

# Timothy J McMahon

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64  
papers

4,258  
citations

22  
h-index

65  
g-index

70  
ext. papers

4,611  
ext. citations

8.8  
avg, IF

4.81  
L-index

#	Paper	IF	Citations
64	Blood flow regulation by S-nitrosohemoglobin in the physiological oxygen gradient. <i>Science</i> , <b>1997</b> , 276, 2034-7	33.3	932
63	Evolution of adverse changes in stored RBCs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 17063-8	11.5	476
62	S-nitrosylation in health and disease. <i>Trends in Molecular Medicine</i> , <b>2003</b> , 9, 160-8	11.5	451
61	Essential roles of S-nitrosothiols in vascular homeostasis and endotoxic shock. <i>Cell</i> , <b>2004</b> , 116, 617-28	56.2	448
60	Nitric oxide in the human respiratory cycle. <i>Nature Medicine</i> , <b>2002</b> , 8, 711-7	50.5	391
59	Bronchodilator S-nitrosothiol deficiency in asthmatic respiratory failure. <i>Lancet, The</i> , <b>1998</b> , 351, 1317-9	40	192
58	Hemoglobin conformation couples erythrocyte S-nitrosothiol content to O <sub>2</sub> gradients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 5709-14	11.5	164
57	Functional coupling of oxygen binding and vasoactivity in S-nitrosohemoglobin. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 16738-45	5.4	115
56	A nitric oxide processing defect of red blood cells created by hypoxia: deficiency of S-nitrosohemoglobin in pulmonary hypertension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 14801-6	11.5	113
55	In vivo gene transfer of nitric oxide synthase enhances vasomotor function in carotid arteries from normal and cholesterol-Fed rabbits. <i>Circulation</i> , <b>1998</b> , 98, 1905-11	16.7	73
54	S-nitrosothiol repletion by an inhaled gas regulates pulmonary function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 5792-7	11.5	67
53	Concerted nitric oxide/oxygen delivery by hemoglobin. <i>Methods in Enzymology</i> , <b>1999</b> , 301, 99-114	1.7	64
52	Extrapulmonary effects of inhaled nitric oxide: role of reversible S-nitrosylation of erythrocytic hemoglobin. <i>Proceedings of the American Thoracic Society</i> , <b>2006</b> , 3, 153-60		59
51	Impaired adenosine-5Triphosphate release from red blood cells promotes their adhesion to endothelial cells: a mechanism of hypoxemia after transfusion. <i>Critical Care Medicine</i> , <b>2011</b> , 39, 2478-86	1.4	57
50	Transport and peripheral bioactivities of nitrogen oxides carried by red blood cell hemoglobin: role in oxygen delivery. <i>Physiology</i> , <b>2007</b> , 22, 97-112	9.8	44
49	S-nitrosoglutathione inhibits alpha1-adrenergic receptor-mediated vasoconstriction and ligand binding in pulmonary artery. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2006</b> , 290, L136-43	5.8	41
48	Oxygen regulation of tumor perfusion by S-nitrosohemoglobin reveals a pressor activity of nitric oxide. <i>Circulation Research</i> , <b>2005</b> , 96, 1119-26	15.7	38

47	Redox activation of intracellular calcium release channels (ryanodine receptors) in the sustained phase of hypoxia-induced pulmonary vasoconstriction. <i>Chest</i> , <b>2005</b> , 128, 556S-558S	5.3	35
46	Excitation-contraction coupling in airway smooth muscle. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 30143-51	5.4	31
45	Hemoglobin and nitric oxide. <i>New England Journal of Medicine</i> , <b>2003</b> , 349, 402-5; author reply 402-5	59.2	30
44	Pulmonary vasoconstriction by serotonin is inhibited by S-nitrosoglutathione. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2002</b> , 282, L1057-65	5.8	24
43	Randomized study of washing 40- to 42-day-stored red blood cells. <i>Transfusion</i> , <b>2014</b> , 54, 2544-52	2.9	22
42	Inhaled nitric oxide therapy increases blood nitrite, nitrate, and s-nitrosohemoglobin concentrations in infants with pulmonary hypertension. <i>Journal of Pediatrics</i> , <b>2012</b> , 160, 245-51	3.6	21
41	Proteomic analysis of the NOS2 interactome in human airway epithelial cells. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2013</b> , 34, 37-46	5	20
40	Treatment-related biomarkers in pulmonary hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2015</b> , 52, 663-73	5.7	20
39	Impact of transfusion of autologous 7- versus 42-day-old AS-3 red blood cells on tissue oxygenation and the microcirculation in healthy volunteers. <i>Transfusion</i> , <b>2012</b> , 52, 2459-64	2.9	19
38	Pulmonary alveolar epithelial uptake of S-nitrosothiols is regulated by L-type amino acid transporter. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2008</b> , 295, L38-43	5.8	19
37	Automated measurement of blood flow velocity and direction and hemoglobin oxygen saturation in the rat lung using intravital microscopy. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2013</b> , 304, L86-91	5.8	18
36	Restoration of intracellular ATP production in banked red blood cells improves inducible ATP export and suppresses RBC-endothelial adhesion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2014</b> , 307, H1737-44	5.2	16
35	Comparison of responses to pituitary adenylate cyclase activating peptides 38 and 27 in the pulmonary vascular bed of the cat. <i>European Journal of Pharmacology</i> , <b>1993</b> , 243, 79-82	5.3	16
34	Influence of lemakalim on the pulmonary vascular bed of the cat. <i>European Journal of Pharmacology</i> , <b>1991</b> , 202, 101-4	5.3	15
33	Liberation of ATP secondary to hemolysis is not mutually exclusive of regulated export. <i>Blood</i> , <b>2015</b> , 125, 1844-5	2.2	14
32	Renitrosylation of banked human red blood cells improves deformability and reduces adhesivity. <i>Transfusion</i> , <b>2015</b> , 55, 2452-63	2.9	14
31	Transport rather than diffusion-dependent route for nitric oxide gas activity in alveolar epithelium. <i>Free Radical Biology and Medicine</i> , <b>2010</b> , 49, 294-300	7.8	14
30	Red Blood Cell Deformability, Vasoactive Mediators, and Adhesion. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 1417	4.6	14

29	A novel inhaled organic nitrate that affects pulmonary vascular tone in a piglet model of hypoxia-induced pulmonary hypertension. <i>Pediatric Research</i> , <b>2005</b> , 58, 531-6	3.2	13
28	HGT in the human and skin commensal : A bacterially derived flavohemoglobin is required for NO resistance and host interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 15884-15894	11.5	12
27	Red blood cell phenotype fidelity following glycerol cryopreservation optimized for research purposes. <i>PLoS ONE</i> , <b>2018</b> , 13, e0209201	3.7	12
26	Parallel assay of oxygen equilibria of hemoglobin. <i>Analytical Biochemistry</i> , <b>2013</b> , 441, 63-8	3.1	11
25	S-nitrosohemoglobin is distinguished from other nitrosovasodilators by unique oxygen-dependent responses that support an allosteric mechanism of action. <i>Blood</i> , <b>2003</b> , 102, 410-1; author reply 412-3	2.2	11
24	Transpulmonary flux of S-nitrosothiols and pulmonary vasodilation during nitric oxide inhalation: role of transport. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2012</b> , 47, 37-43	5.7	10
23	Blockade of thromboxane/endoperoxide receptor-mediated responses in the pulmonary vascular bed of the cat by sulotroban. <i>European Journal of Pharmacology</i> , <b>1992</b> , 213, 1-7	5.3	10
22	Biomarkers in Pulmonary Vascular Disease: Gauging Response to Therapy. <i>American Journal of Cardiology</i> , <b>2017</b> , 120, S89-S95	3	9
21	Pannexin 1 channels control the hemodynamic response to hypoxia by regulating O-sensitive extracellular ATP in blood. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2021</b> , 320, H1055-H1065	5.2	9
20	Pulmonary vasodilator responses to RP 52891 are mediated by activation of a glibenclamide-sensitive K <sup>+</sup> ATP channel. <i>European Journal of Pharmacology</i> , <b>1991</b> , 202, 121-4	5.3	8
19	Physician subsidies for tobacco advertising. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2006</b> , 173, 246	10.2	7
18	Antagonists of the system L neutral amino acid transporter (LAT) promote endothelial adhesivity of human red blood cells. <i>Thrombosis and Haemostasis</i> , <b>2017</b> , 117, 1402-1411	7	6
17	Nitric oxide mediates relative airway hyporesponsiveness to lipopolysaccharide in surfactant protein A-deficient mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2011</b> , 44, 175-84	5.7	6
16	Drebrin regulates angiotensin II-induced aortic remodelling. <i>Cardiovascular Research</i> , <b>2018</b> , 114, 1806-1815	3.5	5
15	Nitric oxide loading reduces sickle red cell adhesion and vaso-occlusion in vivo. <i>Blood Advances</i> , <b>2019</b> , 3, 2586-2597	7.8	5
14	Generation and Export of Red Blood Cell ATP in Health and Disease. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 754638	4.6	4
13	S-Nitrosylated fetal hemoglobin in neonatal human blood. <i>Biochemical and Biophysical Research Communications</i> , <b>2016</b> , 473, 1084-1089	3.4	4
12	Platelets promote pulmonary pull of polys. <i>Blood</i> , <b>2015</b> , 126, 2174-5	2.2	2

11	Effects of repleting organic phosphates in banked erythrocytes on plasma metabolites and vasoactive mediators after red cell exchange transfusion in sickle cell disease. <i>Blood Transfusion</i> , <b>2020</b> , 18, 200-207	3.6	2
10	Treatment-related biomarkers in pulmonary hypertension patients on oral therapies. <i>Respiratory Research</i> , <b>2020</b> , 21, 304	7.3	2
9	Hypoxic Vasodilation by Red Blood Cells and Impairment in Vascular Disorders.. <i>Blood</i> , <b>2004</b> , 104, 1585-1585	15.85	1
8	The Main Players: Hemoglobin and Myoglobin; Nitric Oxide and Oxygen	47-62	1
7	The opprobrium of Big Tobacco. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2012</b> , 185, 1030	10.2	
6	Influence of SQ 29,548 on vasoconstrictor responses in the hindquarters vascular bed of the cat. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>1991</b> , 44, 83-8	2.8	
5	The Respiratory Cycle	2000, 243-249	
4	Red Blood Cell S-Nitrosohemoglobin Deficiency in Pulmonary Arterial Hypertension.. <i>Blood</i> , <b>2004</b> , 104, 1583-1583	2.2	
3	Restoring Endogenous Nitric Oxide in Sickle or Transfused Red Cells Ameliorates Adhesion and Vaso-Occlusion in Vivo. <i>Blood</i> , <b>2012</b> , 120, 3251-3251	2.2	
2	Impact of Augmenting Intracellular ATP on the Inducible Release of ATP from Banked Erythrocytes. <i>FASEB Journal</i> , <b>2013</b> , 27, 1147.3	0.9	
1	Paradoxical Effects Of Tumor Necrosis Factor-Alpha On Endothelial Adhesion Of Stored Human Red Blood Cells. <i>Blood</i> , <b>2013</b> , 122, 2399-2399	2.2	