Clinical Science</i> , <b>2015</b> , 129, 823-37	6.5	33
50	Transient middle cerebral artery occlusion causes different structural, mechanical, and myogenic alterations in normotensive and hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2007</b> , 293, H628-35	5.2	33
49	Mechanisms underlying hypertrophic remodeling and increased stiffness of mesenteric resistance arteries from aged rats. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2007</b> , 62, 696-706	6.4	30
48	p38 MAPK contributes to angiotensin II-induced COX-2 expression in aortic fibroblasts from normotensive and hypertensive rats. <i>Journal of Hypertension</i> , <b>2009</b> , 27, 142-54	1.9	28
47	c-Src, ERK1/2 and Rho kinase mediate hydrogen peroxide-induced vascular contraction in hypertension: role of TXA2, NAD(P)H oxidase and mitochondria. <i>Journal of Hypertension</i> , <b>2015</b> , 33, 77-87 <sup>1.9</sup>	1.9	27
46	G protein-coupled receptor kinase 2 (GRK2) as an integrative signalling node in the regulation of cardiovascular function and metabolic homeostasis. <i>Cellular Signalling</i> , <b>2018</b> , 41, 25-32	4.9	27
45	Wilms Tumor 1b Expression Defines a Pro-regenerative Macrophage Subtype and Is Required for Organ Regeneration in the Zebrafish. <i>Cell Reports</i> , <b>2019</b> , 28, 1296-1306.e6	10.6	27
44	Differential renal effects of candesartan at high and ultra-high doses in diabetic mice-potential role of the ACE2/AT2R/Mas axis. <i>Bioscience Reports</i> , <b>2016</b> , 36,	4.1	26
43	Vascular smooth muscle cell-specific progerin expression in a mouse model of Hutchinson-Gilford progeria syndrome promotes arterial stiffness: Therapeutic effect of dietary nitrite. <i>Aging Cell</i> , <b>2019</b> , 18, e12936	9.9	25
42	Mechanisms involved in the early increase of serotonin contraction evoked by endotoxin in rat middle cerebral arteries. <i>British Journal of Pharmacology</i> , <b>2003</b> , 140, 671-80	8.6	25
41	Alterations of the nitric oxide pathway in cerebral arteries from spontaneously hypertensive rats. <i>Journal of Cardiovascular Pharmacology</i> , <b>2002</b> , 39, 378-88	3.1	25
40	Ageing alters the production of nitric oxide and prostanoids after IL-1 $\beta$ exposure in mesenteric resistance arteries. <i>Mechanisms of Ageing and Development</i> , <b>2005</b> , 126, 710-21	5.6	24
39	Vascular dysfunction in obese diabetic db/db mice involves the interplay between aldosterone/mineralocorticoid receptor and Rho kinase signaling. <i>Scientific Reports</i> , <b>2018</b> , 8, 2952	4.9	23

38	Aging-Associated miR-217 Aggravates Atherosclerosis and Promotes Cardiovascular Dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2020</b> , 40, 2408-2424	9.4	22
37	Pioglitazone treatment increases COX-2-derived prostacyclin production and reduces oxidative stress in hypertensive rats: role in vascular function. <i>British Journal of Pharmacology</i> , <b>2012</b> , 166, 1303-19	8.6	21
36	Liver growth factor treatment restores cell-extracellular matrix balance in resistance arteries and improves left ventricular hypertrophy in SHR. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2011</b> , 301, H1153-65	5.2	21
35	Hypertension alters the participation of contractile prostanoids and superoxide anions in lipopolysaccharide effects on small mesenteric arteries. <i>Life Sciences</i> , <b>2002</b> , 71, 1997-2014	6.8	21
34	Role of iNOS in the vasodilator responses induced by L-arginine in the middle cerebral artery from normotensive and hypertensive rats. <i>British Journal of Pharmacology</i> , <b>1999</b> , 126, 111-20	8.6	20
33	mPGES-1 (Microsomal Prostaglandin E Synthase-1) Mediates Vascular Dysfunction in Hypertension Through Oxidative Stress. <i>Hypertension</i> , <b>2018</b> , 72, 492-502	8.5	19
32	Interleukin-33/ST2 system attenuates aldosterone-induced adipogenesis and inflammation. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 411, 20-7	4.4	18
31	Small artery remodeling in obesity and insulin resistance. <i>Current Vascular Pharmacology</i> , <b>2014</b> , 12, 427-37	3.3	18
30	Interleukin-17A induces vascular remodeling of small arteries and blood pressure elevation. <i>Clinical Science</i> , <b>2020</b> , 134, 513-527	6.5	17
29	Hu antigen R is required for NOX-1 but not NOX-4 regulation by inflammatory stimuli in vascular smooth muscle cells. <i>Journal of Hypertension</i> , <b>2016</b> , 34, 253-65	1.9	17
28	Emerging Roles of Lysyl Oxidases in the Cardiovascular System: New Concepts and Therapeutic Challenges. <i>Biomolecules</i> , <b>2019</b> , 9,	5.9	16
27	Activation of BKCa channels by nitric oxide prevents coronary artery endothelial dysfunction in ouabain-induced hypertensive rats. <i>Journal of Hypertension</i> , <b>2009</b> , 27, 83-91	1.9	15
26	Alterations by age of calcium handling in rat resistance arteries. <i>Journal of Cardiovascular Pharmacology</i> , <b>2002</b> , 40, 832-40	3.1	14
25	Nitric oxide synthase induction by ouabain in vascular smooth muscle cells from normotensive and hypertensive rats. <i>Journal of Hypertension</i> , <b>2000</b> , 18, 877-84	1.9	13
24	Moderate exercise decreases inflammation and oxidative stress in hypertension: but what are the mechanisms?. <i>Hypertension</i> , <b>2009</b> , 54, 1206-8	8.5	12
23	Changes in plasma oxidative state with age and their influence on contractions elicited by noradrenaline in the rat tail artery. <i>Life Sciences</i> , <b>1999</b> , 65, 915-24	6.8	12
22	Pioglitazone Modulates the Vascular Contractility in Hypertension by Interference with ET-1 Pathway. <i>Scientific Reports</i> , <b>2019</b> , 9, 16461	4.9	11
21	Extracellular Tuning of Mitochondrial Respiration Leads to Aortic Aneurysm. <i>Circulation</i> , <b>2021</b> , 143, 2091-109	8.1	11

20	Losartan and tempol treatments normalize the increased response to hydrogen peroxide in resistance arteries from hypertensive rats. <i>Journal of Hypertension</i> , <b>2009</b> , 27, 1814-22	1.9	10
19	Cerebrovascular endothelial dysfunction induced by mercury exposure at low concentrations. <i>NeuroToxicology</i> , <b>2016</b> , 53, 282-289	4.4	10
18	Activation of PPAR $\gamma$ prevents hyperglycaemia-induced impairment of Kv7 channels and cAMP-mediated relaxation in rat coronary arteries. <i>Clinical Science</i> , <b>2016</b> , 130, 1823-36	6.5	9
17	Molecular physiopathology of obesity-related diseases: multi-organ integration by GRK2. <i>Archives of Physiology and Biochemistry</i> , <b>2015</b> , 121, 163-77	2.2	9
16	Ouabain treatment increases nitric oxide bioavailability and decreases superoxide anion production in cerebral vessels. <i>Journal of Hypertension</i> , <b>2008</b> , 26, 1944-54	1.9	9
15	Regulator of calcineurin 1 modulates vascular contractility and stiffness through the upregulation of COX-2-derived prostanoids. <i>Pharmacological Research</i> , <b>2018</b> , 133, 236-249	10.2	8
14	Periarterial fat from two human vascular beds is not a source of aldosterone to promote vasoconstriction. <i>American Journal of Physiology - Renal Physiology</i> , <b>2018</b> , 315, F1670-F1682	4.3	8
13	High NOR-1 (Neuron-Derived Orphan Receptor 1) Expression Strengthens the Vascular Wall Response to Angiotensin II Leading to Aneurysm Formation in Mice. <i>Hypertension</i> , <b>2021</b> , 77, 557-570	8.5	4
12	Isolation of Mature Adipocytes from White Adipose Tissue and Gene Expression Studies by Real-Time Quantitative RT-PCR. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1527, 283-295	1.4	3
11	Aldosterone/MR Signaling, Oxidative Stress, and Vascular Dysfunction <b>2019</b> ,		3
10	Vascular lysyl oxidase over-expression alters extracellular matrix structure and induces oxidative stress. <i>Clínica E Investigación En Arteriosclerosis</i> , <b>2017</b> , 29, 157-165	1.4	3
9	Temporal relationship between systemic endothelial dysfunction and alterations in erythrocyte function in a murine model of chronic heart failure. <i>Cardiovascular Research</i> , <b>2021</b> ,	9.9	3
8	CCN2 (Cellular Communication Network Factor 2) Deletion Alters Vascular Integrity and Function Predisposing to Aneurysm Formation.. <i>Hypertension</i> , <b>2022</b> , 79, e42-e55	8.5	2
7	Myeloid GRK2 Regulates Obesity-Induced Endothelial Dysfunction by Modulating Inflammatory Responses in Perivascular Adipose Tissue. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	2
6	Characterization of Novel Synthetic Polyphenols: Validation of Antioxidant and Vasculoprotective Activities. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	2
5	Confocal microscopic image sequence compression using vector quantization and three-dimensional pyramid. <i>Scanning</i> , <b>2003</b> , 25, 247-56	1.6	1
4	Vascular lysyl oxidase over-expression alters extracellular matrix structure and induces oxidative stress. <i>Clínica E Investigación En Arteriosclerosis (English Edition)</i> , <b>2017</b> , 29, 157-165	0.3	0
3	K 1.3 channels are novel determinants of macrophage-dependent endothelial dysfunction in angiotensin II-induced hypertension in mice. <i>British Journal of Pharmacology</i> , <b>2021</b> , 178, 1836-1854	8.6	0

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1 Report on the 24th meeting of the ECCR 8th-9th October 2021. *Clinical Science*, **2021**, 135, 1