Augusto C Montezano

List of Publications by Year
in descending order

111 papers	7,771 citations	53660 45 h-index	53109 85 g-index
111 all docs	111 docs citations	111 times ranked	10839 citing authors

#	Article	IF	Citations
1	Vascular smooth muscle contraction in hypertension. Cardiovascular Research, 2018, 114, 529-539.	1.8	393
2	Angiotensin II, NADPH Oxidase, and Redox Signaling in the Vasculature. Antioxidants and Redox Signaling, 2013, 19, 1110-1120.	2.5	350
3	NADPH Oxidase 1 Plays a Key Role in Diabetes Mellitusâ€"Accelerated Atherosclerosis. Circulation, 2013, 127, 1888-1902.	1.6	325
4	Angiotensin II and Vascular Injury. Current Hypertension Reports, 2014, 16, 431.	1.5	308
5	Microparticles: biomarkers and beyond. Clinical Science, 2013, 124, 423-441.	1.8	299
6	Vascular Fibrosis in Aging and Hypertension: Molecular Mechanisms and Clinical Implications. Canadian Journal of Cardiology, 2016, 32, 659-668.	0.8	298
7	Oxidative Stress and Human Hypertension: Vascular Mechanisms, Biomarkers, and Novel Therapies. Canadian Journal of Cardiology, 2015, 31, 631-641.	0.8	257
8	Reactive Oxygen Species and Endothelial Function â€" Role of Nitric Oxide Synthase Uncoupling and Nox Family Nicotinamide Adenine Dinucleotide Phosphate Oxidases. Basic and Clinical Pharmacology and Toxicology, 2012, 110, 87-94.	1.2	242
9	Vascular biology of ageingâ€"Implications in hypertension. Journal of Molecular and Cellular Cardiology, 2015, 83, 112-121.	0.9	237
10	Reactive Oxygen Species, Vascular Noxs, and Hypertension: Focus on Translational and Clinical Research. Antioxidants and Redox Signaling, 2014, 20, 164-182.	2.5	222
11	Molecular Mechanisms of Hypertensionâ€"Reactive Oxygen Species and Antioxidants: A Basic Science Update for the Clinician. Canadian Journal of Cardiology, 2012, 28, 288-295.	0.8	199
12	Vascular Smooth Muscle Cell Differentiation to an Osteogenic Phenotype Involves TRPM7 Modulation by Magnesium. Hypertension, 2010, 56, 453-462.	1.3	192
13	Endothelial Microparticle Formation by Angiotensin II Is Mediated via Ang II Receptor Type I/NADPH Oxidase/ Rho Kinase Pathways Targeted to Lipid Rafts. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1898-1907.	1.1	192
14	Oxidative Stress and Hypertension. Circulation Research, 2021, 128, 993-1020.	2.0	188
15	Nicotinamide Adenine Dinucleotide Phosphate Reduced Oxidase 5 (Nox5) Regulation by Angiotensin II and Endothelin-1 Is Mediated via Calcium/Calmodulin-Dependent, Rac-1-Independent Pathways in Human Endothelial Cells. Circulation Research, 2010, 106, 1363-1373.	2.0	167
16	Oxidative stress, Noxs, and hypertension: Experimental evidence and clinical controversies. Annals of Medicine, 2012, 44, S2-S16.	1.5	154
17	Angiotensin II and the vascular phenotype in hypertension. Expert Reviews in Molecular Medicine, 2011, 13, e11.	1.6	152
18	Systemic microvascular dysfunction in microvascular and vasospastic angina. European Heart Journal, 2018, 39, 4086-4097.	1.0	139

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19	Oxidative Stress: A Unifying Paradigm in Hypertension. Canadian Journal of Cardiology, 2020, 36, 659-670.	0.8	138
20	Hypertension Due to Antiangiogenic Cancer Therapy With Vascular Endothelial Growth Factor Inhibitors: Understanding and Managing a New Syndrome. Canadian Journal of Cardiology, 2014, 30, 534-543.	0.8	110
21	Nephropathy and Elevated BP in Mice with Podocyte-Specific NADPH Oxidase 5 Expression. Journal of the American Society of Nephrology: JASN, 2014, 25, 784-797.	3.0	109
22	Downregulation of Nuclear Factor Erythroid 2â€"Related Factor and Associated Antioxidant Genes Contributes to Redox-Sensitive Vascular Dysfunction in Hypertension. Hypertension, 2015, 66, 1240-1250.	1.3	109
23	Oxidative Stress, Nox Isoforms and Complications of Diabetesâ€"Potential Targets for Novel Therapies. Journal of Cardiovascular Translational Research, 2012, 5, 509-518.	1.1	104
24	Novel Nox homologues in the vasculature: focusing on Nox4 and Nox5. Clinical Science, 2011, 120, 131-141.	1.8	99
25	TRPM7, Magnesium, and Signaling. International Journal of Molecular Sciences, 2019, 20, 1877.	1.8	99
26	Genomic and non-genomic effects of androgens in the cardiovascular system: clinical implications. Clinical Science, 2017, 131, 1405-1418.	1.8	91
27	Chemerin Regulates Crosstalk Between Adipocytes and Vascular Cells Through Nox. Hypertension, 2015, 66, 657-666.	1.3	90
28	Vascular Nox (NADPH Oxidase) Compartmentalization, Protein Hyperoxidation, and Endoplasmic Reticulum Stress Response in Hypertension. Hypertension, 2018, 72, 235-246.	1.3	88
29	Microparticles Induce Cell Cycle Arrest Through Redoxâ€Sensitive Processes in Endothelial Cells: Implications in Vascular Senescence. Journal of the American Heart Association, 2012, 1, e001842.	1.6	87
30	Differential regulation of Nox1, Nox2 and Nox4 in vascular smooth muscle cells from WKY and SHR. Journal of the American Society of Hypertension, 2011, 5, 137-153.	2.3	83
31	Chanzyme TRPM7 protects against cardiovascular inflammation and fibrosis. Cardiovascular Research, 2020, 116, 721-735.	1.8	78
32	Redox signaling, Nox5 and vascular remodeling in hypertension. Current Opinion in Nephrology and Hypertension, 2015, 24, 425-433.	1.0	75
33	Assessment and pathophysiology of microvascular disease: recent progress and clinical implications. European Heart Journal, 2021, 42, 2590-2604.	1.0	74
34	VEGFR (Vascular Endothelial Growth Factor Receptor) Inhibition Induces Cardiovascular Damage via Redox-Sensitive Processes. Hypertension, 2018, 71, 638-647.	1.3	73
35	NOX5: Molecular biology and pathophysiology. Experimental Physiology, 2019, 104, 605-616.	0.9	72
36	Regulation of the novel Mg2+ transporter transient receptor potential melastatin 7 (TRPM7) cation channel by bradykinin in vascular smooth muscle cells. Journal of Hypertension, 2009, 27, 155-166.	0.3	65

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37	Notch3 signalling and vascular remodelling in pulmonary arterial hypertension. Clinical Science, 2019, 133, 2481-2498.	1.8	65
38	Endothelin, sex and hypertension. Clinical Science, 2008, 114, 85-97.	1.8	64
39	Vascular Biology of Superoxide-Generating NADPH Oxidase 5â€"Implications in Hypertension and Cardiovascular Disease. Antioxidants and Redox Signaling, 2019, 30, 1027-1040.	2.5	63
40	Nicotinamide Adenine Dinucleotide Phosphate Oxidaseâ€"Mediated Redox Signaling and Vascular Remodeling by 16Î±-Hydroxyestrone in Human Pulmonary Artery Cells. Hypertension, 2016, 68, 796-808.	1.3	62
41	Vascular Nox4. Circulation Research, 2012, 110, 1159-1161.	2.0	61
42	Tissue sodium excess is not hypertonic and reflects extracellular volume expansion. Nature Communications, 2020, 11, 4222.	5.8	61
43	ET A Receptor Mediates Altered Leukocyte-Endothelial Cell Interaction and Adhesion Molecules Expression in DOCAâ€"Salt Rats. Hypertension, 2004, 43, 872-879.	1.3	53
44	Serotonin Signaling Through the 5-HT _{1B} Receptor and NADPH Oxidase 1 in Pulmonary Arterial Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1361-1370.	1.1	51
45	NADPH Oxidase 5 Is a Proâ€Contractile Nox Isoform and a Point of Crossâ€Talk for Calcium and Redox Signalingâ€Implications in Vascular Function. Journal of the American Heart Association, 2018, 7, .	1.6	51
46	Isolation and Differentiation of Murine Macrophages. Methods in Molecular Biology, 2017, 1527, 297-309.	0.4	50
47	Adipocyte-Specific Mineralocorticoid Receptor Overexpression in Mice Is Associated With Metabolic Syndrome and Vascular Dysfunction: Role of Redox-Sensitive PKG-1 and Rho Kinase. Diabetes, 2016, 65, 2392-2403.	0.3	46
48	Vascular dysfunction and fibrosis in stroke-prone spontaneously hypertensive rats: The aldosterone-mineralocorticoid receptor-Nox1 axis. Life Sciences, 2017, 179, 110-119.	2.0	46
49	Brown Adipose Tissue Regulates Small Artery Function Through NADPH Oxidase 4â€"Derived Hydrogen Peroxide and Redox-Sensitive Protein Kinase G-1Î±. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 455-465.	1.1	43
50	Angiotensin-(1â€"7) and Vascular Function. Hypertension, 2018, 71, 68-69.	1.3	42
51	Ca ²⁺ -Dependent NOX5 (NADPH Oxidase 5) Exaggerates Cardiac Hypertrophy Through Reactive Oxygen Species Production. Hypertension, 2020, 76, 827-838.	1.3	42
52	Vascular injury in diabetic db/db mice is ameliorated by atorvastatin: role of Rac1/2-sensitive Nox-dependent pathways. Clinical Science, 2015, 128, 411-423.	1.8	41
53	Vascular signaling through cholesterol-rich domains: implications in hypertension. Current Opinion in Nephrology and Hypertension, 2007, 16, 90-104.	1.0	40
54	Temporal changes in cardiac oxidative stress, inflammation and remodeling induced by exercise in hypertension: Role for local angiotensin II reduction. PLoS ONE, 2017, 12, e0189535.	1.1	39

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55	Mineralocorticoid receptor blockade prevents vascular remodelling in a rodent model of typeÂ2 diabetes mellitus. Clinical Science, 2015, 129, 533-545.	1.8	36
56	Crosstalk Between Vascular Redox and Calcium Signaling in Hypertension Involves TRPM2 (Transient) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.3	35
57	Vascular toxicity associated with anti-angiogenic drugs. Clinical Science, 2020, 134, 2503-2520.	1.8	33
58	Differential renal effects of candesartan at high and ultra-high doses in diabetic miceâ€"potential role of the ACE2/AT2R/Mas axis. Bioscience Reports, 2016, 36, .	1.1	32
59	Vascular dysfunction in obese diabetic db/db mice involves the interplay between aldosterone/mineralocorticoid receptor and Rho kinase signaling. Scientific Reports, 2018, 8, 2952.	1.6	32
60	Microparticles from vascular endothelial growth factor pathway inhibitor-treated cancer patients mediate endothelial cell injury. Cardiovascular Research, 2019, 115, 978-988.	1.8	32
61	ACE2/Ang-(1-7)/Mas1 axis and the vascular system: vasoprotection to COVID-19-associated vascular disease. Clinical Science, 2021, 135, 387-407.	1.8	32
62	ER stress and Rho kinase activation underlie the vasculopathy of CADASIL. JCI Insight, 2019, 4, .	2.3	31
63	PARK7/DJ-1 dysregulation by oxidative stress leads to magnesium deficiency: implications in degenerative and chronic diseases. Clinical Science, 2015, 129, 1143-1150.	1.8	30
64	Internal Pudental Artery Dysfunction in Diabetes Mellitus Is Mediated by NOX1-Derived ROS-, Nrf2-, and Rho Kinaseâ€"Dependent Mechanisms. Hypertension, 2016, 68, 1056-1064.	1.3	30
65	Adventitia-Derived Hydrogen Peroxide Impairs Relaxation of the Rat Carotid Artery <i>via</i> Smooth Muscle Cell p38 Mitogen-Activated Protein Kinase. Antioxidants and Redox Signaling, 2011, 15, 1507-1515.	2.5	28
66	Sex steroids receptors, hypertension, and vascular ageing. Journal of Human Hypertension, 2022, 36, 120-125.	1.0	28
67	c-Src Inhibition Improves Cardiovascular Function but not Remodeling or Fibrosis in Angiotensin IIâ€"Induced Hypertension. Hypertension, 2016, 68, 1179-1190.	1.3	27
68	High sodium intake, glomerular hyperfiltration, and protein catabolism in patients with essential hypertension. Cardiovascular Research, 2021, 117, 1372-1381.	1.8	27
69	Central role of c-Src in NOX5- mediated redox signalling in vascular smooth muscle cells in human hypertension. Cardiovascular Research, 2022, 118, 1359-1373.	1.8	26
70	Increased inflammatory biomarkers in hypertensive type 2 diabetic patients: improvement after angiotensin II type 1 receptor blockade. Journal of the American Society of Hypertension, 2007, 1, 189-199.	2.3	25
71	Activation of vascular p38MAPK by mechanical stretch is independent of c-Src and NADPH oxidase: influence of hypertension and angiotensin II. Journal of the American Society of Hypertension, 2012, 6, 169-178.	2.3	25
72	Atorvastatin inhibits pro-inflammatory actions of aldosterone in vascular smooth muscle cells by reducing oxidative stress. Life Sciences, 2019, 221, 29-34.	2.0	25

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73	Selective ETA vs. dual ETA/B receptor blockade for the prevention of sunitinib-induced hypertension and albuminuria in WKY rats. Cardiovascular Research, 2020, 116, 1779-1790.	1.8	25
74	Local endothelial DNA repair deficiency causes aging-resembling endothelial-specific dysfunction. Clinical Science, 2020, 134, 727-746.	1.8	25
75	Isolation and Differentiation of Human Macrophages. Methods in Molecular Biology, 2017, 1527, 311-320.	0.4	22
76	Comprehensive Characterization of the Vascular Effects of Cisplatin-Based Chemotherapy in Patients With TesticularÂCancer. JACC: CardioOncology, 2020, 2, 443-455.	1.7	20
77	Cholesteryl Ester-Transfer Protein Inhibitors Stimulate Aldosterone Biosynthesis in Adipocytes through Nox-Dependent Processes. Journal of Pharmacology and Experimental Therapeutics, 2015, 353, 27-34.	1.3	19
78	Isolation and Culture of Vascular Smooth Muscle Cells from Small and Large Vessels. Methods in Molecular Biology, 2017, 1527, 349-354.	0.4	19
79	Cardiovascular and Renal Risk Factors and Complications Associated With COVID-19. CJC Open, 2021, 3, 1257-1272.	0.7	18
80	Lysophosphatidylcholine induces oxidative stress in human endothelial cells via NOX5 activation â€" implications in atherosclerosis. Clinical Science, 2021, 135, 1845-1858.	1.8	18
81	Interferon-stimulated gene 15 pathway is a novel mediator of endothelial dysfunction and aneurysms development in angiotensin II infused mice through increased oxidative stress. Cardiovascular Research, 2022, 118, 3250-3268.	1.8	18
82	Novel Biosensors Reveal a Shift in the Redox Paradigm From Oxidative to Reductive Stress in Heart Disease. Circulation Research, 2016, 119, 969-971.	2.0	17
83	Vascular dysfunction and increased cardiovascular risk in hypospadias. European Heart Journal, 2022, 43, 1832-1845.	1.0	16
84	Epidermal growth factor signaling through transient receptor potential melastatin 7 cation channel regulates vascular smooth muscle cell function. Clinical Science, 2020, 134, 2019-2035.	1.8	15
85	Inhibitory effects of PPAR-Î³ on endothelin-1-induced inflammatory pathways in vascular smooth muscle cells from normotensive and hypertensive rats. Journal of the American Society of Hypertension, 2007, 1, 150-160.	2.3	14
86	Redox Stress Defines the Small Artery Vasculopathy of Hypertension. Circulation Research, 2017, 120, 1721-1723.	2.0	14
87	Importance of cholesterol-rich microdomains in the regulation of Nox isoforms and redox signaling in human vascular smooth muscle cells. Scientific Reports, 2020, 10, 17818.	1.6	14
88	Peripheral arteriopathy caused by Notch3 gain-of-function mutation involves ER and oxidative stress and blunting of NO/sGC/cGMP pathway. Clinical Science, 2021, 135, 753-773.	1.8	12
89	Exosomes and the cardiovascular system: role in cardiovascular health and disease. Journal of Physiology, 2023, 601, 4923-4936.	1.3	12
90	Isolation and Culture of Endothelial Cells from Large Vessels. Methods in Molecular Biology, 2017, 1527, 345-348.	0.4	11

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91	Off-Target Vascular Effects of Cholesteryl Ester Transfer Protein Inhibitors Involve Redox-Sensitive and Signal Transducer and Activator of Transcription 3-Dependent Pathways. Journal of Pharmacology and Experimental Therapeutics, 2016, 357, 415-422.	1.3	9
92	Selective Inhibition of the C-Domain of ACE (Angiotensin-Converting Enzyme) Combined With Inhibition of NEP (Neprilysin): A Potential New Therapy for Hypertension. Hypertension, 2021, 78, 604-616.	1.3	7
93	Biomarkers of Oxidative Stress in Human Hypertension. , 2016, , 151-170.		6
94	Differential effects of cyclo-oxygenase 1 and 2 inhibition on angiogenesis inhibitor-induced hypertension and kidney damage. Clinical Science, 2022, 136, 675-694.	1.8	6
95	Progenitor Cells, Bone Marrowâ€“Derived Fibrocytes and Endothelial-to-Mesenchymal Transition. Hypertension, 2016, 67, 272-274.	1.3	5
96	Lessons Learned From RAG-1-Deficient Mice in Hypertension. Hypertension, 2020, 75, 935-937.	1.3	4
97	Osteoprotegerin regulates vascular function through syndecan-1 and NADPH oxidase-derived reactive oxygen species. Clinical Science, 2021, 135, 2429-2444.	1.8	4
98	Mammalian Target of Rapamycin: A Novel Pathway in Vascular Calcification. Canadian Journal of Cardiology, 2014, 30, 482-484.	0.8	3
99	Reactive Oxygen Species and the Cardiovascular System. Colloquium Series on Integrated Systems Physiology From Molecule To Function, 2012, 4, 1-102.	0.3	2
100	Mas Signaling. , 2015, , 169-179.		1
101	Microparticles and Exosomes in Cell-Cell Communication. , 2019, , 159-168.		1
102	Reactive Oxygen Species, Vascular Disease, and Hypertension. , 2014, , 1123-1154.		1
103	Peptides derived from the SARS-CoV-2 receptor binding motif bind to ACE2 but do not block ACE2-mediated host cell entry or pro-inflammatory cytokine induction. PLoS ONE, 2021, 16, e0260283.	1.1	1
104	18 MICROPARTICLES INDUCE ENDOTHELIAL CELL SENESCENCE AND CELL CYCLE ARREST THROUGH REDOX-SENSITIVE PROCESSES. Journal of Hypertension, 2012, 30, e6.	0.3	0
105	Vascular Function. , 2013, , 45-65.		0
106	Hypertensive Vasculopathy. , 2014, , 1-28.		0
107	3â€…Angiotensin 1â€"7 regulation of endothelin-1 system in pulmonary hypertension. Heart, 2015, 101, A1.3-A1.	1.2	0
108	Hypertensive Vasculopathy. , 2015, , 1595-1618.		0

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109	OP10â€…Skin Na⁺ excess in hypertensive patients: isotonic nature and clinical correlates. , 2020, , .		0
110	Arterial Hypertension. , 2022, , .		0
111	The vascular phenotype in hypertension. , 2022, , 327-342.		0