

Martin Feelisch

List of Publications by Year in descending order

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257
papers

22,221
citations

7069

78
h-index

9553

142
g-index

271
all docs

271
docs citations

271
times ranked

16818
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation between nitric oxide formation during degradation of organic nitrates and activation of guanylate cyclase. <i>European Journal of Pharmacology</i> , 1987, 139, 19-30.	1.7	848
2	Persistent inhibition of cell respiration by nitric oxide: Crucial role of S-nitrosylation of mitochondrial complex I and protective action of glutathione. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 7631-7636.	3.3	792
3	Plasma nitrite reflects constitutive nitric oxide synthase activity in mammals. <i>Free Radical Biology and Medicine</i> , 2003, 35, 790-796.	1.3	519
4	Plasma nitrite rather than nitrate reflects regional endothelial nitric oxide synthase activity but lacks intrinsic vasodilator action. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 12814-12819.	3.3	500
5	Nitrite is a signaling molecule and regulator of gene expression in mammalian tissues. <i>Nature Chemical Biology</i> , 2005, 1, 290-297.	3.9	458
6	The Biochemical Pathways of Nitric Oxide Formation from Nitrovasodilators. <i>Journal of Cardiovascular Pharmacology</i> , 1991, 17, S25-S33.	0.8	436
7	Cellular targets and mechanisms of nitros(yl)ation: An insight into their nature and kinetics in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4308-4313.	3.3	385
8	Nitrite as regulator of hypoxic signaling in mammalian physiology. <i>Medicinal Research Reviews</i> , 2009, 29, 683-741.	5.0	373
9	CysteinyI-tRNA synthetase governs cysteine polysulfidation and mitochondrial bioenergetics. <i>Nature Communications</i> , 2017, 8, 1177.	5.8	373
10	Concomitant Sâ€¢, Nâ€¢, and hemeâ€¢nitros(yl)ation in biological tissues and fluids: implications for the fate of NO in vivo. <i>FASEB Journal</i> , 2002, 16, 1775-1785.	0.2	363
11	Paradoxical fate and biological action of peroxynitrite on human platelets.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 6702-6706.	3.3	352
12	No {middle dot}NO from NO synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 14492-14497.	3.3	344
13	Mechanisms of the Antioxidant Effects of Nitric Oxide. <i>Antioxidants and Redox Signaling</i> , 2001, 3, 203-213.	2.5	341
14	Quantitative and kinetic characterization of nitric oxide and EDRF released from cultured endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 1988, 154, 236-244.	1.0	339
15	Plasma nitrite concentrations reflect the degree of endothelial dysfunction in humans. <i>Free Radical Biology and Medicine</i> , 2006, 40, 295-302.	1.3	337
16	Modulation of Nitrosative Stress by <i>S</i> -Nitrosoglutathione Reductase Is Critical for Thermotolerance and Plant Growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2008, 20, 786-802.	3.1	321
17	Higher blood flow and circulating NO products offset high-altitude hypoxia among Tibetans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17593-17598.	3.3	299
18	The use of nitric oxide donors in pharmacological studies. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1998, 358, 113-122.	1.4	297

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19	Nitroxyl anion exerts redox-sensitive positive cardiac inotropy in vivo by calcitonin gene-related peptide signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 10463-10468.	3.3	295
20	A biochemical rationale for the discrete behavior of nitroxyl and nitric oxide in the cardiovascular system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9196-9201.	3.3	265
21	The chemistry of nitrosative stress induced by nitric oxide and reactive nitrogen oxide species. Putting perspective on stressful biological situations. <i>Biological Chemistry</i> , 2004, 385, 1-10.	1.2	256
22	Understanding the controversy over the identity of EDRF. <i>Nature</i> , 1994, 368, 62-65.	13.7	248
23	The Reactive Species Interactome: Evolutionary Emergence, Biological Significance, and Opportunities for Redox Metabolomics and Personalized Medicine. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 684-712.	2.5	244
24	Key bioactive reaction products of the NO/H ₂ S interaction are S/N-hybrid species, polysulfides, and nitroxyl. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4651-60.	3.3	243
25	Identification of N ^ε -mimoethyl-L-ornithine as an irreversible inhibitor of nitric oxide synthase in phagocytic cells. <i>British Journal of Pharmacology</i> , 1991, 102, 234-238.	2.7	238
26	UVA Irradiation of Human Skin Vasodilates Arterial Vasculature and Lowers Blood Pressure Independently of Nitric Oxide Synthase. <i>Journal of Investigative Dermatology</i> , 2014, 134, 1839-1846.	0.3	213
27	The Cytotoxicity of Nitroxyl: Possible Implications for the Pathophysiological Role of NO. <i>Archives of Biochemistry and Biophysics</i> , 1998, 351, 66-74.	1.4	200
28	Nitric oxide is consumed, rather than conserved, by reaction with oxyhemoglobin under physiological conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10341-10346.	3.3	195
29	Chemical nature of nitric oxide storage forms in rat vascular tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 336-341.	3.3	195
30	Nitroxyl affords thiol-sensitive myocardial protective effects akin to early preconditioning. <i>Free Radical Biology and Medicine</i> , 2003, 34, 33-43.	1.3	193
31	Tissue Processing of Nitrite in Hypoxia. <i>Journal of Biological Chemistry</i> , 2008, 283, 33927-33934.	1.6	193
32	Concomitant presence of N-nitroso and S-nitroso proteins in human plasma. <i>Free Radical Biology and Medicine</i> , 2002, 33, 1590-1596.	1.3	182
33	Cardioprotective effects of thioredoxin in myocardial ischemia and reperfusion: Role of S-nitrosation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 11471-11476.	3.3	180
34	Evidence for in vivo transport of bioactive nitric oxide in human plasma. <i>Journal of Clinical Investigation</i> , 2002, 109, 1241-1248.	3.9	174
35	Oxidation and Nitrosation of Thiols at Low Micromolar Exposure to Nitric Oxide. <i>Journal of Biological Chemistry</i> , 2003, 278, 15720-15726.	1.6	173
36	Oxidative Stress and Redox-Modulating Therapeutics in Inflammatory Bowel Disease. <i>Trends in Molecular Medicine</i> , 2020, 26, 1034-1046.	3.5	169

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37	Therapeutic Uses of Inorganic Nitrite and Nitrate. <i>Circulation</i> , 2008, 117, 2151-2159.	1.6	167
38	Opposite effects of nitric oxide and nitroxyl on postischemic myocardial injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 14617-14622.	3.3	166
39	Nitric oxide (NO) formation from nitrovasodilators occurs independently of hemoglobin or non-heme iron. <i>European Journal of Pharmacology</i> , 1987, 142, 465-469.	1.7	165
40	Biological hydropersulfides and related polysulfides – a new concept and perspective in redox biology. <i>FEBS Letters</i> , 2018, 592, 2140-2152.	1.3	164
41	Plasma Nitrosothiols Contribute to the Systemic Vasodilator Effects of Intravenously Applied NO. <i>Circulation Research</i> , 2002, 91, 470-477.	2.0	162
42	Metabolic basis to Sherpa altitude adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6382-6387.	3.3	162
43	The Soluble Guanylyl Cyclase Inhibitor 1 <i>H</i> -[1,2,4]Oxadiazolo[4,3- <i>a</i>]quinoxalin-1-one Is a Nonselective Heme Protein Inhibitor of Nitric Oxide Synthase and Other Cytochrome P-450 Enzymes Involved in Nitric Oxide Donor Bioactivation. <i>Molecular Pharmacology</i> , 1999, 56, 243-253.	1.0	154
44	A chemiluminescence-based assay for S-nitrosoalbumin and other plasma S-nitrosothiols. <i>Free Radical Research</i> , 2000, 32, 1-9.	1.5	153
45	Thiol-mediated generation of nitric oxide accounts for the vasodilator action of furoxans. <i>Biochemical Pharmacology</i> , 1992, 44, 1149-1157.	2.0	152
46	Cardioprotective effects of vegetables: Is nitrate the answer?. <i>Nitric Oxide - Biology and Chemistry</i> , 2006, 15, 359-362.	1.2	152
47	Biotransformation of organic nitrates to nitric oxide by vascular smooth muscle and endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 1991, 180, 286-293.	1.0	151
48	Human red blood cells at work: identification and visualization of erythrocytic eNOS activity in health and disease. <i>Blood</i> , 2012, 120, 4229-4237.	0.6	151
49	Low-Dose Nitric Oxide as Targeted Anti-biofilm Adjunctive Therapy to Treat Chronic <i>Pseudomonas aeruginosa</i> Infection in Cystic Fibrosis. <i>Molecular Therapy</i> , 2017, 25, 2104-2116.	3.7	149
50	NO adducts in mammalian red blood cells: too much or too little?. <i>Nature Medicine</i> , 2003, 9, 481-482.	15.2	147
51	Circulating no pool: assessment of nitrite and nitroso species in blood and tissues. <i>Free Radical Biology and Medicine</i> , 2004, 36, 413-422.	1.3	145
52	Blueberries improve biomarkers of cardiometabolic function in participants with metabolic syndrome—results from a 6-month, double-blind, randomized controlled trial. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 1535-1545.	2.2	145
53	Dynamic state of S-nitrosothiols in human plasma and whole blood. <i>Free Radical Biology and Medicine</i> , 2000, 28, 409-417.	1.3	142
54	The Nitric Oxide/Superoxide Assay. <i>Journal of Biological Chemistry</i> , 1997, 272, 9922-9932.	1.6	140

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55	Nitrosopersulfide (SSNO ^{•-}) accounts for sustained NO bioactivity of S-nitrosothiols following reaction with sulfide. <i>Redox Biology</i> , 2014, 2, 234-244.	3.9	133
56	Unique Oxidative Mechanisms for the Reactive Nitrogen Oxide Species, Nitroxyl Anion. <i>Journal of Biological Chemistry</i> , 2001, 276, 1720-1727.	1.6	126
57	Metabolism of hydrogen sulfide (H ₂ S) and Production of Reactive Sulfur Species (RSS) by superoxide dismutase. <i>Redox Biology</i> , 2018, 15, 74-85.	3.9	125
58	Bioassay Discrimination between Nitric Oxide (NO [•]) and Nitroxyl (NO ^{•-}) Using L-Cysteine. <i>Biochemical and Biophysical Research Communications</i> , 1994, 201, 54-62.	1.0	121
59	Intravenous sodium nitrite in acute ST-elevation myocardial infarction: a randomized controlled trial (NIAMI). <i>European Heart Journal</i> , 2014, 35, 1255-1262.	1.0	121
60	Inorganic Nitrate Promotes the Browning of White Adipose Tissue Through the Nitrate-Nitrite-Nitric Oxide Pathway. <i>Diabetes</i> , 2015, 64, 471-484.	0.3	121
61	Plasma Nitroso Compounds Are Decreased in Patients With Endothelial Dysfunction. <i>Journal of the American College of Cardiology</i> , 2006, 47, 573-579.	1.2	117
62	Comparison of the reactivity of nitric oxide and nitroxyl with heme proteins. <i>Journal of Inorganic Biochemistry</i> , 2003, 93, 52-60.	1.5	114
63	Biochemical Characterization of S-Nitrosohemoglobin. <i>Journal of Biological Chemistry</i> , 1999, 274, 28983-28990.	1.6	108
64	The early role of nitric oxide in evolution. <i>Trends in Ecology and Evolution</i> , 1995, 10, 496-499.	4.2	104
65	The role of nitrogen oxides in human adaptation to hypoxia. <i>Scientific Reports</i> , 2011, 1, 109.	1.6	103
66	Ultraviolet Radiation Suppresses Obesity and Symptoms of Metabolic Syndrome Independently of Vitamin D in Mice Fed a High-Fat Diet. <i>Diabetes</i> , 2014, 63, 3759-3769.	0.3	101
67	Speciation of reactive sulfur species and their reactions with alkylating agents: do we have any clue about what is present inside the cell?. <i>British Journal of Pharmacology</i> , 2019, 176, 646-670.	2.7	100
68	The Key Role of Nitric Oxide in Hypoxia: Hypoxic Vasodilation and Energy Supply “Demand Matching. Antioxidants and Redox Signaling, 2013, 19, 1690-1710.	2.5	97
69	On the chemical biology of the nitrite/sulfide interaction. <i>Nitric Oxide - Biology and Chemistry</i> , 2015, 46, 14-24.	1.2	96
70	Evidence for in vivo transport of bioactive nitric oxide in human plasma. <i>Journal of Clinical Investigation</i> , 2002, 109, 1241-1248.	3.9	96
71	Brief Periods of Nitric Oxide Inhalation Protect against Myocardial Ischemia “Reperfusion Injury. <i>Anesthesiology</i> , 2008, 109, 675-682.	1.3	94
72	Is sunlight good for our heart?. <i>European Heart Journal</i> , 2010, 31, 1041-1045.	1.0	93

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73	Cardiomyocyte-Specific Overexpression of NO Synthase-3 Protects Against Myocardial Ischemia-Reperfusion Injury. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 1517-1523.	1.1	91
74	Release of endothelium derived nitric oxide in relation to pressure and flow. <i>Cardiovascular Research</i> , 1991, 25, 831-836.	1.8	86
75	Orthogonal properties of the redox siblings nitroxyl and nitric oxide in the cardiovascular system: a novel redox paradigm. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H2264-H2276.	1.5	86
76	Red Blood Cell and Endothelial eNOS Independently Regulate Circulating Nitric Oxide Metabolites and Blood Pressure. <i>Circulation</i> , 2021, 144, 870-889.	1.6	85
77	Hydrogen sulfide attenuates calcification of vascular smooth muscle cells via KEAP1/NRF2/NQO1 activation. <i>Atherosclerosis</i> , 2017, 265, 78-86.	0.4	83
78	Mechanisms of Cell Death Governed by the Balance between Nitrosative and Oxidative Stress. <i>Annals of the New York Academy of Sciences</i> , 2000, 899, 209-221.	1.8	82
79	On the Effects of Reactive Oxygen Species and Nitric Oxide on Red Blood Cell Deformability. <i>Frontiers in Physiology</i> , 2018, 9, 332.	1.3	80
80	Nitroxyl gets to the heart of the matter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4978-4980.	3.3	79
81	Differential nitros(yl)ation of blood and tissue constituents during glyceryl trinitrate biotransformation in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16958-16963.	3.3	79
82	The Redox architecture of physiological function. <i>Current Opinion in Physiology</i> , 2019, 9, 34-47.	0.9	79
83	Measurement of Nitric Oxide Levels in the Red Cell. <i>Journal of Biological Chemistry</i> , 2006, 281, 26994-27002.	1.6	76
84	Genetic overexpression of eNOS attenuates hepatic ischemia-reperfusion injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H2980-H2986.	1.5	73
85	Insufficient Sun Exposure Has Become a Real Public Health Problem. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5014.	1.2	71
86	Guide for the use of nitric oxide (NO) donors as probes of the chemistry of NO and related redox species in biological systems. <i>Methods in Enzymology</i> , 2002, 359, 84-105.	0.4	66
87	Autologous Transfusion of Stored Red Blood Cells Increases Pulmonary Artery Pressure. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 190, 800-807.	2.5	63
88	Nitric oxide modulates endotoxin-induced platelet-endothelial cell adhesion in intestinal venules. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 282, H1111-H1117.	1.5	62
89	Metabolic adjustment to high-altitude hypoxia: from genetic signals to physiological implications. <i>Biochemical Society Transactions</i> , 2018, 46, 599-607.	1.6	61
90	Performance of diamino fluorophores for the localization of sources and targets of nitric oxide. <i>Free Radical Biology and Medicine</i> , 2005, 38, 356-368.	1.3	60

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91	The reaction products of sulfide and S-nitrosoglutathione are potent vasorelaxants. <i>Nitric Oxide - Biology and Chemistry</i> , 2015, 46, 123-130.	1.2	60
92	Inorganic sulfur- and nitrogen compounds: from gunpowder chemistry to the forefront of biological signaling. <i>Dalton Transactions</i> , 2016, 45, 5908-5919.	1.6	60
93	A robust and versatile mass spectrometry platform for comprehensive assessment of the thiol redox metabolome. <i>Redox Biology</i> , 2018, 16, 359-380.	3.9	60
94	Identification of a soluble guanylate cyclase in RBCs: preserved activity in patients with coronary artery disease. <i>Redox Biology</i> , 2018, 14, 328-337.	3.9	59
95	Serum free thiols in chronic heart failure. <i>Pharmacological Research</i> , 2016, 111, 452-458.	3.1	58
96	Nitric oxide modulates sympathetic neurotransmission at the prejunctional level. <i>Microscopy Research and Technique</i> , 1994, 29, 161-168.	1.2	57
97	Thiols enhance NO formation from nitrate photolysis. <i>Free Radical Biology and Medicine</i> , 2003, 35, 1551-1559.	1.3	56
98	The role of vascular myoglobin in nitrite-mediated blood vessel relaxation. <i>Cardiovascular Research</i> , 2011, 89, 560-565.	1.8	56
99	Role of Nitric Oxide in the Regulation of Coronary Vascular Tone in Hearts From Hypertensive Rats. <i>Hypertension</i> , 1995, 25, 186-193.	1.3	55
100	Mechanistic Insights Into Nitrite-Induced Cardioprotection Using an Integrated Metabolomic/Proteomic Approach. <i>Circulation Research</i> , 2009, 104, 796-804.	2.0	54
101	Application of an Optimized Total <i>N</i> -Nitrosamine (TONO) Assay to Pools: Placing <i>N</i> -Nitrosodimethylamine (NDMA) Determinations into Perspective. <i>Environmental Science & Technology</i> , 2010, 44, 3369-3375.	4.6	47
102	Dietary nitrate increases arginine availability and protects mitochondrial complex I and energetics in the hypoxic rat heart. <i>Journal of Physiology</i> , 2014, 592, 4715-4731.	1.3	47
103	Contributions of Nitric Oxide Synthases, Dietary Nitrite/Nitrate, and Other Sources to the Formation of NO Signaling Products. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 422-432.	2.5	46
104	Effect of Nitric Oxide Donors on Neointima Formation and Vascular Reactivity in the Collared Carotid Artery of Rabbits. <i>Journal of Cardiovascular Pharmacology</i> , 1995, 26, 272-279.	0.8	43
105	Electron-paramagnetic resonance spectroscopy using N-methyl-D-glucamine dithiocarbamate iron cannot discriminate between nitric oxide and nitroxyl: implications for the detection of reaction products for nitric oxide synthase. <i>Free Radical Biology and Medicine</i> , 2000, 28, 739-742.	1.3	43
106	A multilevel analytical approach for detection and visualization of intracellular NO production and nitrosation events using diamino fluoresceins. <i>Free Radical Biology and Medicine</i> , 2012, 53, 2146-2158.	1.3	43
107	Ammonium tetrathiomolybdate following ischemia/reperfusion injury: Chemistry, pharmacology, and impact of a new class of sulfide donor in preclinical injury models. <i>PLoS Medicine</i> , 2017, 14, e1002310.	3.9	43
108	Effects of Prolonged Exposure to Hypobaric Hypoxia on Oxidative Stress, Inflammation and Gluco-Insular Regulation: The Not-So-Sweet Price for Good Regulation. <i>PLoS ONE</i> , 2014, 9, e94915.	1.1	42

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109	Acute Dietary Nitrate Supplementation and Exercise Performance in COPD: A Double-Blind, Placebo-Controlled, Randomised Controlled Pilot Study. <i>PLoS ONE</i> , 2015, 10, e0144504.	1.1	42
110	Impaired effectiveness of nitric oxide-donors in resistance arteries of patients with arterial hypertension. <i>Journal of Hypertension</i> , 1996, 14, 903-908.	0.3	41
111	Measurement of in vivo nitric oxide synthesis in humans using stable isotopic methods: a systematic review. <i>Free Radical Biology and Medicine</i> , 2011, 51, 795-804.	1.3	40
112	Autoinhibition of neuronal nitric oxide synthase: distinct effects of reactive nitrogen and oxygen species on enzyme activity. <i>Biochemical Journal</i> , 1999, 340, 745-752.	1.7	39
113	Glutathione peroxidase deficiency exacerbates ischemia-reperfusion injury in male but not female myocardium: insights into antioxidant compensatory mechanisms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H2144-H2153.	1.5	39
114	On the dynamics of nitrite, nitrate and other biomarkers of nitric oxide production in inflammatory bowel disease. <i>Nitric Oxide - Biology and Chemistry</i> , 2010, 22, 155-167.	1.2	39
115	Integrating nitric oxide, nitrite and hydrogen sulfide signaling in the physiological adaptations to hypoxia: A comparative approach. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012, 162, 1-6.	0.8	39
116	Perioperative Oxidative Stress: The Unseen Enemy. <i>Anesthesia and Analgesia</i> , 2019, 129, 1749-1760.	1.1	38
117	Nitroxyl oxidizes NADPH in a superoxide dismutase inhibitable manner. <i>Free Radical Biology and Medicine</i> , 2001, 30, 803-808.	1.3	37
118	Bound NO in human red blood cells: fact or artifact?. <i>Nitric Oxide - Biology and Chemistry</i> , 2004, 10, 221-228.	1.2	37
119	Transfusion of Stored Autologous Blood Does Not Alter Reactive Hyperemia Index in Healthy Volunteers. <i>Anesthesiology</i> , 2012, 117, 56-63.	1.3	37
120	Nitrate enhances skeletal muscle fatty acid oxidation via a nitric oxide-cGMP-PPAR-mediated mechanism. <i>BMC Biology</i> , 2015, 13, 110.	1.7	37
121	Does Incident Solar Ultraviolet Radiation Lower Blood Pressure?. <i>Journal of the American Heart Association</i> , 2020, 9, e013837.	1.6	37
122	Sublingual microcirculatory blood flow and vessel density in Sherpas at high altitude. <i>Journal of Applied Physiology</i> , 2017, 122, 1011-1018.	1.2	36
123	Inorganic Nitrate Mimics Exercise-Stimulated Muscular Fiber-Type Switching and Myokine and β -Aminobutyric Acid Release. <i>Diabetes</i> , 2017, 66, 674-688.	0.3	35
124	Cephalosporin nitric oxide-donor prodrug DEA-C3D disperses biofilms formed by clinical cystic fibrosis isolates of <i>Pseudomonas aeruginosa</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 117-125.	1.3	35
125	Early Endothelial Dysfunction in Type 1 Diabetes Is Accompanied by an Impairment of Vascular Smooth Muscle Function: A Meta-Analysis. <i>Frontiers in Endocrinology</i> , 2020, 11, 203.	1.5	35
126	Short-Term Intravenous Sodium Nitrite Infusion Improves Cardiac and Pulmonary Hemodynamics in Heart Failure Patients. <i>Circulation: Heart Failure</i> , 2015, 8, 565-571.	1.6	34

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127	Nrf2 Deficiency Unmasks the Significance of Nitric Oxide Synthase Activity for Cardioprotection. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-15.	1.9	34
128	Human endothelial cells bioactivate organic nitrates to nitric oxide: implications for the reinforcement of endothelial defence mechanisms. <i>European Journal of Clinical Investigation</i> , 1995, 25, 737-745.	1.7	33
129	Serum free sulfhydryl status is associated with patient and graft survival in renal transplant recipients. <i>Free Radical Biology and Medicine</i> , 2016, 99, 345-351.	1.3	33
130	The Role of Oxidative Stress in the Development of Systemic Sclerosis Related Vasculopathy. <i>Frontiers in Physiology</i> , 2018, 9, 1177.	1.3	33
131	The Chemical Biology of Nitric Oxide. , 2000, , 41-55.		32
132	Investigations on the role of hemoglobin in sulfide metabolism by intact human red blood cells. <i>Biochemical Pharmacology</i> , 2018, 149, 163-173.	2.0	31
133	Long-lasting blood pressure lowering effects of nitrite are NO-independent and mediated by hydrogen peroxide, persulfides, and oxidation of protein kinase G1± redox signalling. <i>Cardiovascular Research</i> , 2020, 116, 51-62.	1.8	31
134	An integrated approach to assessing nitroso-redox balance in systemic inflammation. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1137-1145.	1.3	30
135	Plasma ADMA associates with all-cause mortality in renal transplant recipients. <i>Amino Acids</i> , 2015, 47, 1941-1949.	1.2	30
136	Suppression of TAK1 pathway by shear stress counteracts the inflammatory endothelial cell phenotype induced by oxidative stress and TGF-β1. <i>Scientific Reports</i> , 2017, 7, 42487.	1.6	30
137	Does hypoxia play a role in the development of sarcopenia in humans? Mechanistic insights from the Caudwell Xtreme Everest Expedition. <i>Redox Biology</i> , 2017, 13, 60-68.	3.9	30
138	Balancing role of nitric oxide in complement-mediated activation of platelets from <i>Cd59a</i> and <i>Cd59b</i> double-knockout mice. <i>American Journal of Hematology</i> , 2009, 84, 221-227.	2.0	29
139	Beetroot juice versus chard gel: A pharmacokinetic and pharmacodynamic comparison of nitrate bioavailability. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 64, 61-67.	1.2	29
140	Nitrosative stress in an animal model of necrotizing enterocolitis. <i>Free Radical Biology and Medicine</i> , 2005, 39, 1428-1437.	1.3	28
141	Vitamin D and allergic airway disease shape the murine lung microbiome in a sex-specific manner. <i>Respiratory Research</i> , 2016, 17, 116.	1.4	28
142	Changes in acute pulmonary vascular responsiveness to hypoxia during a progressive ascent to high altitude (5300Am). <i>Experimental Physiology</i> , 2017, 102, 711-724.	0.9	28
143	Sub-erythral ultraviolet radiation reduces metabolic dysfunction in already overweight mice. <i>Journal of Endocrinology</i> , 2017, 233, 81-92.	1.2	28
144	COVID-19: A Redox Disease—What a Stress Pandemic Can Teach Us About Resilience and What We May Learn from the Reactive Species Interactome About Its Treatment. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 1226-1268.	2.5	28

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145	The Role of Nitric Oxide in the Regulation of Coronary Vascular Resistance in Arterial Hypertension: Comparison of Normotensive and Spontaneously Hypertensive Rats. <i>Journal of Cardiovascular Pharmacology</i> , 1992, 20, S183-S186.	0.8	27
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