Paul G Winyard

List of Publications by Citations

189 papers	10,151 citations	54 h-index	96 g-index
225 ext. papers	11,292 ext. citations	5.5 avg, IF	5.93 L-index

#	Paper	IF	Citations
189	Dietary nitrate supplementation reduces the O2 cost of low-intensity exercise and enhances tolerance to high-intensity exercise in humans. *Journal of Applied Physiology*, **2009**, 107, 1144-55	3.7	519
188	Clinical Relevance of Biomarkers of Oxidative Stress. *Antioxidants and Redox Signaling*, **2015**, 23, 1144-70	8.4	415
187	Dietary nitrate supplementation enhances muscle contractile efficiency during knee-extensor exercise in humans. *Journal of Applied Physiology*, **2010**, 109, 135-48	3.7	407
186	Acute and chronic effects of dietary nitrate supplementation on blood pressure and the physiological responses to moderate-intensity and incremental exercise. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2010**, 299, R1121-31	3.2	334
185	Dietary nitrate supplementation reduces the O2 cost of walking and running: a placebo-controlled study. *Journal of Applied Physiology*, **2011**, 110, 591-600	3.7	302
184	Beetroot juice and exercise: pharmacodynamic and dose-response relationships. *Journal of Applied Physiology*, **2013**, 115, 325-36	3.7	285
183	Activation of the transcription factor nuclear factor-kappaB in human inflamed synovial tissue. *Arthritis and Rheumatism*, **1996**, 39, 583-91		274
182	Free radicals in inflammation: second messengers and mediators of tissue destruction. *British Medical Bulletin*, **1993**, 49, 506-22	5.4	269
181	Acute dietary nitrate supplementation improves cycling time trial performance. *Medicine and Science in Sports and Exercise*, **2011**, 43, 1125-31	1.2	248
180	Hydrogen sulfide and inflammation: the good, the bad, the ugly and the promising. *Expert Review of Clinical Pharmacology*, **2011**, 4, 13-32	3.8	219
179	Generation of nitric oxide by a nitrite reductase activity of xanthine oxidase: a potential pathway for nitric oxide formation in the absence of nitric oxide synthase activity. *Biochemical and Biophysical Research Communications*, **1998**, 249, 767-72	3.4	209
178	Oxidative activation of antioxidant defence. *Trends in Biochemical Sciences*, **2005**, 30, 453-61	10.3	196
177	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	11.3	185
176	Oxidative DNA damage and cellular sensitivity to oxidative stress in human autoimmune diseases. *Annals of the Rheumatic Diseases*, **1993**, 52, 659-66	2.4	184
175	Effect of dietary nitrate on blood pressure, endothelial function, and insulin sensitivity in type 2 diabetes. *Free Radical Biology and Medicine*, **2013**, 60, 89-97	7.8	169
174	Myeloperoxidase and oxidative stress in rheumatoid arthritis. *Rheumatology*, **2012**, 51, 1796-803	3.9	149
173	Effects of short-term dietary nitrate supplementation on blood pressure, O2 uptake kinetics, and muscle and cognitive function in older adults. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2013**, 304, R73-83	3.2	146

172	Dietary nitrate reduces muscle metabolic perturbation and improves exercise tolerance in hypoxia. *Journal of Physiology*, **2011**, 589, 5517-28	3.9	145
171	Hydrogen sulfide and nitric oxide interactions in inflammation. *Nitric Oxide - Biology and Chemistry*, **2014**, 41, 38-47	5	141
170	Inactivation of tissue inhibitor of metalloproteinase-1 by peroxynitrite. *FEBS Letters*, **1996**, 381, 21-4	3.8	125
169	Oxidative stress in autoimmune rheumatic diseases. *Free Radical Biology and Medicine*, **2018**, 125, 3-14	7.8	108
168	Developing the next generation of graphene-based platforms for cancer therapeutics: The potential role of reactive oxygen species. *Redox Biology*, **2018**, 15, 34-40	11.3	107
167	Biocompatibility and toxicity of graphene quantum dots for potential application in photodynamic therapy. *Nanomedicine*, **2018**, 13, 1923-1937	5.6	94
166	Dietary nitrate supplementation improves reaction time in type 2 diabetes: development and application of a novel nitrate-depleted beetroot juice placebo. *Nitric Oxide - Biology and Chemistry*, **2014**, 40, 67-74	5	93
165	Acute L-arginine supplementation reduces the O2 cost of moderate-intensity exercise and enhances high-intensity exercise tolerance. *Journal of Applied Physiology*, **2010**, 109, 1394-403	3.7	92
164	Dietary nitrate--good or bad?. *Nitric Oxide - Biology and Chemistry*, **2010**, 22, 104-9	5	90
163	Aspects of the biological redox chemistry of cysteine: from simple redox responses to sophisticated signalling pathways. *Biological Chemistry*, **2006**, 387, 1385-97	4.5	89
162	Inducible hydrogen sulfide synthesis in chondrocytes and mesenchymal progenitor cells: is H2S a novel cytoprotective mediator in the inflamed joint?. *Journal of Cellular and Molecular Medicine*, **2012**, 16, 896-910	5.6	86
161	The complex effects of the slow-releasing hydrogen sulfide donor GYY4137 in a model of acute joint inflammation and in human cartilage cells. *Journal of Cellular and Molecular Medicine*, **2013**, 17, 365-76	5.6	86
160	Putative analgesic activity of repeated oral doses of vitamin E in the treatment of rheumatoid arthritis. Results of a prospective placebo controlled double blind trial. *Annals of the Rheumatic Diseases*, **1997**, 56, 649-55	2.4	86
159	Presence of foam cells containing oxidised low density lipoprotein in the synovial membrane from patients with rheumatoid arthritis. *Annals of the Rheumatic Diseases*, **1993**, 52, 677-80	2.4	81
158	Detection of oxidants in uremic plasma by electron spin resonance spectroscopy. *Kidney International*, **1995**, 48, 199-206	9.9	80
157	Dietary nitrate supplementation: effects on plasma nitrite and pulmonary O2 uptake dynamics during exercise in hypoxia and normoxia. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2014**, 307, R920-30	3.2	79
156	The behaviour of caeruloplasmin in stored human extracellular fluids in relation to ferroxidase II activity, lipid peroxidation and phenanthroline-detectable copper. *Biochemical Journal*, **1985**, 230, 517-23	3.8	79
155	The synthesis and functional evaluation of a mitochondria-targeted hydrogen sulfide donor, (10-oxo-10-(4-(3-thioxo-3H-1,2-dithiol-5-yl)phenoxy)decyl)triphenylphosphonium bromide (AP39). *MedChemComm*, **2014**, 5, 728-736	5	78

154	Dietary nitrate modulates cerebral blood flow parameters and cognitive performance in humans: A double-blind, placebo-controlled, crossover investigation. *Physiology and Behavior*, **2015**, 149, 149-58	3.5	78
153	A reappraisal of xanthine dehydrogenase and oxidase in hypoxic reperfusion injury: the role of NADH as an electron donor. *Free Radical Research*, **1998**, 28, 151-64	4	78
152	Antioxidants, redox-regulated transcription factors, and inflammation. *Advances in Pharmacology*, **1997**, 38, 403-21	5.7	77
151	Nitrate-responsive oral microbiome modulates nitric oxide homeostasis and blood pressure in humans. *Free Radical Biology and Medicine*, **2018**, 124, 21-30	7.8	76
150	A mechanism of release of calreticulin from cells during apoptosis. *Journal of Molecular Biology*, **2010**, 401, 799-812	6.5	75
149	Measurement and meaning of markers of reactive species of oxygen, nitrogen and sulfur in healthy human subjects and patients with inflammatory joint disease. *Biochemical Society Transactions*, **2011**, 39, 1226-32	5.1	74
148	l-Citrulline supplementation improves O2 uptake kinetics and high-intensity exercise performance in humans. *Journal of Applied Physiology*, **2015**, 119, 385-95	3.7	73
147	Oxygen free radicals, inflammation, and synovitis: and synovitis: the current status. *Annals of the Rheumatic Diseases*, **1989**, 48, 864-70	2.4	73
146	Influence of dietary nitrate supplementation on human skeletal muscle metabolism and force production during maximum voluntary contractions. *Pflugers Archiv European Journal of Physiology*, **2013**, 465, 517-28	4.6	71
145	Inhibition of neutrophil superoxide production by human plasma alpha 1-antitrypsin. *FEBS Letters*, **1992**, 300, 21-4	3.8	71
144	Oxidative post-translational modifications and their involvement in the pathogenesis of autoimmune diseases. *Redox Biology*, **2014**, 2, 715-24	11.3	69
143	Mechanism of exacerbation of rheumatoid synovitis by total-dose iron-dextran infusion: in-vivo demonstration of iron-promoted oxidant stress. *Lancet, The*, **1987**, 1, 69-72	40	65
142	Human xanthine oxidase converts nitrite ions into nitric oxide (NO). *Biochemical Society Transactions*, **1997**, 25, 524S	5.1	63
141	Selective antimicrobial activity associated with sulfur nanoparticles. *Journal of Biomedical Nanotechnology*, **2011**, 7, 395-405	4	61
140	Alpha-tocopherol, lipids and lipoproteins in knee-joint synovial fluid and serum from patients with inflammatory joint disease. *Clinical Science*, **1992**, 83, 657-64	6.5	59
139	Consequence of neo-antigenicity of the Saltered selfS *Rheumatology*, **2008**, 47, 567-71	3.9	57
138	Detection of hydrogen sulfide in plasma and knee-joint synovial fluid from rheumatoid arthritis patients: relation to clinical and laboratory measures of inflammation. *Annals of the New York Academy of Sciences*, **2010**, 1203, 146-50	6.5	56
137	Proteolytic inactivation of human alpha 1 antitrypsin by human stromelysin. *FEBS Letters*, **1991**, 279, 91-4	3.8	56

136	Autoantibodies to posttranslational modifications in rheumatoid arthritis. *Mediators of Inflammation*, **2014**, 2014, 492873	4.3	55
135	Generation of neoantigenic epitopes after posttranslational modification of type II collagen by factors present within the inflamed joint. *Arthritis and Rheumatism*, **2005**, 52, 3829-38		53
134	The nitrate-nitrite-nitric oxide pathway: Its role in human exercise physiology. *European Journal of Sport Science*, **2012**, 12, 309-320	3.9	52
133	Dietary antioxidants in inflammatory arthritis: do they have any role in etiology or therapy?. *Nature Clinical Practice Rheumatology*, **2008**, 4, 590-6		50
132	Role of inorganic nitrate and nitrite in driving nitric oxide-cGMP-mediated inhibition of platelet aggregation in vitro and in vivo. *Journal of Thrombosis and Haemostasis*, **2014**, 12, 1880-9	15.4	49
131	The effect of dietary nitrate supplementation on the oxygen cost of cycling, walking performance and resting blood pressure in individuals with chronic obstructive pulmonary disease: A double blind placebo controlled, randomised control trial. *Nitric Oxide - Biology and Chemistry*, **2015**, 48, 31-7	5	49
130	Amelioration of antigen-induced arthritis in rats by transfer of extracellular superoxide dismutase and catalase genes. *Gene Therapy*, **2003**, 10, 550-8	4	49
129	Autoantibodies to posttranslationally modified type II collagen as potential biomarkers for rheumatoid arthritis. *Arthritis and Rheumatism*, **2013**, 65, 1702-12		48
128	Nitrate pharmacokinetics: Taking note of the difference. *Nitric Oxide - Biology and Chemistry*, **2015**, 48, 44-50	5	47
127	Ocular toxicity of desferrioxamine--an example of copper promoted auto-oxidative damage?. *British Journal of Ophthalmology*, **1989**, 73, 42-7	5.5	46
126	Frequency of Th17 CD20+ cells in the peripheral blood of rheumatoid arthritis patients is higher compared to healthy subjects. *Arthritis Research and Therapy*, **2011**, 13, R208	5.7	45
125	Simultaneous analysis of nitrite, nitrate and the nicotinamide nucleotides by capillary electrophoresis: application to biochemical studies and human extracellular fluids. *Electrophoresis*, **1999**, 20, 2111-7	3.6	45
124	Effects of dietary nitrate supplementation on the oxygen cost of exercise and walking performance in individuals with type 2 diabetes: a randomized, double-blind, placebo-controlled crossover trial. *Free Radical Biology and Medicine*, **2015**, 86, 200-8	7.8	44
123	Proteolysis of human native and oxidised alpha 1-proteinase inhibitor by matrilysin and stromelysin. *Biochimica Et Biophysica Acta - General Subjects*, **1994**, 1199, 224-8	4	44
122	Inactivation of the elastase inhibitory activity of alpha 1 antitrypsin in fresh samples of synovial fluid from patients with rheumatoid arthritis. *Annals of the Rheumatic Diseases*, **1991**, 50, 915-6	2.4	44
121	Endothelial cell cytotoxicity in inflammatory vascular diseases--the possible role of oxidised lipoproteins. *Annals of the Rheumatic Diseases*, **1985**, 44, 176-82	2.4	44
120	NF-kappa B activation in human knee-joint synovial tissue during the early stage of joint inflammation. *Biochemical Society Transactions*, **1997**, 25, 518S	5.1	43
119	Modified low density lipoprotein and cytokines mediate monocyte adhesion to smooth muscle cells. *Atherosclerosis*, **1996**, 127, 167-76	3.1	43

118	Two weeks of watermelon juice supplementation improves nitric oxide bioavailability but not endurance exercise performance in humans. *Nitric Oxide - Biology and Chemistry*, **2016**, 59, 10-20	5	43
117	The Effects of Chronic Nitrate Supplementation and the Use of Strong and Weak Antibacterial Agents on Plasma Nitrite Concentration and Exercise Blood Pressure. *International Journal of Sports Medicine*, **2015**, 36, 1177-85	3.6	42
116	Nitric oxide and the regulation of apoptosis in tumour cells. *Current Pharmaceutical Design*, **2006**, 12, 4445-68	3.3	41
115	Evidence for oxidised low density lipoprotein in synovial fluid from rheumatoid arthritis patients. *Free Radical Research*, **2000**, 32, 479-86	4	40
114	Effects of oxidative stress on some physiochemical properties of caeruloplasmin. *Biochemical Journal*, **1989**, 258, 435-45	3.8	40
113	Extracellular calreticulin is present in the joints of patients with rheumatoid arthritis and inhibits FasL (CD95L)-mediated apoptosis of T cells. *Arthritis and Rheumatism*, **2010**, 62, 2919-29		39
112	Biomarkers of early stage osteoarthritis, rheumatoid arthritis and musculoskeletal health. *Scientific Reports*, **2015**, 5, 9259	4.9	37
111	On the mechanism by which dietary nitrate improves human skeletal muscle function. *Frontiers in Physiology*, **2015**, 6, 211	4.6	37
110	Extent of oxidative modification of low density lipoprotein determines the degree of cytotoxicity to human coronary artery cells. *Heart*, **1996**, 75, 11-6	5.1	37
109	Investigation into the toxic effects of graphene nanopores on lung cancer cells and biological tissues. *Applied Materials Today*, **2018**, 12, 389-401	6.6	37
108	Ageing modifies the effects of beetroot juice supplementation on 24-hour blood pressure variability: An individual participant meta-analysis. *Nitric Oxide - Biology and Chemistry*, **2015**, 47, 97-105	5	35
107	Human single-chain variable fragment that specifically targets arthritic cartilage. *Arthritis and Rheumatism*, **2010**, 62, 1007-16		35
106	Oxidative and other posttranslational modifications in extracellular vesicle biology. *Seminars in Cell and Developmental Biology*, **2015**, 40, 8-16	7.5	32
105	**2009**,		32
104	The Contribution of Hypoxia-Reperfusion Injury to Inflammatory Synovitis: The Influence of Reactive Oxygen Intermediates on the Transcriptional Control of Inflammation. *Annals of the New York Academy of Sciences*, **1994**, 723, 308-317	6.5	32
103	Measurement of S-nitrosothiols in extracellular fluids from healthy human volunteers and rheumatoid arthritis patients, using electron paramagnetic resonance spectrometry. *Free Radical Biology and Medicine*, **2005**, 39, 937-48	7.8	31
102	Changes in inflammatory gene expression induced by hyperbaric oxygen treatment in human endothelial cells under chronic wound conditions. *Experimental Cell Research*, **2012**, 318, 207-16	4.2	30
101	Peroxiredoxin V in multiple sclerosis lesions: predominant expression by astrocytes. *Multiple Sclerosis Journal*, **2007**, 13, 955-61	5	30

100	Optimisation of an Advanced Oxidation Protein Products Assay: Its Application to Studies of Oxidative Stress in Diabetes Mellitus. *Oxidative Medicine and Cellular Longevity*, **2015**, 2015, 496271	6.7	29
99	Thrombin in inflammation and healing: relevance to rheumatoid arthritis. *Annals of the Rheumatic Diseases*, **1994**, 53, 72-9	2.4	29
98	A modified form of low-density lipoprotein with increased electronegative charge is present in rheumatoid arthritis synovial fluid. *Free Radical Biology and Medicine*, **1997**, 22, 705-10	7.8	28
97	Graphene Oxide-Based Targeting of Extracellular Cathepsin D and Cathepsin L As A Novel Anti-Metastatic Enzyme Cancer Therapy. *Cancers*, **2019**, 11,	6.6	27
96	7,8-Dihydro-8-oxo-2Sdeoxyguanosine present in DNA is not simply an artefact of isolation. *Carcinogenesis*, **1994**, 15, 411-3	4.6	27
95	Action of free radical generating systems upon the biological and immunological properties of caeruloplasmin. *International Journal of Biochemistry & Cell Biology*, **1984**, 16, 1273-8		27
94	Dietary nitrate accelerates postexercise muscle metabolic recovery and O2 delivery in hypoxia. *Journal of Applied Physiology*, **2014**, 117, 1460-70	3.7	25
93	Lymphocytes from rheumatoid arthritis patients have elevated levels of intracellular peroxiredoxin 2, and a greater frequency of cells with exofacial peroxiredoxin 2, compared with healthy human lymphocytes. *International Journal of Biochemistry and Cell Biology*, **2012**, 44, 1223-31	5.6	25
92	The effect of substance P on nitric oxide release in a rheumatoid arthritis model. *Inflammation Research*, **2006**, 55, 236-40	7.2	25
91	Thrombin receptor expression in rheumatoid and osteoarthritic synovial tissue. *Annals of the Rheumatic Diseases*, **1996**, 55, 841-3	2.4	25
90	Copper-induced LDL peroxidation investigated by 1H-NMR spectroscopy. *Lipids and Lipid Metabolism*, **1995**, 1256, 130-40		24
89	Inactivation of synovial fluid alpha 1-antitrypsin by exercise of the inflamed rheumatoid joint. *FEBS Letters*, **1993**, 321, 274-8	3.8	24
88	Increased proteolytic cleavage of alpha 1-antitrypsin (alpha 1-proteinase inhibitor) in knee-joint synovial fluid from patients with rheumatoid arthritis. *Biochemical Society Transactions*, **1990**, 18, 898-9	5.1	24
87	Cysteine-cystine redox cycling in a gold-gold dual-plate generator-collector microtrench sensor. *Analytical Chemistry*, **2014**, 86, 6748-52	7.8	22
86	Hyperbaric oxygen treatment reduces neutrophil-endothelial adhesion in chronic wound conditions through S-nitrosation. *Wound Repair and Regeneration*, **2013**, 21, 860-8	3.6	22
85	Inflammation Protocols **2003**,		22
84	Detection and isolation of human serum autoantibodies that recognize oxidatively modified autoantigens. *Free Radical Biology and Medicine*, **2013**, 57, 79-91	7.8	21
83	Influence of N-acetylcysteine administration on pulmonary O□uptake kinetics and exercise tolerance in humans. *Respiratory Physiology and Neurobiology*, **2011**, 175, 121-9	2.8	21

82	Xanthine oxidase: four roles for the enzyme in rheumatoid pathology. *Biochemical Society Transactions*, **1997**, 25, 812-6	5.1	21
81	Formation and role of plasma S-nitrosothiols in liver ischemia-reperfusion injury. *Free Radical Biology and Medicine*, **2007**, 42, 882-92	7.8	21
80	Oxidative stress and its control: a pathogenetic role in inflammatory joint disease. *Biochemical Society Transactions*, **1993**, 21, 371-5	5.1	21
79	A possible role for ferritin during inflammation. *Free Radical Research Communications*, **1985**, 1, 101-9		21
78	Activation of NF-kappaB in human osteoblasts by stimulators of bone resorption. *FEBS Letters*, **1999**, 460, 315-20	3.8	20
77	Investigating the bioavailability of graphene quantum dots in lung tissues via Fourier transform infrared spectroscopy. *Interface Focus*, **2018**, 8, 20170054	3.9	19
76	Determining the site of spin trapping of the equine myoglobin radical by combined use of EPR, electrophoretic purification, and mass spectrometry. *Chemical Research in Toxicology*, **2002**, 15, 1589-94	4	19
75	Non-caeruloplasmin-bound copper (‘phenanthroline copper’) is not detectable in fresh serum or synovial fluid from patients with rheumatoid arthritis. *Biochemical Journal*, **1987**, 247, 245-6	3.8	18
74	Activation of the transcription factor NF-kappaB in the rat air pouch model of inflammation. *Annals of the Rheumatic Diseases*, **2000**, 59, 303-7	2.4	17
73	Lipid peroxidation and Parkinson’s disease. *Lancet, The*, **1986**, 2, 870-1	40	17
72	Nitrite/nitrate detection in serum based on dual-plate generator-collector currents in a microtrench. *Talanta*, **2015**, 131, 228-35	6.2	16
71	Reactive oxygen/nitrogen species and acute inflammation: A physiological process **2000**, 11-16		16
70	Effect of nitrate supplementation on hepatic blood flow and glucose homeostasis: a double-blind, placebo-controlled, randomized control trial. *American Journal of Physiology - Renal Physiology*, **2016**, 311, G356-64	5.1	16
69	Influence of inflammation and nitric oxide upon platelet aggregation following deposition of diesel exhaust particles in the airways. *British Journal of Pharmacology*, **2017**, 174, 2130-2139	8.6	15
68	Lowering of blood pressure after nitrate-rich vegetable consumption is abolished with the co-ingestion of thiocyanate-rich vegetables in healthy normotensive males. *Nitric Oxide - Biology and Chemistry*, **2018**, 74, 39-46	5	15
67	Impact of theophylline/corticosteroid combination therapy on sputum hydrogen sulfide levels in patients with COPD. *European Respiratory Journal*, **2014**, 43, 1504-6	13.6	15
66	Monocyte activation drives preservation of membrane thiols by promoting release of oxidised membrane moieties via extracellular vesicles. *Free Radical Biology and Medicine*, **2017**, 108, 56-65	7.8	14
65	Improvement in blood pressure after short-term inorganic nitrate supplementation is attenuated in cigarette smokers compared to non-smoking controls. *Nitric Oxide - Biology and Chemistry*, **2016**, 61, 29-37	5	14

64	Different oxygen treatment pressures alter inflammatory gene expression in human endothelial cells. *Undersea and Hyperbaric Medicine*, **2013**, 40, 115-23	0.9	14
63	Changes in apoptotic gene expression in lymphocytes from rheumatoid arthritis and systemic lupus erythematosus patients compared with healthy lymphocytes. *Journal of Clinical Immunology*, **2010**, 30, 649-58	5.7	13
62	Ascorbate promotes low density lipoprotein oxidation in the presence of ferritin. *Lipids and Lipid Metabolism*, **1996**, 1304, 223-8		13
61	An imaginative approach to synovitis--the role of hypoxic reperfusion damage in arthritis. *Journal of rheumatology Supplement, The*, **1993**, 37, 26-31		13
60	Relationship Between Urinary Nitrate Excretion and Blood Pressure in the InChianti Cohort. *American Journal of Hypertension*, **2017**, 30, 707-712	2.3	12
59	Bleomycin-induced unscheduled DNA synthesis in non-permeabilized human and rat hepatocytes is not paralleled by 8-oxo-7,8-dihydrodeoxyguanosine formation. *Biochemical Pharmacology*, **1992**, 44, 1255-60	6	12
58	A high-sensitivity electrochemiluminescence-based ELISA for the measurement of the oxidative stress biomarker, 3-nitrotyrosine, in human blood serum and cells. *Free Radical Biology and Medicine* , **2018**, 120, 246-254	7.8	11
57	The natural organosulfur compound dipropyltetrasulfide prevents HOCl-induced systemic sclerosis in the mouse. *Arthritis Research and Therapy*, **2013**, 15, R167	5.7	11
56	Detection and measurement of reactive oxygen intermediates in mitochondria and cells. *Methods in Molecular Biology*, **2008**, 476, 29-50	1.4	11
55	Characterization of the radical product formed from the reaction of nitric oxide with the spin trap 3,5-dibromo-4-nitrosobenzene sulfonate. *Nitric Oxide - Biology and Chemistry*, **2001**, 5, 116-27	5	11
54	Copper chelation and the neuro-ophthalmic toxicity of desferrioxamine. *Lancet, The*, **1986**, 2, 1279	40	11
53	The hydroxypyridinone iron chelator CP94 increases methyl-aminolevulinate-based photodynamic cell killing by increasing the generation of reactive oxygen species. *Redox Biology*, **2016**, 9, 90-99	11.3	10
52	Altered cellular redox homeostasis and redox responses under standard oxygen cell culture conditions versus physioxia. *Free Radical Biology and Medicine*, **2018**, 126, 322-333	7.8	10
51	Free radical pathways in the inflammatory response. *New Comprehensive Biochemistry*, **1994**, 361-383		10
50	An automated method for the kinetic measurement of ferroxidase activity. *Annals of Clinical Biochemistry*, **1988**, 25 (Pt 3), 250-4	2.2	10
49	Hyperbaric oxygen treatment induces platelet aggregation and protein release, without altering expression of activation molecules. *Clinical Biochemistry*, **2009**, 42, 467-76	3.5	9
48	Hydrogen peroxide and tumour necrosis factor-alpha induce NF-kappaB-DNA binding in primary human T lymphocytes in addition to T cell lines. *Free Radical Research*, **2001**, 35, 681-91	4	9
47	Free Radicals and Inflammation **2000**,		9

46	Nitrite determination in human plasma and synovial fluid using reactions of nitric oxide with 3, 5-dibromo-4-nitrosobenzenesulphonate (DBNBS). *Biochimica Et Biophysica Acta - General Subjects*, **1999**, 1427, 276-86	4	9
45	Relationship between alpha 1-antitrypsin inactivation and tumor necrosis factor alpha concentration in the synovial fluid of patients with rheumatoid arthritis. *Arthritis and Rheumatism*, **1994**, 37, 1723-6		9
44	Nuclear transcription factors: potential targets for new modes of intervention in skin disease. *British Journal of Dermatology*, **1994**, 131, 591-7	4	9
43	Analysis of nitrite and nitrate in the study of inflammation. *Methods in Molecular Biology*, **2003**, 225, 305-20	1.4	8
42	Inactivation of antithrombin III in synovial fluid from patients with rheumatoid arthritis. *Annals of the Rheumatic Diseases*, **1998**, 57, 162-5	2.4	7
41	Plasma S-nitrosothiol status in neonatal calves: ontogenetic associations with tissue-specific S-nitrosylation and nitric oxide synthase. *Experimental Biology and Medicine*, **2007**, 232, 309-22	3.7	7
40	Influence of iodide ingestion on nitrate metabolism and blood pressure following short-term dietary nitrate supplementation in healthy normotensive adults. *Nitric Oxide - Biology and Chemistry* , **2017**, 63, 13-20	5	6
39	Analysis of radicals and radical reaction products in cell signalling and biomolecular damage: the long hard road to gold-standard measures. *Biochemical Society Transactions*, **2011**, 39, 1217-20	5.1	6
38	Measurement of both native and inactivated forms of alpha1 proteinase inhibitor in human inflammatory extracellular fluids. *Journal of Clinical Periodontology*, **2003**, 30, 795-801	7.7	6
37	Advances in understanding the genetic basis of rheumatoid arthritis and osteoarthritis: implications for therapy. *Molecular Diagnosis and Therapy*, **2002**, 2, 223-34		6
36	Lipoprotein oxidation and induction of ferroxidase activity in stored human extracellular fluids. *Free Radical Research Communications*, **1989**, 5, 227-35		6
35	Renal nitrate clearance in chronic kidney disease. *Nitric Oxide - Biology and Chemistry*, **2020**, 97, 16-19	5	5
34	Oxidative Stress in Rheumatoid Arthritis **2013**, 145-167		5
33	Boron-Doped Diamond Dual-Plate Deep-Microtrench Device for Generator-Collector Sulfide Sensing. *Electroanalysis*, **2015**, 27, 2645-2653	3	5
32	A novel hybrid promoter responsive to pathophysiological and pharmacological regulation. *Journal of Molecular Medicine*, **2012**, 90, 401-11	5.5	5
31	Purity of different preparations of sodium 3,5-dibromo-4-nitrosobenzenesulphonate and their applicability for EPR spin trapping. *Free Radical Research*, **2003**, 37, 41-9	4	5
30	Reaction of the spin trap 3,5-dibromo-4-nitrosobenzene sulfonate with human biofluids. *Biochimica Et Biophysica Acta - General Subjects*, **2002**, 1572, 133-42	4	5
29	A panel of oxidative stress assays does not provide supplementary diagnostic information in Behcet's disease patients. *Journal of Inflammation*, **2012**, 9, 13	6.7	4

28	Reply to Lundberg, Larsen, and Weitzberg. *Journal of Applied Physiology*, **2011**, 111, 619	3.7	4
27	Structure and Function of the Human Peroxiredoxin-Based Antioxidant System: the Interplay between Peroxiredoxins, Thioredoxins, Thioredoxin Reductases, Sulfiredoxins and Sestrins143-179		4
26	Determination of S-nitrosothiols in biological and clinical samples using electron paramagnetic resonance spectrometry with spin trapping. *Methods in Enzymology*, **2008**, 441, 151-60	1.7	4
25	Key Stages in the Acute Inflammatory Response and Their Relevance as Therapeutic Targets **2003**, 3-6		4
24	Movement disorder associated with abnormal copper metabolism and decreased blood antioxidants. *Journal of Neurology, Neurosurgery and Psychiatry*, **1987**, 50, 1234-5	5.5	4
23	Inflammatory mediators, free radicals and gene transcription **2000**, 83-98		4
22	Network analysis of nitrate-sensitive oral microbiome reveals interactions with cognitive function and cardiovascular health across dietary interventions. *Redox Biology*, **2021**, 41, 101933	11.3	4
21	Dietary Nitrate Reduces Blood Pressure And Improves Walking Economy And Cognitive Function In Older People. *Medicine and Science in Sports and Exercise*, **2016**, 48, 257	1.2	3
20	The Chemical Basis of Biological Redox Control63-122		3
19	S-nitrosothiols, and other products of nitrate metabolism, are increased in multiple human blood compartments following ingestion of beetroot juice. *Redox Biology*, **2021**, 43, 101974	11.3	3
18	Biomarkers for diagnosis of acute appendicitis in adults. *The Cochrane Library*, **2015**,	5.2	2
17	Is Hydrogen Sulfide a Regulator of Nitric Oxide Bioavailability in the Vasculature?293-316		2
16	Redox Control in Human Disease with a Special Emphasis on the Peroxiredoxin-Based Antioxidant System409-431		2
15	Mechanisms of alpha 1-antitrypsin inactivation in arthritic joints: comment on the article by Abbink et al. *Arthritis and Rheumatism*, **1994**, 37, 150-1		2
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