

Matthias Oelze

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

3,726
citations

201575

27
h-index

360920

35
g-index

36
all docs

36
docs citations

36
times ranked

5105
citing authors

#	ARTICLE	IF	CITATIONS
1	Lysozyme Mâ€“Positive Monocytes Mediate Angiotensin IIâ€“Induced Arterial Hypertension and Vascular Dysfunction. <i>Circulation</i> , 2011, 124, 1370-1381.	1.6	422
2	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017, 13, 94-162.	3.9	242
3	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. <i>PLoS ONE</i> , 2014, 9, e112394.	1.1	222
4	The SGLT2 inhibitor empagliflozin improves the primary diabetic complications in ZDF rats. <i>Redox Biology</i> , 2017, 13, 370-385.	3.9	208
5	Molecular Mechanisms of the Crosstalk Between Mitochondria and NADPH Oxidase Through Reactive Oxygen Speciesâ€“Studies in White Blood Cells and in Animal Models. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 247-266.	2.5	203
6	Crosstalk of mitochondria with NADPH oxidase via reactive oxygen and nitrogen species signalling and its role for vascular function. <i>British Journal of Pharmacology</i> , 2017, 174, 1670-1689.	2.7	203
7	Nebivolol Inhibits Superoxide Formation by NADPH Oxidase and Endothelial Dysfunction in Angiotensin IIâ€“Treated Rats. <i>Hypertension</i> , 2006, 48, 677-684.	1.3	181
8	Effects of noise on vascular function, oxidative stress, and inflammation: mechanistic insight from studies in mice. <i>European Heart Journal</i> , 2017, 38, 2838-2849.	1.0	176
9	New Therapeutic Implications of Endothelial Nitric Oxide Synthase (eNOS) Function/Dysfunction in Cardiovascular Disease. <i>International Journal of Molecular Sciences</i> , 2019, 20, 187.	1.8	166
10	Measurement of NAD(P)H oxidase-derived superoxide with the luminol analogue L-012. <i>Free Radical Biology and Medicine</i> , 2004, 36, 101-111.	1.3	161
11	Crucial role for Nox2 and sleep deprivation in aircraft noise-induced vascular and cerebral oxidative stress, inflammation, and gene regulation. <i>European Heart Journal</i> , 2018, 39, 3528-3539.	1.0	147
12	Nebivolol Prevents Vascular NOS III Uncoupling in Experimental Hyperlipidemia and Inhibits NADPH Oxidase Activity in Inflammatory Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003, 23, 615-621.	1.1	144
13	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). <i>European Heart Journal</i> , 2020, 41, 2472-2483.	1.0	139
14	Detection of Superoxide and Peroxynitrite in Model Systems and Mitochondria by the Luminol Analogue L-012. <i>Free Radical Research</i> , 2004, 38, 259-269.	1.5	125
15	AT1-receptor blockade by telmisartan upregulates GTP-cyclohydrolase I and protects eNOS in diabetic rats. <i>Free Radical Biology and Medicine</i> , 2008, 45, 619-626.	1.3	112
16	Hydralazine is a powerful inhibitor of peroxynitrite formation as a possible explanation for its beneficial effects on prognosis in patients with congestive heart failure. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 1865-1874.	1.0	106
17	Vascular Dysfunction in Experimental Diabetes Is Improved by Pentaerithrityl Tetranitrate but Not Isosorbide-5-Mononitrate Therapy. <i>Diabetes</i> , 2011, 60, 2608-2616.	0.3	86
18	Heme Oxygenase-1. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1729-1735.	1.1	84

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19	Chronic therapy with isosorbide-5-mononitrate causes endothelial dysfunction, oxidative stress, and a marked increase in vascular endothelin-1 expression. <i>European Heart Journal</i> , 2013, 34, 3206-3216.	1.0	79
20	The Oxidative Stress Concept of Nitrate Tolerance and the Antioxidant Properties of Hydralazine. <i>American Journal of Cardiology</i> , 2005, 96, 25-36.	0.7	70
21	Pentaerythritol Tetranitrate Improves Angiotensin II-Induced Vascular Dysfunction via Induction of Heme Oxygenase-1. <i>Hypertension</i> , 2010, 55, 897-904.	1.3	66
22	CD40L contributes to angiotensin II-induced pro-thrombotic state, vascular inflammation, oxidative stress and endothelial dysfunction. <i>Basic Research in Cardiology</i> , 2013, 108, 386.	2.5	55
23	Taking up the cudgels for the traditional reactive oxygen and nitrogen species detection assays and their use in the cardiovascular system. <i>Redox Biology</i> , 2017, 12, 35-49.	3.9	52
24	Discovery of new therapeutic redox targets for cardioprotection against ischemia/reperfusion injury and heart failure. <i>Free Radical Biology and Medicine</i> , 2021, 163, 325-343.	1.3	48
25	Exacerbation of adverse cardiovascular effects of aircraft noise in an animal model of arterial hypertension. <i>Redox Biology</i> , 2020, 34, 101515.	3.9	36
26	The "exposome" concept – how environmental risk factors influence cardiovascular health. <i>Acta Biochimica Polonica</i> , 2019, 66, 269-283.	0.3	32
27	Monitoring White Blood Cell Mitochondrial Aldehyde Dehydrogenase Activity: Implications for Nitrate Therapy in Humans. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 330, 63-71.	1.3	27
28	Regulation of Vascular Function and Inflammation via Cross Talk of Reactive Oxygen and Nitrogen Species from Mitochondria or NADPH Oxidase – Implications for Diabetes Progression. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3405.	1.8	27
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. <i>Antioxidants</i> , 2019, 8, 514.	2.2	23
30	Ablation of lysozyme M-positive cells prevents aircraft noise-induced vascular damage without improving cerebral side effects. <i>Basic Research in Cardiology</i> , 2021, 116, 31.	2.5	23
31	±AMPK deletion in myelomonocytic cells induces a pro-inflammatory phenotype and enhances angiotensin II-induced vascular dysfunction. <i>Cardiovascular Research</i> , 2018, 114, 1883-1893.	1.8	22
32	Nitroglycerin induces DNA damage and vascular cell death in the setting of nitrate tolerance. <i>Basic Research in Cardiology</i> , 2016, 111, 52.	2.5	14
33	Direct comparison of inorganic nitrite and nitrate on vascular dysfunction and oxidative damage in experimental arterial hypertension. <i>Nitric Oxide - Biology and Chemistry</i> , 2021, 113-114, 57-69.	1.2	11
34	Detection of extracellular superoxide in isolated human immune cells and in an animal model of arterial hypertension using hydropropidine probe and HPLC analysis. <i>Free Radical Biology and Medicine</i> , 2021, 168, 214-225.	1.3	8
35	Comparison of three methods for <i>in vivo</i> quantification of glutathione in tissues of hypertensive rats. <i>Free Radical Research</i> , 2021, 55, 1048-1061.	1.5	5
36	Mechanistic Insights into Inorganic Nitrite-Mediated Vasodilation of Isolated Aortic Rings under Oxidative/Hypertensive Conditions and S-Nitros(y)lation of Proteins in Germ-Free Mice. <i>Biomedicines</i> , 2022, 10, 730.	1.4	1