List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Nitrite reduction to nitric oxide by deoxyhemoglobin vasodilates the human circulation. Nature<br>Medicine, 2003, 9, 1498-1505.   | 30.7 | 1,606     |
| 2  | Hydrogen sulfide mediates the vasoactivity of garlic. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17977-17982.  | 7.1  | 724       |
| 3  | Cytoprotective effects of nitrite during in vivo ischemia-reperfusion of the heart and liver. Journal of<br>Clinical Investigation, 2005, 115, 1232-1240.   | 8.2  | 585       |
| 4  | Enzymatic function of hemoglobin as a nitrite reductase that produces NO under allosteric control.<br>Journal of Clinical Investigation, 2005, 115, 2099-2107.  | 8.2  | 450       |
| 5  | Hypoxia, red blood cells, and nitrite regulate NO-dependent hypoxic vasodilation. Blood, 2006, 107, 566-574.  | 1.4  | 444       |
| 6  | Biological aspects of reactive nitrogen species. Biochimica Et Biophysica Acta - Bioenergetics, 1999,<br>1411, 385-400.   | 1.0  | 408       |
| 7  | Oxygen radical inhibition of nitric oxide-dependent vascular function in sickle cell disease.<br>Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 15215-15220.  | 7.1  | 356       |
| 8  | Polarographic measurement of hydrogen sulfide production and consumption by mammalian tissues.<br>Analytical Biochemistry, 2005, 341, 40-51.  | 2.4  | 338       |
| 9  | The biochemistry of nitric oxide, nitrite, and hemoglobin: role in blood flow regulation. Free Radical<br>Biology and Medicine, 2004, 36, 707-717.  | 2.9  | 332       |
| 10 | Nitrated Fatty Acids: Endogenous Anti-inflammatory Signaling Mediators*. Journal of Biological<br>Chemistry, 2006, 281, 35686-35698.  | 3.4  | 318       |
| 11 | <i>Mycobacterium tuberculosis</i> DosS is a redox sensor and DosT is a hypoxia sensor. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11568-11573.   | 7.1  | 306       |
| 12 | Nitrite as a vascular endocrine nitric oxide reservoir that contributes to hypoxic signaling,<br>cytoprotection, and vasodilation. American Journal of Physiology - Heart and Circulatory Physiology,<br>2006, 291, H2026-H2035.                          | 3.2  | 276       |
| 13 | A Causative Role for Redox Cycling of Myoglobin and Its Inhibition by Alkalinization in the<br>Pathogenesis and Treatment of Rhabdomyolysis-induced Renal Failure. Journal of Biological<br>Chemistry, 1998, 273, 31731-31737.                            | 3.4  | 234       |
| 14 | The Reaction between Nitrite and Deoxyhemoglobin. Journal of Biological Chemistry, 2005, 280, 31126-31131.  | 3.4  | 229       |
| 15 | Redox Reactions of Hemoglobin and Myoglobin: Biological and Toxicological Implications.<br>Antioxidants and Redox Signaling, 2001, 3, 313-327.  | 5.4  | 223       |
| 16 | Catalytic generation of N2O3 by the concerted nitrite reductase and anhydrase activity of hemoglobin. Nature Chemical Biology, 2007, 3, 785-794.  | 8.0  | 206       |
| 17 | A mitochondria-targeted <i>S</i> -nitrosothiol modulates respiration, nitrosates thiols, and protects<br>against ischemia-reperfusion injury. Proceedings of the National Academy of Sciences of the United<br>States of America, 2009, 106, 10764-10769. | 7.1  | 205       |
| 18 | Nitric oxide partitioning into mitochondrial membranes and the control of respiration at cytochrome c oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7212-7217.                                      | 7.1  | 203       |

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|----|---|------|-----------|
| 19 | Inhaled NO accelerates restoration of liver function in adults following orthotopic liver transplantation. Journal of Clinical Investigation, 2007, 117, 2583-2591.                                 | 8.2  | 202       |
| 20 | Cell signaling by reactive nitrogen and oxygen species in atherosclerosis. Free Radical Biology and Medicine, 2000, 28, 1780-1794.  | 2.9  | 196       |
| 21 | Pathophysiology of nitric oxide and related species: free radical reactions and modification of biomolecules. Molecular Aspects of Medicine, 1998, 19, 221-357.                                     | 6.4  | 179       |
| 22 | Nanotransducers in cellular redox signaling: modification of thiols by reactive oxygen and nitrogen species. Trends in Biochemical Sciences, 2002, 27, 489-492.                                     | 7.5  | 178       |
| 23 | Chronic sodium nitrite therapy augments ischemia-induced angiogenesis and arteriogenesis.<br>Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7540-7545. | 7.1  | 178       |
| 24 | Fatty Acid Transduction of Nitric Oxide Signaling. Journal of Biological Chemistry, 2005, 280, 19289-19297.   | 3.4  | 167       |
| 25 | Antioxidant mechanisms of isoflavones in lipid systems: paradoxical effects of peroxyl radical scavenging. Free Radical Biology and Medicine, 2001, 31, 1570-1581.                                  | 2.9  | 164       |
| 26 | Inhalation of Nitric Oxide Prevents Ischemic Brain Damage in Experimental Stroke by Selective Dilatation of Collateral Arterioles. Circulation Research, 2012, 110, 727-738.                        | 4.5  | 163       |
| 27 | The reaction between nitrite and hemoglobin: the role of nitrite in hemoglobin-mediated hypoxic vasodilation. Journal of Inorganic Biochemistry, 2005, 99, 237-246.                                 | 3.5  | 157       |
| 28 | Hydrogen sulfide mediates vasoactivity in an O2-dependent manner. American Journal of Physiology -<br>Heart and Circulatory Physiology, 2007, 292, H1953-H1960.                                     | 3.2  | 153       |
| 29 | SNO-hemoglobin is not essential for red blood cell–dependent hypoxic vasodilation. Nature Medicine,<br>2008, 14, 773-777.   | 30.7 | 145       |
| 30 | Overexpression of Endothelial Nitric Oxide Synthase Prevents Diet-Induced Obesity and Regulates Adipocyte Phenotype. Circulation Research, 2012, 111, 1176-1189.                                    | 4.5  | 134       |
| 31 | Biochemical Characterization of HumanS-Nitrosohemoglobin. Journal of Biological Chemistry, 1999, 274, 15487-15492.  | 3.4  | 123       |
| 32 | Nitric Oxide-Dependent Induction of Glutathione Synthesis through Increased Expression of Î <sup>3</sup> -Glutamylcysteine Synthetase. Archives of Biochemistry and Biophysics, 1998, 358, 74-82.   | 3.0  | 118       |
| 33 | The induction of GSH synthesis by nanomolar concentrations of NO in endothelial cells: a role for<br>γ-glutamylcysteine synthetase and γ-glutamyl transpeptidase. FEBS Letters, 1999, 448, 292-296. | 2.8  | 115       |
| 34 | Cytoprotection against Oxidative Stress and the Regulation of Glutathione Synthesis. Biological Chemistry, 2003, 384, 527-37.   | 2.5  | 114       |
| 35 | Mechanisms of Cell Signaling by Nitric Oxide and Peroxynitrite: From Mitochondria to MAP Kinases.<br>Antioxidants and Redox Signaling, 2001, 3, 215-229.  | 5.4  | 112       |
| 36 | Nitrosation of Uric Acid by Peroxynitrite. Journal of Biological Chemistry, 1998, 273, 24491-24497.   | 3.4  | 109       |

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|----|--|------|-----------|
| 37 | The Globin-based Free Radical of Ferryl Hemoglobin Is Detected in Normal Human Blood. Journal of<br>Biological Chemistry, 1997, 272, 7114-7121.  | 3.4  | 107       |
| 38 | Control of Mitochondrial Respiration by NO., Effects of Low Oxygen and Respiratory State. Journal of<br>Biological Chemistry, 2003, 278, 31603-31609.  | 3.4  | 107       |
| 39 | Hydrolysis of Acyloxy Nitroso Compounds Yields Nitroxyl (HNO). Journal of the American Chemical<br>Society, 2006, 128, 9687-9692.  | 13.7 | 105       |
| 40 | Transduction of NO-bioactivity by the red blood cell in sepsis: novel mechanisms of vasodilation during acute inflammatory disease. Blood, 2004, 104, 1375-1382.   | 1.4  | 102       |
| 41 | Dietary flavonoid quercetin stimulates vasorelaxation in aortic vessels. Free Radical Biology and<br>Medicine, 2010, 49, 339-347.  | 2.9  | 97        |
| 42 | Redox Cycling of Human Methaemoglobin by H <sub>2</sub> O <sub>2</sub> Yields Persistent Ferryl<br>Iron and Protein Based Radicals. Free Radical Research, 1996, 25, 117-123.  | 3.3  | 96        |
| 43 | Nitrite and nitrate chemical biology and signalling. British Journal of Pharmacology, 2019, 176, 228-245.  | 5.4  | 94        |
| 44 | Mechanisms of the pro- and anti-oxidant actions of nitric oxide in atherosclerosis. Cardiovascular<br>Research, 2000, 47, 465-474.   | 3.8  | 92        |
| 45 | Protein kinase B/Akt activates c-Jun NH <sub>2</sub> -terminal kinase by increasing NO production in response to shear stress. Journal of Applied Physiology, 2001, 91, 1574-1581.                                       | 2.5  | 91        |
| 46 | Formation of nanomolar concentrations of S-nitroso-albumin in human plasma by nitric oxide. Free<br>Radical Biology and Medicine, 2001, 31, 688-696.   | 2.9  | 91        |
| 47 | Chlorination and Nitration of Soy Isoflavones. Archives of Biochemistry and Biophysics, 1999, 368, 265-275.  | 3.0  | 90        |
| 48 | Reduction of Cu(II) by lipid hydroperoxides: implications for the copper-dependent oxidation of low-density lipoprotein. Biochemical Journal, 1997, 322, 425-433.  | 3.7  | 89        |
| 49 | Intercellular Adhesion Molecule-1 (ICAM-1) Regulates Endothelial Cell Motility through a Nitric<br>Oxide-dependent Pathway. Journal of Biological Chemistry, 2004, 279, 19230-19238.                                     | 3.4  | 89        |
| 50 | Endothelial heterogeneity and adhesion molecules N-glycosylation: Implications in leukocyte trafficking in inflammation. Glycobiology, 2013, 23, 622-633.  | 2.5  | 87        |
| 51 | Mechanisms of signal transduction mediated by oxidized lipids: the role of the electrophile-responsive proteome. Biochemical Society Transactions, 2004, 32, 151-155.  | 3.4  | 83        |
| 52 | Essential role of ICAM-1 in mediating monocyte adhesion to aortic endothelial cells. American Journal of Physiology - Cell Physiology, 2001, 281, C1442-C1447.   | 4.6  | 82        |
| 53 | Evidence for peroxynitrite as a signaling molecule in flow-dependent activation of c-Jun NH2-terminal<br>kinase. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H1647-H1653.              | 3.2  | 81        |
| 54 | Revealing anti-inflammatory mechanisms of soy isoflavones by flow: modulation of<br>leukocyte-endothelial cell interactions. American Journal of Physiology - Heart and Circulatory<br>Physiology, 2005, 289, H908-H915. | 3.2  | 81        |

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|----|--|------|-----------|
| 55 | Sildenafil Promotes Ischemia-Induced Angiogenesis Through a PKG-Dependent Pathway.<br>Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 1947-1954.   | 2.4  | 79        |
| 56 | Haemoglobin: NO transporter, NO inactivator or NOne of the above?. Trends in Pharmacological Sciences, 2002, 23, 406-411.  | 8.7  | 78        |
| 57 | A Novel Model of Chronic Wounds: Importance of Redox Imbalance and Biofilm-Forming Bacteria for<br>Establishment of Chronicity. PLoS ONE, 2014, 9, e109848.  | 2.5  | 76        |
| 58 | Endothelial Surface N-Glycans Mediate Monocyte Adhesion and Are Targets for Anti-inflammatory<br>Effects of Peroxisome Proliferator-activated Receptor Î <sup>3</sup> Ligands. Journal of Biological Chemistry, 2011,<br>286, 38738-38747. | 3.4  | 75        |
| 59 | A murine neonatal model of necrotizing enterocolitis caused by anemia and red blood cell transfusions. Nature Communications, 2019, 10, 3494.  | 12.8 | 74        |
| 60 | Enhanced Antioxidant Activity After Chlorination of Quercetin by Hypochlorous Acid. Alcoholism:<br>Clinical and Experimental Research, 2001, 25, 434-443.  | 2.4  | 71        |
| 61 | Hemoglobin oxygen fractional saturation regulates nitrite-dependent vasodilation of aortic ring<br>bioassays. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2565-H2572.                                   | 3.2  | 71        |
| 62 | Local Peroxynitrite Impairs Endothelial Transient Receptor Potential Vanilloid 4 Channels and Elevates Blood Pressure in Obesity. Circulation, 2020, 141, 1318-1333.   | 1.6  | 71        |
| 63 | Mechanisms of the interaction of nitroxyl with mitochondria. Biochemical Journal, 2004, 379, 359-366.  | 3.7  | 70        |
| 64 | Working with nitric oxide and hydrogen sulfide in biological systems. American Journal of Physiology<br>- Lung Cellular and Molecular Physiology, 2015, 308, L403-L415.  | 2.9  | 69        |
| 65 | Over-the-counter mouthwash use and risk of pre-diabetes/diabetes. Nitric Oxide - Biology and Chemistry, 2017, 71, 14-20.   | 2.7  | 66        |
| 66 | Biochemical aspects of the reaction of hemoglobin and NO: implications for Hb-based blood substitutes. Free Radical Biology and Medicine, 2000, 28, 1518-1525.   | 2.9  | 65        |
| 67 | Obesity, Aerobic Exercise, and Vascular Disease: The Role of Oxidant Stress. Obesity, 2002, 10, 964-968.   | 4.0  | 65        |
| 68 | Pentoxifylline attenuation of experimental hepatopulmonary syndrome. Journal of Applied Physiology, 2007, 102, 949-955.  | 2.5  | 65        |
| 69 | Polyphenols, Inflammatory Response, and Cancer Prevention: Chlorination of Isoflavones by Human<br>Neutrophils. Journal of Nutrition, 2003, 133, 3773S-3777S.  | 2.9  | 63        |
| 70 | Effects of sodium nitrite on ischemia-reperfusion injury in the rat kidney. American Journal of<br>Physiology - Renal Physiology, 2006, 290, F779-F786.  | 2.7  | 63        |
| 71 | Beyond ERα and ERÎ <sup>2</sup> : Estrogen Receptor Binding Is Only Part of the Isoflavone Story. Journal of Nutrition, 2000, 130, 656S-657S.  | 2.9  | 62        |
| 72 | Induction of glutathione synthesis by oxidized low-density lipoprotein and 1-palmitoyl-2-arachidonyl phosphatidylcholine: protection against quinone-mediated oxidative stress. Biochemical Journal, 2002, 362, 51-59.                     | 3.7  | 62        |

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|----|--|-----|-----------|
| 73 | Hemoglobin mediated nitrite activation of soluble guanylyl cyclase. Comparative Biochemistry and<br>Physiology Part A, Molecular & Integrative Physiology, 2005, 142, 130-135.   | 1.8 | 62        |
| 74 | Mechanisms of Cystic Fibrosis Transmembrane Conductance Regulator Activation by S-Nitrosoglutathione. Journal of Biological Chemistry, 2006, 281, 9190-9199.   | 3.4 | 61        |
| 75 | Anti-Inflammatory Effects of Isoflavones are Dependent on Flow and Human Endothelial Cell PPARγ.<br>Journal of Nutrition, 2007, 137, 351-356.  | 2.9 | 61        |
| 76 | Endothelial dysfunction is induced by proinflammatory oxidant hypochlorous acid. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H1469-H1475.  | 3.2 | 60        |
| 77 | The potential role of the red blood cell in nitrite-dependent regulation of blood flow.<br>Cardiovascular Research, 2011, 89, 507-515.   | 3.8 | 60        |
| 78 | Erythrocyte storage increases rates of NO and nitrite scavenging: implications for transfusion-related toxicity. Biochemical Journal, 2012, 446, 499-508.  | 3.7 | 59        |
| 79 | Role of Endothelial N-Glycan Mannose Residues in Monocyte Recruitment During Atherogenesis.<br>Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, e51-9.  | 2.4 | 58        |
| 80 | Heterogenic Endothelial Responses to Inflammation: Role for Differential <i>N</i> â€Clycosylation and<br>Vascular Bed of Origin. Journal of the American Heart Association, 2013, 2, e000263.  | 3.7 | 58        |
| 81 | Regulation of endothelial glutathione by ICAMâ€1: implications for inflammation. FASEB Journal, 2004, 18, 1321-1323.   | 0.5 | 57        |
| 82 | Reaction of S-Nitrosoglutathione with the Heme Group of Deoxyhemoglobin. Journal of Biological Chemistry, 2000, 275, 36562-36567.  | 3.4 | 55        |
| 83 | Vasoactivity of S-nitrosohemoglobin: role of oxygen, heme, and NO oxidation states. Blood, 2003, 101, 4408-4415.   | 1.4 | 55        |
| 84 | Absorbance and redox based approaches for measuring free heme and free hemoglobin in biological matrices. Redox Biology, 2016, 9, 167-177.   | 9.0 | 55        |
| 85 | Regulation of nitrite transport in red blood cells by hemoglobin oxygen fractional saturation.<br>American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1398-H1407.   | 3.2 | 54        |
| 86 | Peroxiredoxin-2 Recycling Is Inhibited During Erythrocyte Storage. Antioxidants and Redox Signaling, 2015, 22, 294-307.  | 5.4 | 52        |
| 87 | Modulation of pulmonary endothelial endothelin B receptor expression and signaling: implications<br>for experimental hepatopulmonary syndrome. American Journal of Physiology - Lung Cellular and<br>Molecular Physiology, 2007, 292, L1467-L1472. | 2.9 | 51        |
| 88 | Role of heme in lung bacterial infection after trauma hemorrhage and stored red blood cell transfusion: A preclinical experimental study. PLoS Medicine, 2018, 15, e1002522.   | 8.4 | 51        |
| 89 | Regulation of endothelial glutathione by ICAM-1 governs VEGF-A-mediated eNOS activity and angiogenesis. Free Radical Biology and Medicine, 2007, 42, 720-729.  | 2.9 | 50        |
| 90 | The apolipoprotein A-I mimetic peptide 4F prevents defects in vascular function in endotoxemic rats.<br>Journal of Lipid Research, 2010, 51, 2695-2705.  | 4.2 | 50        |

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| 91  | Current perspectives and challenges in understanding the role of nitrite as an integral player in nitric oxide biology and therapy. Free Radical Biology and Medicine, 2011, 51, 805-812.                               | 2.9 | 50        |
| 92  | Dipyridamole enhances ischaemia-induced arteriogenesis through an endocrine nitrite/nitric oxide-dependent pathway. Cardiovascular Research, 2010, 85, 661-670.   | 3.8 | 49        |
| 93  | Formation of chlorinated lipids post-chlorine gas exposure. Journal of Lipid Research, 2016, 57, 1529-1540.   | 4.2 | 49        |
| 94  | The interplay of nitric oxide and peroxynitrite with signal transduction pathways: Implications for disease. Seminars in Perinatology, 1997, 21, 351-366.   | 2.5 | 48        |
| 95  | Neutrophil myeloperoxidase chlorinates and nitrates soy isoflavones and enhances their antioxidant properties. Free Radical Biology and Medicine, 2003, 35, 1417-1430.  | 2.9 | 48        |
| 96  | Identification of a high-mannose ICAM-1 glycoform: effects of ICAM-1 hypoglycosylation on monocyte<br>adhesion and outside in signaling. American Journal of Physiology - Cell Physiology, 2013, 305,<br>C228-C237.     | 4.6 | 48        |
| 97  | Low Intensity Shear Stress Increases Endothelial ELR+ CXC Chemokine Production via a Focal Adhesion<br>Kinase-p38l² MAPK-NF-lºB Pathway. Journal of Biological Chemistry, 2009, 284, 5945-5955.                         | 3.4 | 47        |
| 98  | Mitigation of chlorine gas lung injury in rats by postexposure administration of sodium nitrite.<br>American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 300, L362-L369.                      | 2.9 | 46        |
| 99  | Chlorine Gas Exposure Causes Systemic Endothelial Dysfunction by Inhibiting Endothelial Nitric Oxide<br>Synthase–Dependent Signaling. American Journal of Respiratory Cell and Molecular Biology, 2011, 45,<br>419-425. | 2.9 | 46        |
| 100 | Antioxidant functions for the hemoglobin β93 cysteine residue in erythrocytes and in the vascular compartment in vivo. Free Radical Biology and Medicine, 2013, 55, 119-129.  | 2.9 | 46        |
| 101 | Acyloxy Nitroso Compounds as Nitroxyl (HNO) Donors: Kinetics, Reactions with Thiols, and<br>Vasodilation Properties. Journal of Medicinal Chemistry, 2011, 54, 1059-1070.   | 6.4 | 44        |
| 102 | Red blood cell age and potentiation of transfusionâ€related pathology in trauma patients. Transfusion, 2011, 51, 867-873.   | 1.6 | 44        |
| 103 | Nitric oxide formation <i>versus</i> scavenging: the red blood cell balancing act. Journal of Physiology, 2012, 590, 4993-5000.   | 2.9 | 44        |
| 104 | Mechanism of faster NO scavenging by older stored red blood cells. Redox Biology, 2014, 2, 211-219.   | 9.0 | 44        |
| 105 | Red blood cell washing, nitrite therapy, and antiheme therapies prevent stored red blood cell toxicity<br>after trauma–hemorrhage. Free Radical Biology and Medicine, 2015, 85, 207-218.                                | 2.9 | 42        |
| 106 | Hemoglobin β93 Cysteine Is Not Required for Export of Nitric Oxide Bioactivity From the Red Blood Cell.<br>Circulation, 2019, 139, 2654-2663.   | 1.6 | 42        |
| 107 | Molecular mechanisms of the copper dependent oxidation of low-density lipoprotein. Free Radical<br>Research, 1999, 30, 1-9.   | 3.3 | 41        |
| 108 | Single-Dose Pharmacokinetics of Different Oral Sodium Nitrite Formulations in Diabetes Patients.<br>Diabetes Technology and Therapeutics, 2012, 14, 552-560.  | 4.4 | 41        |

RAKESH P PATEL

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|-----|--|------|-----------|
| 109 | Endothelial NOS-dependent activation of c-Jun NH2- terminal kinase by oxidized low-density<br>lipoprotein. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H2705-H2713.  | 3.2  | 39        |
| 110 | Erythrocyte-dependent regulation of human skeletal muscle blood flow: role of varied<br>oxyhemoglobin and exercise on nitrite, S-nitrosohemoglobin, and ATP. American Journal of Physiology<br>- Heart and Circulatory Physiology, 2010, 299, H1936-H1946. | 3.2  | 39        |
| 111 | The matrikine N-α-PGP couples extracellular matrix fragmentation to endothelial permeability. Science Advances, 2015, 1, .   | 10.3 | 39        |
| 112 | Microvascular Response to Red Blood Cell Transfusion in Trauma Patients. Shock, 2012, 37, 276-281.   | 2.1  | 38        |
| 113 | Older Blood Is Associated With Increased Mortality and Adverse Events in Massively Transfused<br>Trauma Patients: Secondary Analysis of the PROPPR Trial. Annals of Emergency Medicine, 2019, 73,<br>650-661.  | 0.6  | 38        |
| 114 | Spatial mapping of SARS-CoV-2 and H1N1 lung injury identifies differential transcriptional signatures.<br>Cell Reports Medicine, 2021, 2, 100242.  | 6.5  | 38        |
| 115 | Effects of S-Nitrosation and Cross-Linking of Hemoglobin on Hypoxic Pulmonary Vasoconstriction in<br>Isolated Rat Lungs. Circulation Research, 2002, 91, 626-632.  | 4.5  | 37        |
| 116 | The Red Blood Cell and Vascular Function in Health and Disease. Antioxidants and Redox Signaling, 2004, 6, 992-999.  | 5.4  | 37        |
| 117 | The detection of the nitrite reductase and NO-generating properties of haemoglobin by mitochondrial inhibition. Cardiovascular Research, 2011, 89, 566-573.  | 3.8  | 37        |
| 118 | Effects of venous needle turbulence during ex vivo hemodialysis on endothelial morphology and nitric oxide formation. Journal of Biomechanics, 2007, 40, 2158-2166.  | 2.1  | 36        |
| 119 | A Randomized Clinical Trial Testing the Anti-Inflammatory Effects of Preemptive Inhaled Nitric Oxide in<br>Human Liver Transplantation. PLoS ONE, 2014, 9, e86053.   | 2.5  | 36        |
| 120 | The deleterious effect of red blood cell storage on microvascular response to transfusion. Journal of Trauma and Acute Care Surgery, 2013, 75, 807-812.  | 2.1  | 34        |
| 121 | Characterization of Storage-Induced Red Blood Cell Hemolysis Using Raman Spectroscopy. Laboratory<br>Medicine, 2018, 49, 298-310.  | 1.2  | 34        |
| 122 | Assessment of endothelial glycocalyx disruption in term parturients receiving a fluid bolus before spinal anesthesia: a prospective observational study. International Journal of Obstetric Anesthesia, 2014, 23, 330-334.                                 | 0.4  | 33        |
| 123 | Activation of c-Jun N-Terminal Kinase and Apoptosis in Endothelial Cells Mediated by Endogenous<br>Generation of Hydrogen Peroxide. Biological Chemistry, 2002, 383, 693-701.  | 2.5  | 32        |
| 124 | Isoflavones and PPAR Signaling: A Critical Target in Cardiovascular, Metastatic, and Metabolic Disease.<br>PPAR Research, 2010, 2010, 1-10.  | 2.4  | 32        |
| 125 | Is methemoglobin an inert bystander, biomarker or a mediator of oxidative stress—The example of<br>anemia?. Redox Biology, 2013, 1, 65-69.   | 9.0  | 32        |
| 126 | An EPR Investigation of Human Methaemoglobin Oxidation by Hydrogen Peroxide: Methods to Quantify<br>all Paramagnetic Species Observed in the Reaction. Free Radical Research, 1996, 24, 269-280.   | 3.3  | 31        |

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|-----|--|-----|-----------|
| 127 | Measurement of mitochondrial respiratory thresholds and the control of respiration by nitric oxide.<br>Methods in Enzymology, 2002, 359, 305-319.  | 1.0 | 31        |
| 128 | Potential biomarkers of tissue hypoxia during acute hemodilutional anemia in cardiac surgery: A<br>prospective study to assess tissue hypoxia as a mechanism of organ injury. Canadian Journal of<br>Anaesthesia, 2018, 65, 901-913. | 1.6 | 31        |
| 129 | Administration of nitrite after chlorine gas exposure prevents lung injury: Effect of administration modality. Free Radical Biology and Medicine, 2012, 53, 1431-1439.   | 2.9 | 30        |
| 130 | Induction of glutathione synthesis by oxidized low-density lipoprotein and 1-palmitoyl-2-arachidonyl phosphatidylcholine: protection against quinone-mediated oxidative stress. Biochemical Journal, 2002, 362, 51.                  | 3.7 | 29        |
| 131 | Effects of T- and R-state stabilization on deoxyhemoglobin-nitrite reactions and stimulation of nitric oxide signaling. Nitric Oxide - Biology and Chemistry, 2011, 25, 59-69.   | 2.7 | 29        |
| 132 | Sodium nitrite therapy attenuates the hypertensive effects of HBOC-201 via nitrite reduction1.<br>Biochemical Journal, 2009, 422, 423-432.   | 3.7 | 28        |
| 133 | [35] Using peroxynitrite as oxidant with low-density lipoprotein. Methods in Enzymology, 1996, 269, 375-384.   | 1.0 | 27        |
| 134 | Mass spectrometric methods for the analysis of chlorinated and nitrated isoflavonoids: a novel class of biological metabolites. Journal of Mass Spectrometry, 2003, 38, 764-771.   | 1.6 | 27        |
| 135 | Dipyridamole reverses peripheral ischemia and induces angiogenesis in the Db/Db diabetic mouse hind-limb model by decreasing oxidative stress. Free Radical Biology and Medicine, 2011, 50, 262-269.                                 | 2.9 | 27        |
| 136 | Bromofatty aldehyde derived from bromine exposure and myeloperoxidase and eosinophil peroxidase modify CSH and protein. Journal of Lipid Research, 2018, 59, 696-705.  | 4.2 | 27        |
| 137 | Phosgene inhalation causes hemolysis and acute lung injury. Toxicology Letters, 2019, 312, 204-213.  | 0.8 | 27        |
| 138 | Novel Method for Measuring S-Nitrosothiols Using Hydrogen Sulfide. Methods in Enzymology, 2008, 441, 161-172.  | 1.0 | 26        |
| 139 | Sodium nitrite protects against kidney injury induced by brain death and improves post-transplant<br>function. Kidney International, 2012, 82, 304-313.  | 5.2 | 26        |
| 140 | The Hepatoprotective Effect of Sodium Nitrite on Cold Ischemia-Reperfusion Injury. Journal of Transplantation, 2012, 2012, 1-10.   | 0.5 | 26        |
| 141 | Nitrite therapy prevents chlorine gas toxicity in rabbits. Toxicology Letters, 2017, 271, 20-25.   | 0.8 | 26        |
| 142 | Potential for Chlorine Gas-induced Injury in the Extrapulmonary Vasculature. Proceedings of the American Thoracic Society, 2010, 7, 290-293.   | 3.5 | 25        |
| 143 | Weight Loss and Race Modulate Nitric Oxide Metabolism in Overweight Women. Free Radical Biology and Medicine, 2004, 37, 695-702.   | 2.9 | 24        |
| 144 | Developmental changes in circulating IL-8/CXCL8 isoforms in neonates. Cytokine, 2009, 46, 12-16.   | 3.2 | 24        |

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