Mark T Gladwin

List of Publications by Year
in descending order

467 papers	49,513 citations	1368 108 h-index	1851 209 g-index
476 all docs	476 docs citations	476 times ranked	34174 citing authors

#	Article	IF	Citations
1	The nitrateâ€“nitriteâ€“nitric oxide pathway in physiology and therapeutics. Nature Reviews Drug Discovery, 2008, 7, 156-167.	21.5	2,084
2	Updated Clinical Classification of Pulmonary Hypertension. Journal of the American College of Cardiology, 2009, 54, S43-S54.	1.2	1,919
3	Sickle-cell disease. Lancet, The, 2010, 376, 2018-2031.	6.3	1,794
4	Nitrite reduction to nitric oxide by deoxyhemoglobin vasodilates the human circulation. Nature Medicine, 2003, 9, 1498-1505.	15.2	1,606
5	The Clinical Sequelae of Intravascular Hemolysis and Extracellular Plasma Hemoglobin. JAMA - Journal of the American Medical Association, 2005, 293, 1653.	3.8	1,324
6	Pulmonary Hypertension as a Risk Factor for Death in Patients with Sickle Cell Disease. New England Journal of Medicine, 2004, 350, 886-895.	13.9	1,172
7	Cell-free hemoglobin limits nitric oxide bioavailability in sickle-cell disease. Nature Medicine, 2002, 8, 1383-1389.	15.2	1,096
8	Sequencing of 53,831 diverse genomes from the NHLBI TOPMed Program. Nature, 2021, 590, 290-299.	13.7	1,069
9	Deconstructing sickle cell disease: Reappraisal of the role of hemolysis in the development of clinical subphenotypes. Blood Reviews, 2007, 21, 37-47.	2.8	728
10	Nitric Oxide Scavenging by Red Blood Cell Microparticles and Cell-Free Hemoglobin as a Mechanism for the Red Cell Storage Lesion. Circulation, 2011, 124, 465-476.	1.6	674
11	Dysregulated Arginine Metabolism, Hemolysis-Associated Pulmonary Hypertension, and Mortality in Sickle Cell Disease. JAMA - Journal of the American Medical Association, 2005, 294, 81.	3.8	619
12	Cytoprotective effects of nitrite during in vivo ischemia-reperfusion of the heart and liver. Journal of Clinical Investigation, 2005, 115, 1232-1240.	3.9	585
13	Lactate dehydrogenase as a biomarker of hemolysis-associated nitric oxide resistance, priapism, leg ulceration, pulmonary hypertension, and death in patients with sickle cell disease. Blood, 2006, 107, 2279-2285.	0.6	561
14	Deoxymyoglobin Is a Nitrite Reductase That Generates Nitric Oxide and Regulates Mitochondrial Respiration. Circulation Research, 2007, 100, 654-661.	2.0	532
15	Nitrite augments tolerance to ischemia/reperfusion injury via the modulation of mitochondrial electron transfer. Journal of Experimental Medicine, 2007, 204, 2089-2102.	4.2	492
16	Enzymatic function of hemoglobin as a nitrite reductase that produces NO under allosteric control. Journal of Clinical Investigation, 2005, 115, 2099-2107.	3.9	450
17	Carbon Monoxide Poisoning: Pathogenesis, Management, and Future Directions of Therapy. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 596-606.	2.5	446
18	Hypoxia, red blood cells, and nitrite regulate NO-dependent hypoxic vasodilation. Blood, 2006, 107, 566-574.	0.6	444

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19	Intravascular hemolysis and the pathophysiology of sickle cell disease. Journal of Clinical Investigation, 2017, 127, 750-760.	3.9	435
20	Strategies to increase nitric oxide signalling in cardiovascular disease. Nature Reviews Drug Discovery, 2015, 14, 623-641.	21.5	412
21	Pulmonary Complications of Sickle Cell Disease. New England Journal of Medicine, 2008, 359, 2254-2265.	13.9	410
22	Nitrite reductase activity of myoglobin regulates respiration and cellular viability in myocardial ischemia-reperfusion injury. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10256-10261.	3.3	376
23	Inherited causes of clonal haematopoiesis in 97,691 whole genomes. Nature, 2020, 586, 763-768.	13.7	376
24	Nitrite as regulator of hypoxic signaling in mammalian physiology. Medicinal Research Reviews, 2009, 29, 683-741.	5.0	373
25	Pathophysiology of Sickle Cell Disease. Annual Review of Pathology: Mechanisms of Disease, 2019, 14, 263-292.	9.6	358
26	The biochemistry of nitric oxide, nitrite, and hemoglobin: role in blood flow regulation. Free Radical Biology and Medicine, 2004, 36, 707-717.	1.3	332
27	Sources of Vascular Nitric Oxide and Reactive Oxygen Species and Their Regulation. Physiological Reviews, 2019, 99, 311-379.	13.1	323
28	Ceruloplasmin is a NO oxidase and nitrite synthase that determines endocrine NO homeostasis. Nature Chemical Biology, 2006, 2, 486-493.	3.9	322
29	Platelet activation in patients with sickle disease, hemolysis-associated pulmonary hypertension, and nitric oxide scavenging by cell-free hemoglobin. Blood, 2007, 110, 2166-2172.	0.6	316
30	Nitrite Infusion in Humans and Nonhuman Primates. Circulation, 2007, 116, 1821-1831.	1.6	313
31	Pulmonary Arterial Hypertension. Circulation Research, 2014, 115, 115-130.	2.0	306
32	Nitric oxide's reactions with hemoglobin: a view through the SNO-storm. Nature Medicine, 2003, 9, 496-500.	15.2	282
33	Nitrite as a vascular endocrine nitric oxide reservoir that contributes to hypoxic signaling, cytoprotection, and vasodilation. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2026-H2035.	1.5	276
34	Hemolysis-associated endothelial dysfunction mediated by accelerated NO inactivation by decompartmentalized oxyhemoglobin. Journal of Clinical Investigation, 2005, 115, 3409-3417.	3.9	275
35	Diastolic Dysfunction Is an Independent Risk Factor for Death in Patients With Sickle Cell Disease. Journal of the American College of Cardiology, 2007, 49, 472-479.	1.2	265
36	Regional Cerebral Hyperperfusion and Nitric Oxide Pathway Dysregulation in Fabry Disease. Circulation, 2001, 104, 1506-1512.	1.6	264

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37	Inhaled nebulized nitrite is a hypoxia-sensitive NO-dependent selective pulmonary vasodilator. Nature Medicine, 2004, 10, 1122-1127.	15.2	259
38	Unraveling the Reactions of Nitric Oxide, Nitrite, and Hemoglobin in Physiology and Therapeutics. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 697-705.	1.1	258
39	Hydroxyurea induces fetal hemoglobin by the nitric oxideâ€“dependent activation of soluble guanylyl cyclase. Journal of Clinical Investigation, 2003, 111, 231-239.	3.9	256
40	The functional nitrite reductase activity of the heme-globins. Blood, 2008, 112, 2636-2647.	0.6	253
41	Human Neuroglobin Functions as a Redox-regulated Nitrite Reductase. Journal of Biological Chemistry, 2011, 286, 18277-18289.	1.6	245
42	Hemolysis in sickle cell mice causes pulmonary hypertension due to global impairment in nitric oxide bioavailability. Blood, 2007, 109, 3088-3098.	0.6	241
43	Interventional Therapies for Acute Pulmonary Embolism: Current Status and Principles for the Development of Novel Evidence: A Scientific Statement From the American Heart Association. Circulation, 2019, 140, e774-e801.	1.6	241
44	Research Priorities for Heart Failure With Preserved Ejection Fraction. Circulation, 2020, 141, 1001-1026.	1.6	239
45	Divergent Nitric Oxide Bioavailability in Men and Women With Sickle Cell Disease. Circulation, 2003, 107, 271-278.	1.6	236
46	Nitrite Infusions to Prevent Delayed Cerebral Vasospasm in a Primate Model of Subarachnoid Hemorrhage. JAMA - Journal of the American Medical Association, 2005, 293, 1477.	3.8	234
47	The Reaction between Nitrite and Deoxyhemoglobin. Journal of Biological Chemistry, 2005, 280, 31126-31131.	1.6	229
48	Storage lesion: role of red blood cell breakdown. Transfusion, 2011, 51, 844-851.	0.8	228
49	Hemodynamic and Functional Assessment of Patients with Sickle Cell Disease and Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2007, 175, 1272-1279.	2.5	227
50	Hemoglobin and the Paracrine and Endocrine Functions of Nitric Oxide. New England Journal of Medicine, 2003, 348, 1483-1485.	13.9	219
51	Oxidases and peroxidases in cardiovascular and lung disease: New concepts in reactive oxygen species signaling. Free Radical Biology and Medicine, 2011, 51, 1271-1288.	1.3	218
52	Hospitalization for pain in patients with sickle cell disease treated with sildenafil for elevated TRV and low exercise capacity. Blood, 2011, 118, 855-864.	0.6	210
53	Sickle cell disease vasculopathy: A state of nitric oxide resistance. Free Radical Biology and Medicine, 2008, 44, 1506-1528.	1.3	208
54	SIRT3â€“AMP-Activated Protein Kinase Activation by Nitrite and Metformin Improves Hyperglycemia and Normalizes Pulmonary Hypertension Associated With Heart Failure With Preserved Ejection Fraction. Circulation, 2016, 133, 717-731.	1.6	208

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55	Catalytic generation of N2O3 by the concerted nitrite reductase and anhydrase activity of hemoglobin. Nature Chemical Biology, 2007, 3, 785-794.	3.9	206
56	Cardiovascular Abnormalities in Sickle Cell Disease. Journal of the American College of Cardiology, 2012, 59, 1123-1133.	1.2	205
57	An Official American Thoracic Society Clinical Practice Guideline: Diagnosis, Risk Stratification, and Management of Pulmonary Hypertension of Sickle Cell Disease. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 727-740.	2.5	197
58	Nitric Oxide for Inhalation in the Acute Treatment of Sickle Cell Pain Crisis. JAMA - Journal of the American Medical Association, 2011, 305, 893.	3.8	196
59	Measurement of circulating nitrite and S-nitrosothiols by reductive chemiluminescence. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 851, 93-105.	1.2	194
60	Sildenafil therapy in patients with sickle cell disease and pulmonary hypertension. British Journal of Haematology, 2005, 130, 445-453.	1.2	192
61	Levels of soluble endothelium-derived adhesion molecules in patients with sickle cell disease are associated with pulmonary hypertension, organ dysfunction, and mortality. British Journal of Haematology, 2005, 130, 943-953.	1.2	188
62	Bronchiolitis Obliterans After Allogeneic Hematopoietic Stem Cell Transplantation. JAMA - Journal of the American Medical Association, 2009, 302, 306.	3.8	186
63	Endothelial TLR4 activation impairs intestinal microcirculatory perfusion in necrotizing enterocolitis via eNOSâ€“NOâ€“nitrite signaling. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9451-9456.	3.3	186
64	Nitrite Potently Inhibits Hypoxic and Inflammatory Pulmonary Arterial Hypertension and Smooth Muscle Proliferation via Xanthine Oxidoreductaseâ€“Dependent Nitric Oxide Generation. Circulation, 2010, 121, 98-109.	1.6	185
65	Nitric oxide donor properties of hydroxyurea in patients with sickle cell disease. British Journal of Haematology, 2002, 116, 436-444.	1.2	184
66	Emerging role of nitrite in human biology. Blood Cells, Molecules, and Diseases, 2004, 32, 423-429.	0.6	181
67	Mortality in Adults With Sickle Cell Disease and Pulmonary Hypertension. JAMA - Journal of the American Medical Association, 2012, 307, 1254.	3.8	179
68	Nitrite Reductase Activity of Cytochrome c. Journal of Biological Chemistry, 2008, 283, 32590-32597.	1.6	176
69	Role of the anion nitrite in ischemia-reperfusion cytoprotection and therapeutics. Cardiovascular Research, 2007, 75, 327-338.	1.8	174
70	Nitrite Regulates Hypoxic Vasodilation via Myoglobin-Dependent Nitric Oxide Generation. Circulation, 2012, 126, 325-334.	1.6	173
71	The relationship between the severity of hemolysis, clinical manifestations and risk of death in 415 patients with sickle cell anemia in the US and Europe. Haematologica, 2013, 98, 464-472.	1.7	170
72	N-Terminal Pro-Brain Natriuretic Peptide Levels and Risk of Death in Sickle Cell Disease. JAMA - Journal of the American Medical Association, 2006, 296, 310.	3.8	169

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73	The New Chemical Biology of Nitrite Reactions with Hemoglobin: R-State Catalysis, Oxidative Denitrosylation, and Nitrite Reductase/Anhydrase. Accounts of Chemical Research, 2009, 42, 157-167.	7.6	167
74	Nitric Oxide Deficiency and Endothelial Dysfunction in Pulmonary Arterial Hypertension. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 639-646.	2.5	165
75	Elevated tricuspid regurgitant jet velocity in children and adolescents with sickle cell disease: association with hemolysis and hemoglobin oxygen desaturation. Haematologica, 2009, 94, 340-347.	1.7	164
76	Ethnicity, sex, and age are determinants of red blood cell storage and stress hemolysis: results of the REDS-III RBC-Omics study. Blood Advances, 2017, 1, 1132-1141.	2.5	164
77	Nitric Oxide Scavenging by Red Blood Cells as a Function of Hematocrit and Oxygenation. Journal of Biological Chemistry, 2005, 280, 39024-39032.	1.6	162
78	Association Between Hemodynamic Markers of Pulmonary Hypertension and Outcomes in Heart Failure With Preserved Ejection Fraction. JAMA Cardiology, 2018, 3, 298.	3.0	162
79	Reactive oxygen and nitrogen species in pulmonary hypertension. Free Radical Biology and Medicine, 2012, 52, 1970-1986.	1.3	161
80	The reaction between nitrite and hemoglobin: the role of nitrite in hemoglobin-mediated hypoxic vasodilation. Journal of Inorganic Biochemistry, 2005, 99, 237-246.	1.5	157
81	Nitrite Anion Provides Potent Cytoprotective and Antiapoptotic Effects as Adjunctive Therapy to Reperfusion for Acute Myocardial Infarction. Circulation, 2008, 117, 2986-2994.	1.6	157
82	Nitrite Therapy After Cardiac Arrest Reduces Reactive Oxygen Species Generation, Improves Cardiac and Neurological Function, and Enhances Survival via Reversible Inhibition of Mitochondrial Complex I. Circulation, 2009, 120, 897-905.	1.6	156
83	Mortality increases after massive exchange transfusion with older stored blood in canines with experimental pneumonia. Blood, 2013, 121, 1663-1672.	0.6	156
84	Chronic Hyper-Hemolysis in Sickle Cell Anemia: Association of Vascular Complications and Mortality with Less Frequent Vasoocclusive Pain. PLoS ONE, 2008, 3, e2095.	1.1	152
85	Metabolic Syndrome and the Lung. Chest, 2016, 149, 1525-1534.	0.4	148
86	The measurement of blood and plasma nitrite by chemiluminescence: Pitfalls and solutions. Free Radical Biology and Medicine, 2006, 41, 541-548.	1.3	145
87	Biological activity of nitric oxide in the plasmatic compartment. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11477-11482.	3.3	144
88	Heme Oxygenase-1 Deficiency Accelerates Formation of Arterial Thrombosis Through Oxidative Damage to the Endothelium, Which Is Rescued by Inhaled Carbon Monoxide. Circulation Research, 2007, 101, 893-901.	2.0	144
89	S-Nitrosohemoglobin Is Unstable in the Reductive Erythrocyte Environment and Lacks O2/NO-linked Allosteric Function. Journal of Biological Chemistry, 2002, 277, 27818-27828.	1.6	143
90	Hemolysis and cell-free hemoglobin drive an intrinsic mechanism for human disease. Journal of Clinical Investigation, 2012, 122, 1205-1208.	3.9	143

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91	Pulmonary Complications of Sickle Cell Disease. American Journal of Respiratory and Critical Care Medicine, 2012, 185, 1154-1165.	2.5	143
92	Concerted Nitric Oxide Formation and Release from the Simultaneous Reactions of Nitrite with Deoxy- and Oxyhemoglobin. Journal of Biological Chemistry, 2007, 282, 12916-12927.	1.6	141
93	Effect of eculizumab on haemolysisâ€associated nitric oxide depletion, dyspnoea, and measures of pulmonary hypertension in patients with paroxysmal nocturnal haemoglobinuria. British Journal of Haematology, 2010, 149, 414-425.	1.2	137
94	Nitrite Reductase and Nitric-oxide Synthase Activity of the Mitochondrial Molybdopterin Enzymes mARC1 and mARC2. Journal of Biological Chemistry, 2014, 289, 10345-10358.	1.6	136
95	Pulmonary vascular endothelium: the orchestra conductor in respiratory diseases. European Respiratory Journal, 2018, 51, 1700745.	3.1	136
96	Mechanisms of nitrite bioactivation. Nitric Oxide - Biology and Chemistry, 2014, 38, 58-68.	1.2	129
97	An emerging role for nitric oxide in sickle cell disease vascular homeostasis and therapy. Current Opinion in Hematology, 2003, 10, 99-107.	1.2	126
98	Amplified Expression Profiling of Platelet Transcriptome Reveals Changes in Arginine Metabolic Pathways in Patients With Sickle Cell Disease. Circulation, 2007, 115, 1551-1562.	1.6	126
99	Echocardiographic Markers of Elevated Pulmonary Pressure and Left Ventricular Diastolic Dysfunction Are Associated With Exercise Intolerance in Adults and Adolescents With Homozygous Sickle Cell Anemia in the United States and United Kingdom. Circulation, 2011, 124, 1452-1460.	1.6	124
100	Enterosalivary nitrate metabolism and the microbiome: Intersection of microbial metabolism, nitric oxide and diet in cardiac and pulmonary vascular health. Free Radical Biology and Medicine, 2017, 105, 48-67.	1.3	123
101	Testosteroneâ€dependent sex differences in red blood cell hemolysis in storage, stress, and disease. Transfusion, 2016, 56, 2571-2583.	0.8	118
102	Chronic sickle cell lung disease: new insights into the diagnosis, pathogenesis and treatment of pulmonary hypertension. British Journal of Haematology, 2005, 129, 449-464.	1.2	115
103	Storage lesion in banked blood due to hemolysis-dependent disruption of nitric oxide homeostasis. Current Opinion in Hematology, 2009, 16, 515-523.	1.2	115
104	Exercise capacity and haemodynamics in patients with sickle cell disease with pulmonary hypertension treated with bosentan: results of the ASSET studies. British Journal of Haematology, 2010, 149, 426-435.	1.2	114
105	Severity of pulmonary hypertension during vaso-occlusive pain crisis and exercise in patients with sickle cell disease. British Journal of Haematology, 2007, 136, 319-325.	1.2	109
106	Relative systemic hypertension in patients with sickle cell disease is associated with risk of pulmonary hypertension and renal insufficiency. American Journal of Hematology, 2008, 83, 15-18.	2.0	108
107	Inhaled nitric oxide augments nitric oxide transport on sickle cell hemoglobin without affecting oxygen affinity. Journal of Clinical Investigation, 1999, 104, 937-945.	3.9	108
108	Risk Factors for Death in 632 Patients with Sickle Cell Disease in the United States and United Kingdom. PLoS ONE, 2014, 9, e99489.	1.1	107

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109	Vasculopathy and pulmonary hypertension in sickle cell disease. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L314-L324.	1.3	106
110	Circulating Blood Endothelial Nitric Oxide Synthase Contributes to the Regulation of Systemic Blood Pressure and Nitrite Homeostasis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1861-1871.	1.1	105
111	Cardiovascular complications and risk of death in sickle-cell disease. Lancet, The, 2016, 387, 2565-2574.	6.3	105
112	Erythrocytes and Vascular Function: Oxygen and Nitric Oxide. Frontiers in Physiology, 2018, 9, 125.	1.3	104
113	Crises in Sickle Cell Disease. Chest, 2016, 149, 1082-1093.	0.4	100
114	AltitudeOmics: Red Blood Cell Metabolic Adaptation to High Altitude Hypoxia. Journal of Proteome Research, 2016, 15, 3883-3895.	1.8	98
115	Copper dependence of the biotin switch assay: Modified assay for measuring cellular and blood nitrosated proteins. Free Radical Biology and Medicine, 2008, 44, 1362-1372.	1.3	97
116	Differences in the clinical and genotypic presentation of sickle cell disease around the world. Paediatric Respiratory Reviews, 2014, 15, 4-12.	1.2	97
117	Risk factors for mortality in adult patients with sickle cell disease: a meta-analysis of studies in North America and Europe. Haematologica, 2017, 102, 626-636.	1.7	97
118	Cannulation of the internal jugular vein: Is postprocedural chest radiography always necessary?. Critical Care Medicine, 1999, 27, 1819-1823.	0.4	96
119	Nitric Oxide and Arginine Dysregulation: A Novel Pathway to Pulmonary Hypertension in Hemolytic Disorders. Current Molecular Medicine, 2008, 8, 620-632.	0.6	95
120	Lung vaso-occlusion in sickle cell disease mediated by arteriolar neutrophil-platelet microemboli. JCI Insight, 2017, 2, e89761.	2.3	95
121	Donor sex, age and ethnicity impact stored red blood cell antioxidant metabolism through mechanisms in part explained by glucose 6-phosphate dehydrogenase levels and activity. Haematologica, 2021, 106, 1290-1302.	1.7	95
122	Nitrite and nitrate chemical biology and signalling. British Journal of Pharmacology, 2019, 176, 228-245.	2.7	94
123	PULMONARY HYPERTENSION IN SICKLE CELL DISEASE: Relevance to Children. Pediatric Hematology and Oncology, 2007, 24, 159-170.	0.3	93
124	Prevalence and risk factors for pulmonary artery systolic hypertension among sickle cell disease patients in Nigeria. American Journal of Hematology, 2008, 83, 485-490.	2.0	93
125	Sickle cell disease and pulmonary hypertension in Africa: A global perspective and review of epidemiology, pathophysiology, and management. American Journal of Hematology, 2008, 83, 63-70.	2.0	91
126	Haemoglobinuria is associated with chronic kidney disease and its progression in patients with sickle cell anaemia. British Journal of Haematology, 2014, 164, 729-739.	1.2	91

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127	Vaping-associated Acute Lung Injury: A Case Series. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 1430-1431.	2.5	91
128	Cerebrovascular disease associated with sickle cell pulmonary hypertension. American Journal of Hematology, 2006, 81, 503-510.	2.0	90
129	Erythroid DAMPs drive inflammation in SCD. Blood, 2014, 123, 3689-3690.	0.6	89
130	Dexamethasone Alters Arachidonate Release from Human Epithelial Cells by Induction of p11 Protein Synthesis and Inhibition of Phospholipase A2 Activity. Journal of Biological Chemistry, 1999, 274, 17202-17208.	1.6	87
131	Noninvasive Determination of Spatially Resolved and Time-Resolved Tissue Perfusion in Humans During Nitric Oxide Inhibition and Inhalation by Use of a Visible-Reflectance Hyperspectral Imaging Technique. Circulation, 2001, 104, 2905-2910.	1.6	87
132	NO Contest. Circulation Research, 2004, 94, 851-855.	2.0	86
133	The Perfusion Paradox and Vascular Instability in Sickle Cell Disease. Microcirculation, 2004, 11, 179-193.	1.0	86
134	Computation of plasma hemoglobin nitric oxide scavenging in hemolytic anemias. Free Radical Biology and Medicine, 2006, 41, 1557-1565.	1.3	85
135	Dietary nitrate and nitrite modulate blood and organ nitrite and the cellular ischemic stress response. Free Radical Biology and Medicine, 2009, 47, 510-517.	1.3	84
136	Markers of Severe Vaso-Occlusive Painful Episode Frequency in Children and Adolescents with Sickle Cell Anemia. Journal of Pediatrics, 2012, 160, 286-290.	0.9	84
137	Nitric oxide scavenging by red cell microparticles. Free Radical Biology and Medicine, 2013, 65, 1164-1173.	1.3	82
138	The hydrogen highway to reperfusion therapy. Nature Medicine, 2007, 13, 673-674.	15.2	81
139	Nitrite in pulmonary arterial hypertension: therapeutic avenues in the setting of dysregulated arginine/nitric oxide synthase signalling. Cardiovascular Research, 2011, 89, 542-552.	1.8	81
140	Fatty acid nitroalkenes ameliorate glucose intolerance and pulmonary hypertension in high-fat diet-induced obesity. Cardiovascular Research, 2014, 101, 352-363.	1.8	81
141	Nitrite-generated NO circumvents dysregulated arginine/NOS signaling to protect against intimal hyperplasia in Sprague-Dawley rats. Journal of Clinical Investigation, 2011, 121, 1646-1656.	3.9	81
142	Measurements of nitric oxide on the heme iron and Â-93 thiol of human hemoglobin during cycles of oxygenation and deoxygenation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11303-11308.	3.3	79
143	Haemoglobin: NO transporter, NO inactivator or NOne of the above?. Trends in Pharmacological Sciences, 2002, 23, 406-411.	4.0	78
144	Nitrite mediates cytoprotection after ischemia/reperfusion by modulating mitochondrial function. Basic Research in Cardiology, 2009, 104, 113-119.	2.5	78

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145	Nitrite and nitrate-dependent generation of anti-inflammatory fatty acid nitroalkenes. Free Radical Biology and Medicine, 2015, 89, 333-341.	1.3	78
146	Bad Blood: The risks of red cell storage. Nature Medicine, 2010, 16, 381-382.	15.2	77
147	Measurement of Nitric Oxide Levels in the Red Cell. Journal of Biological Chemistry, 2006, 281, 26994-27002.	1.6	76
148	Deconstructing endothelial dysfunction: soluble guanylyl cyclase oxidation and the NO resistance syndrome. Journal of Clinical Investigation, 2006, 116, 2330-2332.	3.9	76
149	Kidney Disease among Patients with Sickle Cell Disease, Hemoglobin SS and SC. Clinical Journal of the American Society of Nephrology: CJASN, 2016, 11, 207-215.	2.2	75
150	Low-dose intravenous nitrite improves hemodynamics in a canine model of acute pulmonary thromboembolism. Free Radical Biology and Medicine, 2006, 41, 1764-1770.	1.3	74
151	Evolution of Novel Small-Molecule Therapeutics Targeting Sickle Cell Vasculopathy. JAMA - Journal of the American Medical Association, 2008, 300, 2638.	3.8	74
152	Strategic Plan for Lung Vascular Research. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 1554-1562.	2.5	73
153	Cytochrome b5 Reductase 3 Modulates Soluble Guanylate Cyclase Redox State and cGMP Signaling. Circulation Research, 2017, 121, 137-148.	2.0	73
154	Disorders of Ciliary Motility. American Journal of the Medical Sciences, 2001, 321, 3-10.	0.4	72
155	Pulmonary Hypertension in Hemolytic Disorders. Chest, 2010, 137, 30S-38S.	0.4	71
156	Elevated tricuspid regurgitation velocity and decline in exercise capacity over 22 months of follow up in children and adolescents with sickle cell anemia. Haematologica, 2011, 96, 33-40.	1.7	71
157	Heterogeneity of blood processing and storage additives in different centers impacts stored red blood cell metabolism as much as storage time: lessons from REDSâ€IIIâ€”Omics. Transfusion, 2019, 59, 89-100.	0.8	71
158	Endothelin receptor antagonists for pulmonary hypertension in adult patients with sickle cell disease. British Journal of Haematology, 2009, 147, 737-743.	1.2	69
159	14-3-3 Binding and Phosphorylation of Neuroglobin during Hypoxia Modulate Six-to-Five Heme Pocket Coordination and Rate of Nitrite Reduction to Nitric Oxide. Journal of Biological Chemistry, 2011, 286, 42679-42689.	1.6	69
160	Plasma thrombospondinâ€1 is increased during acute sickle cell vasoâ€occlusive events and associated with acute chest syndrome, hydroxyurea therapy, and lower hemolytic rates. American Journal of Hematology, 2012, 87, 326-330.	2.0	68
161	Selective Recapitulation of Conserved and Nonconserved Regions of Putative NOXA1 Protein Activation Domain Confers Isoform-specific Inhibition of Nox1 Oxidase and Attenuation of Endothelial Cell Migration. Journal of Biological Chemistry, 2013, 288, 36437-36450.	1.6	68
162	Sulfite Oxidase Catalyzes Single-Electron Transfer at Molybdenum Domain to Reduce Nitrite to Nitric Oxide. Antioxidants and Redox Signaling, 2015, 23, 283-294.	2.5	68

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163	Mechanisms of Human Erythrocytic Bioactivation of Nitrite. Journal of Biological Chemistry, 2015, 290, 1281-1294.	1.6	67
164	Pathogenesis and treatment of acute chest syndrome of sickle-cell anaemia. Lancet, The, 2000, 355, 1476-1478.	6.3	66
165	Nitrite Signaling in Pulmonary Hypertension: Mechanisms of Bioactivation, Signaling, and Therapeutics. Antioxidants and Redox Signaling, 2013, 18, 1797-1809.	2.5	66
166	Characterization of Right Ventricular Remodeling in Pulmonary Hypertension Associated With Patient Outcomes by 3-Dimensional Wall Motion Tracking Echocardiography. Circulation: Cardiovascular Imaging, 2015, 8, .	1.3	66
167	Effects of Aged Stored Autologous Red Blood Cells on Human Endothelial Function. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 1223-1233.	2.5	66
168	Dietary Nitrate and the Epidemiology of Cardiovascular Disease: Report From a National Heart, Lung, and Blood Institute Workshop. Journal of the American Heart Association, 2016, 5, .	1.6	66
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