Timothy J Mcmahon

List of Publications by Year
in descending order

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66	4,927	236833 25	133188 59
papers	citations	h-index	g-index

70	70	70	4360
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Blood Flow Regulation by S-Nitrosohemoglobin in the Physiological Oxygen Gradient. Science, 1997, 276, 2034-2037.	6.0	1,030
2	Evolution of adverse changes in stored RBCs. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17063-17068.	3.3	572
3	Essential Roles of S-Nitrosothiols in Vascular Homeostasis and Endotoxic Shock. Cell, 2004, 116, 617-628.	13.5	504
4	S-nitrosylation in health and disease. Trends in Molecular Medicine, 2003, 9, 160-168.	3.5	503
5	Nitric oxide in the human respiratory cycle. Nature Medicine, 2002, 8, 711-717.	15.2	445
6	Bronchodilator S-nitrosothiol deficiency in asthmatic respiratory failure. Lancet, The, 1998, 351, 1317-1319.	6.3	203
7	Hemoglobin conformation couples erythrocyte S-nitrosothiol content to O2 gradients. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5709-5714.	3.3	187
8	Functional Coupling of Oxygen Binding and Vasoactivity inS-Nitrosohemoglobin. Journal of Biological Chemistry, 2000, 275, 16738-16745.	1.6	128
9	A nitric oxide processing defect of red blood cells created by hypoxia: Deficiency of S-nitrosohemoglobin in pulmonary hypertension. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14801-14806.	3.3	123
10	In Vivo Gene Transfer of Nitric Oxide Synthase Enhances Vasomotor Function in Carotid Arteries From Normal and Cholesterol-Fed Rabbits. Circulation, 1998, 98, 1905-1911.	1.6	85
11	S-nitrosothiol repletion by an inhaled gas regulates pulmonary function. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5792-5797.	3.3	73
12	Extrapulmonary Effects of Inhaled Nitric Oxide: Role of Reversible S-Nitrosylation of Erythrocytic Hemoglobin. Proceedings of the American Thoracic Society, 2006, 3, 153-160.	3.5	72
13	[11] Concerted nitric oxide/oxygen delivery by hemoglobin. Methods in Enzymology, 1999, 301, 99-114.	0.4	70
14	Impaired adenosine-5â€²-triphosphate release from red blood cells promotes their adhesion to endothelial cells: A mechanism of hypoxemia after transfusion*. Critical Care Medicine, 2011, 39, 2478-2486.	0.4	63
15	Transport and Peripheral Bioactivities of Nitrogen Oxides Carried by Red Blood Cell Hemoglobin: Role in Oxygen Delivery. Physiology, 2007, 22, 97-112.	1.6	53
16	S-nitrosoglutathione inhibits Î±1-adrenergic receptor-mediated vasoconstriction and ligand binding in pulmonary artery. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 290, L136-L143.	1.3	44
17	Excitation-Contraction Coupling in Airway Smooth Muscle. Journal of Biological Chemistry, 2006, 281, 30143-30151.	1.6	43
18	Oxygen Regulation of Tumor Perfusion by S -Nitrosohemoglobin Reveals a Pressor Activity of Nitric Oxide. Circulation Research, 2005, 96, 1119-1126.	2.0	42

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19	Redox Activation of Intracellular Calcium Release Channels (Ryanodine Receptors) in the Sustained Phase of Hypoxia-Induced Pulmonary Vasoconstriction. Chest, 2005, 128, 556S-558S.	0.4	39
20	Red Blood Cell Deformability, Vasoactive Mediators, and Adhesion. Frontiers in Physiology, 2019, 10, 1417.	1.3	38
21	HGT in the human and skin commensal Malassezia : A bacterially derived flavohemoglobin is required for NO resistance and host interaction. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15884-15894.	3.3	37
22	Hemoglobin and Nitric Oxide. New England Journal of Medicine, 2003, 349, 402-405.	13.9	35
23	Randomized study of washing 40â€•to 42â€dayâ€stored red blood cells. Transfusion, 2014, 54, 2544-2552.	0.8	29
24	Inhaled Nitric Oxide Therapy Increases Blood Nitrite, Nitrate, and S-Nitrosohemoglobin Concentrations in Infants with Pulmonary Hypertension. Journal of Pediatrics, 2012, 160, 245-251.	0.9	27
25	Proteomic analysis of the NOS2 interactome in human airway epithelial cells. Nitric Oxide - Biology and Chemistry, 2013, 34, 37-46.	1.2	27
26	Pulmonary vasoconstriction by serotonin is inhibited byS-nitrosoglutathione. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2002, 282, L1057-L1065.	1.3	25
27	Impact of transfusion of autologous 7â€•versus 42â€dayâ€old ASâ€3 red blood cells on tissue oxygenation and the microcirculation in healthy volunteers. Transfusion, 2012, 52, 2459-2464.	0.8	25
28	Red blood cell phenotype fidelity following glycerol cryopreservation optimized for research purposes. PLoS ONE, 2018, 13, e0209201.	1.1	25
29	Pannexin 1 channels control the hemodynamic response to hypoxia by regulating O₂-sensitive extracellular ATP in blood. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1055-H1065.	1.5	24
30	Treatment-Related Biomarkers in Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2015, 52, 663-673.	1.4	23
31	Pulmonary alveolar epithelial uptake of S-nitrosothiols is regulated by L-type amino acid transporter. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L38-L43.	1.3	22
32	Restoration of intracellular ATP production in banked red blood cells improves inducible ATP export and suppresses RBC-endothelial adhesion. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1737-H1744.	1.5	20
33	Automated measurement of blood flow velocity and direction and hemoglobin oxygen saturation in the rat lung using intravital microscopy. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 304, L86-L91.	1.3	19
34	Renitrosylation of banked human red blood cells improves deformability and reduces adhesivity. Transfusion, 2015, 55, 2452-2463.	0.8	19
35	Generation and Export of Red Blood Cell ATP in Health and Disease. Frontiers in Physiology, 2021, 12, 754638.	1.3	18
36	Comparison of responses to pituitary adenylate cyclase activating peptides 38 and 27 in the pulmonary vascular bed of the cat. European Journal of Pharmacology, 1993, 243, 79-82.	1.7	17

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37	Parallel assay of oxygen equilibria of hemoglobin. Analytical Biochemistry, 2013, 441, 63-68.	1.1	16
38	Influence of lemakalim on the pulmonary vascular bed of the cat. European Journal of Pharmacology, 1991, 202, 101-104.	1.7	15
39	Transport rather than diffusion-dependent route for nitric oxide gas activity in alveolar epithelium. Free Radical Biology and Medicine, 2010, 49, 294-300.	1.3	15
40	A Novel Inhaled Organic Nitrate That Affects Pulmonary Vascular Tone in a Piglet Model of Hypoxia-Induced Pulmonary Hypertension. Pediatric Research, 2005, 58, 531-536.	1.1	14
41	Liberation of ATP secondary to hemolysis is not mutually exclusive of regulated export. Blood, 2015, 125, 1844-1845.	0.6	14
42	Transpulmonary Flux of S-Nitrosothiols and Pulmonary Vasodilation during Nitric Oxide Inhalation. American Journal of Respiratory Cell and Molecular Biology, 2012, 47, 37-43.	1.4	13
43	Blockade of thromboxane/endoperoxide receptor-mediated responses in the pulmonary vascular bed of the cat by sulotroban. European Journal of Pharmacology, 1992, 213, 1-7.	1.7	11
44	S-nitrosohemoglobin is distinguished from other nitrosovasodilators by unique oxygen-dependent responses that support an allosteric mechanism of action. Blood, 2003, 102, 410-411.	0.6	11
45	Biomarkers in Pulmonary Vascular Disease: Gauging Response to Therapy. American Journal of Cardiology, 2017, 120, S89-S95.	0.7	11
46	Pulmonary vasodilator responses to RP 52891 are mediated by activation of a glibenclamide-sensitive KATP+ channel. European Journal of Pharmacology, 1991, 202, 121-124.	1.7	9
47	Nitric Oxide Mediates Relative Airway Hyporesponsiveness to Lipopolysaccharide in Surfactant Protein Aâ€“Deficient Mice. American Journal of Respiratory Cell and Molecular Biology, 2011, 44, 175-184.	1.4	9
48	Drebrin regulates angiotensin II-induced aortic remodelling. Cardiovascular Research, 2018, 114, 1806-1815.	1.8	9
49	Nitric oxide loading reduces sickle red cell adhesion and vaso-occlusion in vivo. Blood Advances, 2019, 3, 2586-2597.	2.5	9
50	Physician Subsidies for Tobacco Advertising. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 246-246.	2.5	8
51	Antagonists of the system L neutral amino acid transporter (LAT) promote endothelial adhesivity of human red blood cells. Thrombosis and Haemostasis, 2017, 117, 1402-1411.	1.8	7
52	S -Nitrosylated fetal hemoglobin in neonatal human blood. Biochemical and Biophysical Research Communications, 2016, 473, 1084-1089.	1.0	6
53	Effects of repleting organic phosphates in banked erythrocytes on plasma metabolites and vasoactive mediators after red cell exchange transfusion in sickle cell disease. Blood Transfusion, 2020, 18, 200-207.	0.3	4
54	Platelets promote pulmonary pull of polys. Blood, 2015, 126, 2174-2175.	0.6	3

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55	Treatment-related biomarkers in pulmonary hypertension patients on oral therapies. Respiratory Research, 2020, 21, 304.	1.4	3
56	A 3D-printed transfusion platform reveals beneficial effects of normoglycemic erythrocyte storage solutions and a novel rejuvenating solution. Lab on A Chip, 2022, 22, 1310-1320.	3.1	3
57	The Main Players: Hemoglobin and Myoglobin; Nitric Oxide and Oxygen. , 0, , 47-62.		2
58	Hypoxic Vasodilation by Red Blood Cells and Impairment in Vascular Disorders.. Blood, 2004, 104, 1585-1585.	0.6	1
59	Influence of SQ 29,548 on vasoconstrictor responses in the hindquarters vascular bed of the cat. Prostaglandins Leukotrienes and Essential Fatty Acids, 1991, 44, 83-88.	1.0	0
60	The Opprobrium of Big Tobacco. American Journal of Respiratory and Critical Care Medicine, 2012, 185, 1030-1030.	2.5	0
61	The Respiratory Cycle. , 2000, , 243-249.		0
62	Red Blood Cell S-Nitrosohemoglobin Deficiency in Pulmonary Arterial Hypertension.. Blood, 2004, 104, 1583-1583.	0.6	0
63	Restoring Endogenous Nitric Oxide in Sickle or Transfused Red Cells Ameliorates Adhesion and Vaso-Occlusion in Vivo. Blood, 2012, 120, 3251-3251.	0.6	0
64	Impact of Augmenting Intracellular ATP on the Inducible Release of ATP from Banked Erythrocytes. FASEB Journal, 2013, 27, 1147.3.	0.2	0
65	Paradoxical Effects Of Tumor Necrosis Factor-Alpha On Endothelial Adhesion Of Stored Human Red Blood Cells. Blood, 2013, 122, 2399-2399.	0.6	0
66	THE EFFECT OF HYPERBARIC OXYGEN ON PULMONARY VASCULAR TONE. Anesthesiology, 1998, 89, 1374A.	1.3	0