Matthew Whiteman

List of Publications by Year
in descending order

204 papers	19,080 citations	10373 72 h-index	12258 133 g-index
250 all docs	250 docs citations	250 times ranked	18490 citing authors

#	Article	IF	Citations
1	Measuring reactive species and oxidative damagein vivoand in cell culture: how should you do it and what do the results mean?. British Journal of Pharmacology, 2004, 142, 231-255.	2.7	1,839
2	Hydrogen sulfide is a novel mediator of lipopolysaccharideâ€induced inflammation in the mouse. FASEB Journal, 2005, 19, 1196-1198.	0.2	755
3	Characterization of a Novel, Water-Soluble Hydrogen Sulfideâ€“Releasing Molecule (GYY4137). Circulation, 2008, 117, 2351-2360.	1.6	741
4	The novel neuromodulator hydrogen sulfide: an endogenous peroxynitrite 'scavenger'?. Journal of Neurochemistry, 2004, 90, 765-768.	2.1	545
5	Chlorinative stress: An under appreciated mediator of neurodegeneration?. Cellular Signalling, 2007, 19, 219-228.	1.7	499
6	The gastrointestinal tract: A major site of antioxidant action?. Free Radical Research, 2000, 33, 819-830.	1.5	438
7	Blueberry-induced changes in spatial working memory correlate with changes in hippocampal CREB phosphorylation and brain-derived neurotrophic factor (BDNF) levels. Free Radical Biology and Medicine, 2008, 45, 295-305.	1.3	379
8	Bioactive S-alk(en)yl cysteine sulfoxide metabolites in the genus Allium: the chemistry of potential therapeutic agents. Natural Product Reports, 2005, 22, 351.	5.2	372
9	Evidence for the formation of a novel nitrosothiol from the gaseous mediators nitric oxide and hydrogen sulphide. Biochemical and Biophysical Research Communications, 2006, 343, 303-310.	1.0	350
10	The Effect of Hydrogen Sulfide Donors on Lipopolysaccharide-Induced Formation of Inflammatory Mediators in Macrophages. Antioxidants and Redox Signaling, 2010, 12, 1147-1154.	2.5	314
11	Regulation of vascular nitric oxide in vitro and in vivo ; a new role for endogenous hydrogen sulphide?. British Journal of Pharmacology, 2006, 149, 625-634.	2.7	311
12	Hydrogen sulphide: a novel inhibitor of hypochlorous acid-mediated oxidative damage in the brain?. Biochemical and Biophysical Research Communications, 2005, 326, 794-798.	1.0	297
13	A Review of Hydrogen Sulfide Synthesis, Metabolism, and Measurement: Is Modulation of Hydrogen Sulfide a Novel Therapeutic for Cancer?. Antioxidants and Redox Signaling, 2019, 31, 1-38.	2.5	293
14	Emerging role of hydrogen sulfide in health and disease: critical appraisal of biomarkers and pharmacological tools. Clinical Science, 2011, 121, 459-488.	1.8	272
15	Hydrogen sulfide and inflammation: the good, the bad, the ugly and the promising. Expert Review of Clinical Pharmacology, 2011, 4, 13-32.	1.3	262
16	Nitric oxide and peroxynitrite. The ugly, the uglier and the not so good. Free Radical Research, 1999, 31, 651-669.	1.5	256
17	Hydrogen sulfide: environmental factor or signalling molecule?. Plant, Cell and Environment, 2013, 36, 1607-1616.	2.8	241
18	Hydrogen sulfide and the vasculature: a novel vasculoprotective entity and regulator of nitric oxide bioavailability?. Journal of Cellular and Molecular Medicine, 2009, 13, 488-507.	1.6	236

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19	Selective Persulfide Detection Reveals Evolutionarily Conserved Antiaging Effects of S-Sulfhydration. Cell Metabolism, 2019, 30, 1152-1170.e13.	7.2	236
20	AP39, a novel mitochondria-targeted hydrogen sulfide donor, stimulates cellular bioenergetics, exerts cytoprotective effects and protects against the loss of mitochondrial DNA integrity in oxidatively stressed endothelial cells in vitro. Nitric Oxide - Biology and Chemistry, 2014, 41, 120-130.	1.2	225
21	GYY4137, a novel hydrogen sulfide-releasing molecule, protects against endotoxic shock in the rat. Free Radical Biology and Medicine, 2009, 47, 103-113.	1.3	220
22	Antioxidants in Chinese herbal medicines: a biochemical perspective. Natural Product Reports, 2004, 21, 478.	5.2	206
23	Adiposity is a major determinant of plasma levels of the novel vasodilator hydrogen sulphide. Diabetologia, 2010, 53, 1722-1726.	2.9	205
24	Hydrogen sulfide and its possible roles in myocardial ischemia in experimental rats. Journal of Applied Physiology, 2007, 102, 261-268.	1.2	204
25	Oxidative stress in autoimmune rheumatic diseases. Free Radical Biology and Medicine, 2018, 125, 3-14.	1.3	204
26	A novel hydrogen sulfide donor causes stomatal opening and reduces nitric oxide accumulation. Plant Physiology and Biochemistry, 2010, 48, 931-935.	2.8	196
27	Hydrogen sulfide and cell signaling: Team player or referee?. Plant Physiology and Biochemistry, 2014, 78, 37-42.	2.8	190
28	Improved tag-switch method reveals that thioredoxin acts as depersulfidase and controls the intracellular levels of protein persulfidation. Chemical Science, 2016, 7, 3414-3426.	3.7	175
29	Hydrogen sulfide and nitric oxide interactions in inflammation. Nitric Oxide - Biology and Chemistry, 2014, 41, 38-47.	1.2	173
30	Ultrasound stimulates nitric oxide and prostaglandin e 2 production by human osteoblasts. Bone, 2002, 31, 236-241.	1.4	171
31	Streptozotocin-induced diabetes in the rat is associated with enhanced tissue hydrogen sulfide biosynthesis. Biochemical and Biophysical Research Communications, 2005, 333, 1146-1152.	1.0	171
32	A Reassessment of the Peroxynitrite Scavenging Activity of Uric Acid. Annals of the New York Academy of Sciences, 2002, 962, 242-259.	1.8	161
33	Protection Against Peroxynitrite-Dependent Tyrosine Nitration and Î±₁-Antiproteinase Inactivation by Ascorbic Acid. A Comparison with other Biological Antioxidants. Free Radical Research, 1996, 25, 275-283.	1.5	157
34	Hypochlorous Acid-Induced Base Modifications in Isolated Calf Thymus DNA. Chemical Research in Toxicology, 1997, 10, 1240-1246.	1.7	157
35	Hypochlorous acid induces apoptosis of cultured cortical neurons through activation of calpains and rupture of lysosomes. Journal of Neurochemistry, 2006, 98, 1597-1609.	2.1	133
36	The role of H2S bioavailability in endothelial dysfunction. Trends in Pharmacological Sciences, 2015, 36, 568-578.	4.0	131

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37	Oxidative impairment in scrapie-infected mice is associated with brain metals perturbations and altered antioxidant activities. Journal of Neurochemistry, 2008, 79, 689-698.	2.1	130
38	Characterization of antioxidant and antiglycation properties and isolation of active ingredients from traditional chinese medicines. Free Radical Biology and Medicine, 2004, 36, 1575-1587.	1.3	126
39	Hydrogen sulfide is neuroprotective in Alzheimerâ€™s disease by sulfhydrating GSK3Î² and inhibiting Tau hyperphosphorylation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	124
40	Raised levels of F2-isoprostanes and prostaglandin F2alpha in different rheumatic diseases. Annals of the Rheumatic Diseases, 2001, 60, 627-631.	0.5	121
41	Hydrogen sulfide signaling: interactions with nitric oxide and reactive oxygen species. Annals of the New York Academy of Sciences, 2016, 1365, 5-14.	1.8	120
42	The novel mitochondria-targeted hydrogen sulfide (H 2 S) donors AP123 and AP39 protect against hyperglycemic injury in microvascular endothelial cells in vitro. Pharmacological Research, 2016, 113, 186-198.	3.1	120
43	Antioxidant Action of Ergothioneine: Assessment of Its Ability to Scavenge Peroxynitrite. Biochemical and Biophysical Research Communications, 1997, 231, 389-391.	1.0	118
44	Hydrogen sulfide induced neuronal death occurs via glutamate receptor and is associated with calpain activation and lysosomal rupture in mouse primary cortical neurons. Neuropharmacology, 2007, 53, 505-514.	2.0	112
45	Hypochlorous acid-mediated mitochondrial dysfunction and apoptosis in human hepatoma HepG2 and human fetal liver cells: role of mitochondrial permeability transition. Free Radical Biology and Medicine, 2005, 38, 1571-1584.	1.3	108
46	Broccoli and watercress suppress matrix metalloproteinase-9 activity and invasiveness of human MDA-MB-231 breast cancer cells. Toxicology and Applied Pharmacology, 2005, 209, 105-113.	1.3	107
47	Nitrite-induced deamination and hypochlorite-induced oxidation of DNA in intact human respiratory tract epithelial cells. Free Radical Biology and Medicine, 2000, 28, 1039-1050.	1.3	105
48	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.	1.6	104
49	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.	3.5	104
50	5-S-Cysteinyl-conjugates of catecholamines induce cell damage, extensive DNA base modification and increases in caspase-3 activity in neurons. Journal of Neurochemistry, 2002, 81, 122-129.	2.1	103
51	Effects of purified herbal extract of Salvia miltiorrhiza on ischemic rat myocardium after acute myocardial infarction. Life Sciences, 2005, 76, 2849-2860.	2.0	101
52	The complex effects of the slowâ€releasing hydrogen sulfide donor <scp>GYY</scp>4137 in a model of acute joint inflammation and in human cartilage cells. Journal of Cellular and Molecular Medicine, 2013, 17, 365-376.	1.6	100
53	Cell Guidance in Tissue Engineering: SDF-1 Mediates Site-Directed Homing of Mesenchymal Stem Cells within Three-Dimensional Polycaprolactone Scaffolds. Tissue Engineering, 2007, 13, 2615-2624.	4.9	99
54	A high-throughput and sensitive methodology for the quantification of urinary 8-hydroxy-2â€²-deoxyguanosine: measurement with gas chromatography-mass spectrometry after single solid-phase extraction. Biochemical Journal, 2004, 380, 541-548.	1.7	98

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55	IKKÎ² programs to turn on the GADD45Î±â€“MKK4â€“JNK apoptotic cascade specifically via p50 NF-ÎºB in arsenite response. Journal of Cell Biology, 2006, 175, 607-617.	2.3	98
56	Peroxynitrite mediates calciumâ€dependent mitochondrial dysfunction and cell death via activation of calpains. FASEB Journal, 2004, 18, 1395-1397.	0.2	97
57	Proteasome inhibition by lactacystin in primary neuronal cells induces both potentially neuroprotective and pro-apoptotic transcriptional responses: a microarray analysis. Journal of Neurochemistry, 2005, 94, 943-956.	2.1	93
58	Regulation of Heart Function by Endogenous Gaseous Mediatorsâ€”Crosstalk Between Nitric Oxide and Hydrogen Sulfide. Antioxidants and Redox Signaling, 2011, 14, 2081-2091.	2.5	92
59	AP39, A Mitochondrially Targeted Hydrogen Sulfide Donor, Exerts Protective Effects in Renal Epithelial Cells Subjected to Oxidative Stress in Vitro and in Acute Renal Injury in Vivo. Shock, 2016, 45, 88-97.	1.0	89
60	Hydrogen sulfide protects colon cancer cells from chemopreventative agent Î²-phenylethyl isothiocyanate induced apoptosis. World Journal of Gastroenterology, 2005, 11, 3990.	1.4	87
61	Hydrogen sulphide reduces insulin secretion from HIT-T15 cells by a KATP channel-dependent pathway. Journal of Endocrinology, 2007, 195, 105-112.	1.2	86
62	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, 1226-1232.	1.6	85
63	The reaction of flavonoid metabolites with peroxynitrite. Biochemical and Biophysical Research Communications, 2006, 350, 960-968.	1.0	84
64	Hydrogen sulfide effects on stomatal apertures. Plant Signaling and Behavior, 2011, 6, 1444-1446.	1.2	83
65	Protection against peroxynitrite-dependent tyrosine nitration and Î± 1 -antiproteinase inactivation by oxidized and reduced lipoic acid. FEBS Letters, 1996, 379, 74-76.	1.3	79
66	Modifiedâ€release hydrocortisone for circadian therapy: a proofâ€ofâ€principle study in dexamethasoneâ€suppressed normal volunteers. Clinical Endocrinology, 2008, 68, 130-135.	1.2	79
67	Pharmacological tools for hydrogen sulphide research: a brief, introductory guide for beginners. British Journal of Pharmacology, 2015, 172, 1633-1637.	2.7	79
68	Hydrogen Sulfide Inhibits Proliferation and Release of IL-8 from Human Airway Smooth Muscle Cells. American Journal of Respiratory Cell and Molecular Biology, 2011, 45, 746-752.	1.4	77
69	Cytochrome c Reduction by H₂S Potentiates Sulfide Signaling. ACS Chemical Biology, 2018, 13, 2300-2307.	1.6	76
70	The Coenzyme Q10 Analog Decylubiquinone Inhibits the Redox-activated Mitochondrial Permeability Transition. Journal of Biological Chemistry, 2003, 278, 49079-49084.	1.6	75
71	Peroxynitrite-Dependent Aromatic Hydroxylation and Nitration of Salicylate and Phenylalanine. Is Hydroxyl Radical Involved?. Free Radical Research, 1997, 26, 71-82.	1.5	73
72	Factors Affecting the Ascorbate- and Phenolic-dependent Generation of Hydrogen Peroxide in Dulbecco's Modified Eagles Medium. Free Radical Research, 2003, 37, 1123-1130.	1.5	73

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73	Î²-Phenylethyl and 8-methylsulphinyloctyl isothiocyanates, constituents of watercress, suppress LPS induced production of nitric oxide and prostaglandin E2 in RAW 264.7 macrophages. Nitric Oxide - Biology and Chemistry, 2005, 12, 237-243.	1.2	72
74	Cardioprotection by H2S Donors: Nitric Oxide-Dependent and -Independent Mechanisms. Journal of Pharmacology and Experimental Therapeutics, 2016, 358, 431-440.	1.3	72
75	Prevention of Peroxynitrite-Dependent Tyrosine Nitration and Inactivation of Î±1-Antiproteinase by Antibiotics. Free Radical Research, 1997, 26, 49-56.	1.5	71
76	A Reevaluation of the Peroxynitrite Scavenging Activity of Some Dietary Phenolics. Biochemical and Biophysical Research Communications, 2000, 279, 692-699.	1.0	71
77	AP39, a mitochondria-targeting hydrogen sulfide (H₂S) donor, protects against myocardial reperfusion injury independently of salvage kinase signalling. British Journal of Pharmacology, 2017, 174, 287-301.	2.7	69
78	Thiourea and Dimethylthiourea Inhibit Peroxynitrite-Dependent Damage: Nonspecificity as Hydroxyl Radical Scavengers. Free Radical Biology and Medicine, 1997, 22, 1309-1312.	1.3	66
79	The pro-inflammatory oxidant hypochlorous acid induces Bax-dependent mitochondrial permeabilisation and cell death through AIF-/EndoG-dependent pathways. Cellular Signalling, 2007, 19, 705-714.	1.7	66
80	Hypochlorous Acid-Induced DNA Base Modification: Potentiation by Nitrite: Biomarkers of DNA Damage by Reactive Oxygen Species. Biochemical and Biophysical Research Communications, 1999, 257, 572-576.	1.0	65
81	Hydrogen Sulfide Mitigates Myocardial Infarction via Promotion of Mitochondrial Biogenesis-Dependent M2 Polarization of Macrophages. Antioxidants and Redox Signaling, 2016, 25, 268-281.	2.5	64
82	Detection of hydrogen sulfide in plasma and kneeâ€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, 146-150.	1.8	63
83	The identification of antioxidants in dark soy sauce. Free Radical Research, 2007, 41, 479-488.	1.5	60
84	The Mitochondrial Permeability Transition Regulates Cytochrome c Release for Apoptosis during Endoplasmic Reticulum Stress by Remodeling the Cristae Junction. Journal of Biological Chemistry, 2008, 283, 3476-3486.	1.6	59
85	H2S during circulatory shock: Some unresolved questions. Nitric Oxide - Biology and Chemistry, 2014, 41, 48-61.	1.2	56
86	The redox regulation of intermediary metabolism by a superoxide-aconitase rheostat. BioEssays, 2004, 26, 894-900.	1.2	55
87	Anti-oxidative stress effects of Herba leonuri on ischemic rat hearts. Life Sciences, 2005, 76, 3043-3056.	2.0	54
88	Modulation of peroxynitrite-induced fibroblast injury by hesperetin: A role for intracellular scavenging and modulation of ERK signalling. Biochemical and Biophysical Research Communications, 2006, 347, 916-923.	1.0	54
89	Hydrogen sulfide: physiological properties and therapeutic potential in ischaemia. British Journal of Pharmacology, 2015, 172, 1479-1493.	2.7	54
90	Pharmacological postconditioning against myocardial infarction with a slow-releasing hydrogen sulfide donor, GYY4137. Pharmacological Research, 2016, 111, 442-451.	3.1	54

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91	Mitochondria-targeted hydrogen sulfide attenuates endothelial senescence by selective induction of splicing factors HNRNPD and SRSF2. Aging, 2018, 10, 1666-1681.	1.4	54
92	Inhibition of hypochlorous acid-induced cellular toxicity by nitrite. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12061-12066.	3.3	53
93	Investigating the generation of hydrogen sulfide from the phosphonamidodithioate slow-release donor GYY4137. MedChemComm, 2015, 6, 1649-1655.	3.5	53
94	Phosphinodithioate and Phosphoramidodithioate Hydrogen Sulfide Donors. Handbook of Experimental Pharmacology, 2015, 230, 337-363.	0.9	52
95	Nitric oxide-releasing flurbiprofen reduces formation of proinflammatory hydrogen sulfide in lipopolysaccharide-treated rat. British Journal of Pharmacology, 2006, 147, 966-974.	2.7	51
96	Dexamethasone inhibits lipopolysaccharideâ€induced hydrogen sulphide biosynthesis in intact cells and in an animal model of endotoxic shock. Journal of Cellular and Molecular Medicine, 2009, 13, 2684-2692.	1.6	51
97	Sulfite-mediated oxidative stress in kidney cells. Kidney International, 2004, 65, 393-402.	2.6	50
98	Leptin-Induced Endothelium-Dependent Vasorelaxation of Peripheral Arteries in Lean and Obese Rats: Role of Nitric Oxide and Hydrogen Sulfide. PLoS ONE, 2014, 9, e86744.	1.1	50
99	Scavenging of hydroxyl radicals but not of peroxynitrite by inhibitors and substrates of nitric oxide synthases. British Journal of Pharmacology, 1997, 122, 1702-1706.	2.7	48
100	Antioxidant Properties of S-Adenosyl-l-Methionine. Free Radical Biology and Medicine, 1997, 23, 1002-1008.	1.3	48
101	Prion protein is ubiquitinated after developing protease resistance in the brains of scrapie-infected mice. Journal of Pathology, 2004, 203, 603-608.	2.1	48
102	Cytochrome bc1 Regulates the Mitochondrial Permeability Transition by Two Distinct Pathways. Journal of Biological Chemistry, 2004, 279, 50420-50428.	1.6	47
103	Mitochondria-targeted hydrogen sulfide donor AP39 improves neurological outcomes after cardiac arrest in mice. Nitric Oxide - Biology and Chemistry, 2015, 49, 90-96.	1.2	47
104	Loss of oxidized and chlorinated bases in DNA treated with reactive oxygen species: implications for assessment of oxidative damage in vivo. Biochemical and Biophysical Research Communications, 2002, 296, 883-889.	1.0	44
105	Effects of AP39, a novel triphenylphosphonium derivatised anethole dithiolethione hydrogen sulfide donor, on rat haemodynamic parameters and chloride and calcium Cav3 and RyR2 channels. Nitric Oxide - Biology and Chemistry, 2015, 46, 131-144.	1.2	44
106	HOCl causes necrotic cell death in human monocyte derived macrophages through calcium dependent calpain activation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 420-429.	1.9	42
107	Thiols and disulphides can aggravate peroxynitrite-dependent inactivation of Î±1-antiproteinase. FEBS Letters, 1997, 414, 497-500.	1.3	41
108	DNA damage by nitrite and peroxynitrite: Protection by dietary phenols. Methods in Enzymology, 2001, 335, 296-307.	0.4	41

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109	Chronic exposure to U18666A is associated with oxidative stress in cultured murine cortical neurons. Journal of Neurochemistry, 2006, 98, 1278-1289.	2.1	40
110	Effects of natural products on ischemic heart diseases and cardiovascular system. Acta Pharmacologica Sinica, 2002, 23, 1142-51.	2.8	40
111	Î²-Phenylethyl isothiocyanate mediated apoptosis; contribution of Bax and the mitochondrial death pathway. International Journal of Biochemistry and Cell Biology, 2005, 37, 100-119.	1.2	39
112	Do Mitochondriotropic Antioxidants Prevent Chlorinative Stress-Induced Mitochondrial and Cellular Injury?. Antioxidants and Redox Signaling, 2008, 10, 641-650.	2.5	39
113	Nitrite-mediated protection against hypochlorous acid-induced chondrocyte toxicity: A novel cytoprotective role of nitric oxide in the inflamed joint?. Arthritis and Rheumatism, 2003, 48, 3140-3150.	6.7	38
114	Do Mitochondria make Nitric Oxide? No?. Free Radical Research, 2004, 38, 591-599.	1.5	38
115	Chronic exposure to U18666A induces apoptosis in cultured murine cortical neurons. Biochemical and Biophysical Research Communications, 2004, 315, 408-417.	1.0	38
116	Oxidative Damage in Mitochondrial DNA Is Not Extensive. Annals of the New York Academy of Sciences, 2005, 1042, 210-220.	1.8	38
117	Pharmacological actions of the slow release hydrogen sulfide donor GYY4137 on phenylephrine-induced tone in isolated bovine ciliary artery. Experimental Eye Research, 2013, 116, 350-354.	1.2	38
118	Involvement of Potassium Channels and Calcium-Independent Mechanisms in Hydrogen Sulfide-Induced Relaxation of Rat Mesenteric Small Arteries. Journal of Pharmacology and Experimental Therapeutics, 2015, 356, 53-63.	1.3	38
119	Nitric oxide protects against mitochondrial permeabilization induced by glutathione depletion: Role of S-nitrosylation?. Biochemical and Biophysical Research Communications, 2006, 339, 255-262.	1.0	37
120	Is Antioxidant Potential of the Mitochondrial Targeted Ubiquinone Derivative MitoQ Conserved in Cells Lacking mtDNA?. Antioxidants and Redox Signaling, 2008, 10, 651-660.	2.5	36
121	Hydrogen sulfide induces heme oxygenase-1 in human kidney cells. Acta Diabetologica, 2014, 51, 155-157.	1.2	36
122	Hydrogen sulfide inhibits aortic valve calcification in heart via regulating RUNX2 by NF-Î¹B, a link between inflammation and mineralization. Journal of Advanced Research, 2021, 27, 165-176.	4.4	36
123	Loss of 3-Nitrotyrosine on Exposure to Hypochlorous Acid: Implications for the Use of 3-Nitrotyrosine as a Bio-markerin Vivo. Biochemical and Biophysical Research Communications, 1999, 258, 168-172.	1.0	35
124	Lack of Tyrosine Nitration by Hypochlorous Acid in the Presence of Physiological Concentrations of Nitrite. Journal of Biological Chemistry, 2003, 278, 8380-8384.	1.6	35
125	Early induction of calpains in rotenone-mediated neuronal apoptosis. Neuroscience Letters, 2006, 397, 69-73.	1.0	35
126	Supplementing preservation solution with mitochondria-targeted H2S donor AP39 protects cardiac grafts from prolonged cold ischemiaâ€“reperfusion injury in heart transplantation. American Journal of Transplantation, 2019, 19, 3139-3148.	2.6	35

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127	Measurement of Reactive Oxygen Species in Cells and Mitochondria. Methods in Cell Biology, 2007, 80, 355-377.	0.5	34
128	H2S supplementation: A novel method for successful organ preservation at subnormothermic temperatures. Nitric Oxide - Biology and Chemistry, 2018, 81, 57-66.	1.2	34
129	GYY4137, a Slow-Releasing Hydrogen Sulfide Donor, Ameliorates Renal Damage Associated with Chronic Obstructive Uropathy. Journal of Urology, 2016, 196, 1778-1787.	0.2	33
130	Hydrogen Sulfide Attenuates Opioid Dependence by Suppression of Adenylate Cyclase/cAMP Pathway. Antioxidants and Redox Signaling, 2014, 20, 31-41.	2.5	32
131	Imaging the uptake of gold nanoshells in live cells using plasmon resonance enhanced four wave mixing microscopy. Optics Express, 2011, 19, 17563.	1.7	31
132	Vascular Guidance: Microstructural Scaffold Patterning for Inductive Neovascularization. Stem Cells International, 2011, 2011, 1-6.	1.2	31
133	Renal Protective Effect of Hydrogen Sulfide in Cisplatin-Induced Nephrotoxicity. Antioxidants and Redox Signaling, 2018, 29, 455-470.	2.5	31
134	Gene profiling reveals hydrogen sulphide recruits death signaling via the Nâ€methylâ€<scp>D</scp>â€aspartate receptor identifying commonalities with excitotoxicity. Journal of Cellular Physiology, 2011, 226, 1308-1322.	2.0	30
135	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, 1223-1231.	1.2	30
136	Hydrogen Sulfide Abrogates Hemoglobin-Lipid Interaction in Atherosclerotic Lesion. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-16.	1.9	29
137	Detection and isolation of human serum autoantibodies that recognize oxidatively modified autoantigens. Free Radical Biology and Medicine, 2013, 57, 79-91.	1.3	27
138	Mitochondrial hydrogen sulfide supplementation improves health in the C. elegans Duchenne muscular dystrophy model. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	27
139	The Slow-Releasing and Mitochondria-Targeted Hydrogen Sulfide (H2S) Delivery Molecule AP39 Induces Brain Tolerance to Ischemia. International Journal of Molecular Sciences, 2021, 22, 7816.	1.8	26
140	Inhibition of hypochlorous acid-induced oxidative reactions by nitrite: is nitrite an antioxidant?. Biochemical and Biophysical Research Communications, 2003, 303, 1217-1224.	1.0	24
141	Cardioprotective effects of nitroparacetamol and paracetamol in acute phase of myocardial infarction in experimental rats. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H517-H524.	1.5	24
142	Glial metabolism of quercetin reduces its neurotoxic potential. Archives of Biochemistry and Biophysics, 2008, 478, 195-200.	1.4	24
143	Inhibitory action of novel hydrogen sulfide donors on bovine isolated posterior ciliary arteries. Experimental Eye Research, 2015, 134, 73-79.	1.2	24
144	[35] Assessment of peroxynitrite scavengers in Vitro. Methods in Enzymology, 1999, 301, 333-342.	0.4	23

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145	Modulation of peroxynitrite- and hypochlorous acid-induced inactivation of Î±1 -antiproteinase by mercaptoethylguanidine. British Journal of Pharmacology, 1999, 126, 1646-1652.	2.7	22
146	Loss of 3-chlorotyrosine by inflammatory oxidants: Implications for the use of 3-chlorotyrosine as a bio-marker in vivo. Biochemical and Biophysical Research Communications, 2008, 371, 50-53.	1.0	22
147	The Mitochondria-Targeted H2S-Donor AP39 in a Murine Model of Combined Hemorrhagic Shock and Blunt Chest Trauma. Shock, 2019, 52, 230-239.	1.0	22
148	Mechanism of cell death induced by an antioxidant extract of Cratoxylum cochinchinense (YCT) in Jurkat T cells: the role of reactive oxygen species and calcium. Free Radical Biology and Medicine, 2004, 36, 1588-1611.	1.3	20
149	Intracellular glutathione protects human monocyte-derived macrophages from hypochlorite damage. Life Sciences, 2012, 90, 682-688.	2.0	20
150	Interaction of the hydrogen sulfide system with the oxytocin system in the injured mouse heart. Intensive Care Medicine Experimental, 2018, 6, 41.	0.9	20
151	An Appraisal of Developments in Allium Sulfur Chemistry: Expanding the Pharmacopeia of Garlic. Molecules, 2019, 24, 4006.	1.7	20
152	Impact of theophylline/corticosteroid combination therapy on sputum hydrogen sulfide levels in patients with COPD. European Respiratory Journal, 2014, 43, 1504-1506.	3.1	19
153	Hydrogen sulfide inhibits calcification of heart valves; implications for calcific aortic valve disease. British Journal of Pharmacology, 2020, 177, 793-809.	2.7	19
154	Increased iron staining in the cerebral cortex of cholesterol fed rabbits. Mechanisms of Ageing and Development, 2004, 125, 305-313.	2.2	18
155	Metabolic, Cardiac, and Renal Effects of the Slow Hydrogen Sulfide-Releasing Molecule GYY4137 During Resuscitated Septic Shock in Swine with Pre-Existing Coronary Artery Disease. Shock, 2017, 48, 175-184.	1.0	17
156	Inhibition of peroxynitrite-mediated cellular toxicity, tyrosine nitration, and Î±1-antiproteinase inactivation by 3-mercapto-2-methylpentan-1-ol, a novel compound isolated from Alliumcepa. Biochemical and Biophysical Research Communications, 2003, 302, 397-402.	1.0	15
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