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List of Publications by Year
in descending order

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48 papers	3,999 citations	236612 25 h-index	214527 47 g-index
48 all docs	48 docs citations	48 times ranked	5972 citing authors

#	Article	IF	Citations
1	Vascular Inflammation and Oxidative Stress: Major Triggers for Cardiovascular Disease. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-26.	1.9	388
2	Targeting vascular (endothelial) dysfunction. British Journal of Pharmacology, 2017, 174, 1591-1619.	2.7	355
3	Environmental Noise and the Cardiovascular System. Journal of the American College of Cardiology, 2018, 71, 688-697.	1.2	278
4	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). Redox Biology, 2017, 13, 94-162.	3.9	242
5	The Sodium-Glucose Co-Transporter 2 Inhibitor Empagliflozin Improves Diabetes-Induced Vascular Dysfunction in the Streptozotocin Diabetes Rat Model by Interfering with Oxidative Stress and Glucotoxicity. PLoS ONE, 2014, 9, e112394.	1.1	222
6	The SGLT2 inhibitor empagliflozin improves the primary diabetic complications in ZDF rats. Redox Biology, 2017, 13, 370-385.	3.9	208
7	Molecular Mechanisms of the Crosstalk Between Mitochondria and NADPH Oxidase Through Reactive Oxygen Speciesâ€"Studies in White Blood Cells and in Animal Models. Antioxidants and Redox Signaling, 2014, 20, 247-266.	2.5	203
8	Crosstalk of mitochondria with NADPH oxidase via reactive oxygen and nitrogen species signalling and its role for vascular function. British Journal of Pharmacology, 2017, 174, 1670-1689.	2.7	203
9	Effects of noise on vascular function, oxidative stress, and inflammation: mechanistic insight from studies in mice. European Heart Journal, 2017, 38, 2838-2849.	1.0	176
10	Conversion of biliverdin to bilirubin by biliverdin reductase contributes to endothelial cell protection by heme oxygenase-1â€"evidence for direct and indirect antioxidant actions of bilirubin. Journal of Molecular and Cellular Cardiology, 2010, 49, 186-195.	0.9	148
11	Crucial role for Nox2 and sleep deprivation in aircraft noise-induced vascular and cerebral oxidative stress, inflammation, and gene regulation. European Heart Journal, 2018, 39, 3528-3539.	1.0	147
12	Short-term e-cigarette vapour exposure causes vascular oxidative stress and dysfunction: evidence for a close connection to brain damage and a key role of the phagocytic NADPH oxidase (NOX-2). European Heart Journal, 2020, 41, 2472-2483.	1.0	139
13	Adverse Cardiovascular Effects of Traffic Noise with a Focus on Nighttime Noise and the New WHO Noise Guidelines. Annual Review of Public Health, 2020, 41, 309-328.	7.6	117
14	Glutathione Peroxidase-1 Deficiency Potentiates Dysregulatory Modifications of Endothelial Nitric Oxide Synthase and Vascular Dysfunction in Aging. Hypertension, 2014, 63, 390-396.	1.3	116
15	Endothelial GLP-1 (Glucagon-Like Peptide-1) Receptor Mediates Cardiovascular Protection by Liraglutide In Mice With Experimental Arterial Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 145-158.	1.1	116
16	Inflammatory Monocytes Determine Endothelial Nitric-oxide Synthase Uncoupling and Nitro-oxidative Stress Induced by Angiotensin II. Journal of Biological Chemistry, 2014, 289, 27540-27550.	1.6	96
17	Vascular Dysfunction in Experimental Diabetes Is Improved by Pentaerithrityl Tetranitrate but Not Isosorbide-5-Mononitrate Therapy. Diabetes, 2011, 60, 2608-2616.	0.3	86
18	Gliptin and GLPâ€1 analog treatment improves survival and vascular inflammation/dysfunction in animals with lipopolysaccharideâ€induced endotoxemia. Basic Research in Cardiology, 2015, 110, 6.	2.5	84

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19	Environmental noise induces the release of stress hormones and inflammatory signaling molecules leading to oxidative stress and vascular dysfunctionâ€"Signatures of the internal exposome. BioFactors, 2019, 45, 495-506.	2.6	82
20	Glucagonâ€like peptideâ€1 receptor signalling reduces microvascular thrombosis, nitroâ€oxidative stress and platelet activation in endotoxaemic mice. British Journal of Pharmacology, 2017, 174, 1620-1632.	2.7	66
21	Oxidative stress and inflammation contribute to traffic noise-induced vascular and cerebral dysfunction via uncoupling of nitric oxide synthases. Redox Biology, 2020, 34, 101506.	3.9	63
22	Taking up the cudgels for the traditional reactive oxygen and nitrogen species detection assays and their use in the cardiovascular system. Redox Biology, 2017, 12, 35-49.	3.9	52
23	Exacerbation of adverse cardiovascular effects of aircraft noise in an animal model of arterial hypertension. Redox Biology, 2020, 34, 101515.	3.9	36
24	Glucagonâ€like peptideâ€1 (GLPâ€1) receptor agonists and their cardiovascular benefitsâ€"The role of the GLPâ€1 receptor. British Journal of Pharmacology, 2022, 179, 659-676.	2.7	28
25	Protective actions of nuclear factor erythroid 2-related factor 2 (NRF2) and downstream pathways against environmental stressors. Free Radical Biology and Medicine, 2022, 187, 72-91.	1.3	28
26	Time Response of Oxidative/Nitrosative Stress and Inflammation in LPS-Induced Endotoxaemiaâ€"A Comparative Study of Mice and Rats. International Journal of Molecular Sciences, 2017, 18, 2176.	1.8	27
27	Regulation of Vascular Function and Inflammation via Cross Talk of Reactive Oxygen and Nitrogen Species from Mitochondria or NADPH Oxidaseâ€"Implications for Diabetes Progression. International Journal of Molecular Sciences, 2020, 21, 3405.	1.8	27
28	Cerebral consequences of environmental noise exposure. Environment International, 2022, 165, 107306.	4.8	26
29	Comparison of Mitochondrial Superoxide Detection Ex Vivo/In Vivo by mitoSOX HPLC Method with Classical Assays in Three Different Animal Models of Oxidative Stress. Antioxidants, 2019, 8, 514.	2.2	23
30	Ablation of lysozyme M-positive cells prevents aircraft noise-induced vascular damage without improving cerebral side effects. Basic Research in Cardiology, 2021, 116, 31.	2.5	23
31	Î±1AMPK deletion in myelomonocytic cells induces a pro-inflammatory phenotype and enhances angiotensin II-induced vascular dysfunction. Cardiovascular Research, 2018, 114, 1883-1893.	1.8	22
32	Angiotensin II Induces Oxidative Stress and Endothelial Dysfunction in Mouse Ophthalmic Arteries via Involvement of AT1 Receptors and NOX2. Antioxidants, 2021, 10, 1238.	2.2	21
33	GLP-1 Analog Liraglutide Improves Vascular Function in Polymicrobial Sepsis by Reduction of Oxidative Stress and Inflammation. Antioxidants, 2021, 10, 1175.	2.2	18
34	Noise and cardiovascular risk: nighttimeÂaircraft noise acutely triggers cardiovascular death. European Heart Journal, 2021, 42, 844-846.	1.0	15
35	Nitroglycerin induces DNA damage and vascular cell death in the setting of nitrate tolerance. Basic Research in Cardiology, 2016, 111, 52.	2.5	14
36	Native, Intact Glucagon-Like Peptide 1 Is a Natural Suppressor of Thrombus Growth Under Physiological Flow Conditions. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, e65-e77.	1.1	14

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37	Noise-Induced Vascular Dysfunction, Oxidative Stress, and Inflammation Are Improved by Pharmacological Modulation of the NRF2/HO-1 Axis. Antioxidants, 2021, 10, 625.	2.2	14
38	The sixth sense is involved in noise-induced stress responses and vascular inflammation: evidence for heightened amygdalar activity in response to transport noise in man. European Heart Journal, 2020, 41, 783-785.	1.0	13
39	Redox Switches in Noise-Induced Cardiovascular and Neuronal Dysregulation. Frontiers in Molecular Biosciences, 2021, 8, 784910.	1.6	12
40	Direct comparison of inorganic nitrite and nitrate on vascular dysfunction and oxidative damage in experimental arterial hypertension. Nitric Oxide - Biology and Chemistry, 2021, 113-114, 57-69.	1.2	11
41	Is At Least One Vitamin Helping Our Vasculature?. Hypertension, 2014, 64, 1187-1188.	1.3	8
42	Detection of extracellular superoxide in isolated human immune cells and in an animal model of arterial hypertension using hydropropidine probe and HPLC analysis. Free Radical Biology and Medicine, 2021, 168, 214-225.	1.3	8
43	Is vaping better than smoking cigarettes?. European Heart Journal, 2020, 41, 2612-2614.	1.0	7
44	Development of an Analytical Assay for Electrochemical Detection and Quantification of Protein-Bound 3-Nitrotyrosine in Biological Samples and Comparison with Classical, Antibody-Based Methods. Antioxidants, 2020, 9, 388.	2.2	6
45	Comparison of three methods for inÂvivo quantification of glutathione in tissues of hypertensive rats. Free Radical Research, 2021, 55, 1048-1061.	1.5	5
46	Long-Term Effects of Aircraft Noise Exposure on Vascular Oxidative Stress, Endothelial Function and Blood Pressure: No Evidence for Adaptation or Tolerance Development. Frontiers in Molecular Biosciences, 2021, 8, 814921.	1.6	4
47	Shortâ€term eâ€cigarette vapor exposure causes vascular oxidative stress and dysfunction â€evidence for a close connection to brain damage and a key role of the phagocytic NADPH oxidase (NOXâ€2). FASEB Journal, 2020, 34, 1-1.	0.2	1
48	Mechanistic Insights into Inorganic Nitrite-Mediated Vasodilation of Isolated Aortic Rings under Oxidative/Hypertensive Conditions and S-Nitros(yl)ation of Proteins in Germ-Free Mice. Biomedicines, 2022, 10, 730.	1.4	1