

# David Jourdeuil

## 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.

68

papers

3,279

citations

30

h-index

57

g-index

72

ext. papers

3,535

ext. citations

5.1

avg. IF

4.79

L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 68 | Concomitant S-, N-, and heme-nitros(yl)ation in biological tissues and fluids: implications for the fate of NO in vivo. <i>FASEB Journal</i> , <b>2002</b> , 16, 1775-85   | 0.9  | 333       |
| 67 | The cytotoxicity of nitroxyl: possible implications for the pathophysiological role of NO. <i>Archives of Biochemistry and Biophysics</i> , <b>1998</b> , 351, 66-74   | 4.1  | 189       |
| 66 | Reaction of superoxide and nitric oxide with peroxynitrite. Implications for peroxynitrite-mediated oxidation reactions in vivo. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 28799-805   | 5.4  | 176       |
| 65 | Superoxide modulates the oxidation and nitrosation of thiols by nitric oxide-derived reactive intermediates. Chemical aspects involved in the balance between oxidative and nitrosative stress. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 11147-51 | 5.4  | 159       |
| 64 | Oxidation and nitrosation of thiols at low micromolar exposure to nitric oxide. Evidence for a free radical mechanism. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 15720-6   | 5.4  | 158       |
| 63 | Dynamic state of S-nitrosothiols in human plasma and whole blood. <i>Free Radical Biology and Medicine</i> , <b>2000</b> , 28, 409-17  | 7.8  | 131       |
| 62 | Essential role for STIM1/Orai1-mediated calcium influx in PDGF-induced smooth muscle migration. <i>American Journal of Physiology - Cell Physiology</i> , <b>2010</b> , 298, C993-1005   | 5.4  | 124       |
| 61 | Effect of superoxide dismutase on the stability of S-nitrosothiols. <i>Archives of Biochemistry and Biophysics</i> , <b>1999</b> , 361, 323-30   | 4.1  | 110       |
| 60 | Unique oxidative mechanisms for the reactive nitrogen oxide species, nitroxyl anion. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 1720-7  | 5.4  | 106       |
| 59 | Increased nitric oxide-dependent nitrosylation of 4,5-diaminofluorescein by oxidants: implications for the measurement of intracellular nitric oxide. <i>Free Radical Biology and Medicine</i> , <b>2002</b> , 33, 676-84  | 7.8  | 103       |
| 58 | Interplay between calcium and reactive oxygen/nitrogen species: an essential paradigm for vascular smooth muscle signaling. <i>Antioxidants and Redox Signaling</i> , <b>2010</b> , 12, 657-74   | 8.4  | 95        |
| 57 | Activation of microglia with zymosan promotes excitatory amino acid release via volume-regulated anion channels: the role of NADPH oxidases. <i>Journal of Neurochemistry</i> , <b>2008</b> , 106, 2449-62   | 6    | 86        |
| 56 | Cytoglobin is expressed in the vasculature and regulates cell respiration and proliferation via nitric oxide dioxygenation. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 8539-47  | 5.4  | 85        |
| 55 | Enhanced S-nitroso-albumin formation from inhaled NO during ischemia/reperfusion. <i>Circulation Research</i> , <b>2004</b> , 94, 559-65   | 15.7 | 85        |
| 54 | Upregulation of Nox4 by TGF{beta}1 oxidizes SERCA and inhibits NO in arterial smooth muscle of the prediabetic Zucker rat. <i>Circulation Research</i> , <b>2010</b> , 107, 975-83   | 15.7 | 82        |
| 53 | S-nitrosothiol formation in blood of lipopolysaccharide-treated rats. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 273, 22-6   | 3.4  | 75        |
| 52 | MYOSLID Is a Novel Serum Response Factor-Dependent Long Noncoding RNA That Amplifies the Vascular Smooth Muscle Differentiation Program. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2016</b> , 36, 2088-99                                       | 9.4  | 70        |

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| 51 | The oxidative and nitrosative chemistry of the nitric oxide/superoxide reaction in the presence of bicarbonate. <i>Archives of Biochemistry and Biophysics</i> , <b>1999</b> , 365, 92-100   | 4.1  | 66 |
| 50 | Guide for the use of nitric oxide (NO) donors as probes of the chemistry of NO and related redox species in biological systems. <i>Methods in Enzymology</i> , <b>2002</b> , 359, 84-105   | 1.7  | 63 |
| 49 | Manganese superoxide dismutase protects from TNF-alpha-induced apoptosis by increasing the steady-state production of H2O2. <i>Antioxidants and Redox Signaling</i> , <b>2006</b> , 8, 1295-305  | 8.4  | 56 |
| 48 | Performance of diamino fluorophores for the localization of sources and targets of nitric oxide. <i>Free Radical Biology and Medicine</i> , <b>2005</b> , 38, 356-68   | 7.8  | 54 |
| 47 | Detection of S-nitrosothiols by fluorometric and colorimetric methods. <i>Methods in Enzymology</i> , <b>1999</b> , 301, 201-11  | 1.7  | 52 |
| 46 | The neuroprotective properties of the superoxide dismutase mimetic tempol correlate with its ability to reduce pathological glutamate release in a rodent model of stroke. <i>Free Radical Biology and Medicine</i> , <b>2014</b> , 77, 168-82 | 7.8  | 47 |
| 45 | Effect of nitric oxide on hemoprotein-catalyzed oxidative reactions. <i>Nitric Oxide - Biology and Chemistry</i> , <b>1998</b> , 2, 37-44  | 5    | 46 |
| 44 | Regulation of smooth muscle by inducible nitric oxide synthase and NADPH oxidase in vascular proliferative diseases. <i>Free Radical Biology and Medicine</i> , <b>2008</b> , 44, 1232-45  | 7.8  | 45 |
| 43 | The reaction of S-nitrosoglutathione with superoxide. <i>Biochemical and Biophysical Research Communications</i> , <b>1998</b> , 244, 525-30   | 3.4  | 45 |
| 42 | iNOS regulation by calcium/calmodulin-dependent protein kinase II in vascular smooth muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2007</b> , 292, H2634-42  | 5.2  | 38 |
| 41 | Role of inducible nitric oxide synthase in leukocyte extravasation in vivo. <i>Biochemical and Biophysical Research Communications</i> , <b>1999</b> , 257, 684-6  | 3.4  | 33 |
| 40 | A Brief Overview of Nitric Oxide and Reactive Oxygen Species Signaling in Hypoxia-Induced Pulmonary Hypertension. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 967, 71-81  | 3.6  | 32 |
| 39 | Oxidants, transcription factors, and intestinal inflammation. <i>Journal of Clinical Gastroenterology</i> , <b>1997</b> , 25 Suppl 1, S61-72   | 3    | 31 |
| 38 | PKC-delta mediates activation of ERK1/2 and induction of iNOS by IL-1beta in vascular smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2006</b> , 290, C1583-91   | 5.4  | 29 |
| 37 | The Chemical Biology of Nitric Oxide <b>2000</b> , 41-55   |      | 29 |
| 36 | The anti-oxidant properties of 5-aminosalicylic acid. <i>Free Radical Biology and Medicine</i> , <b>1996</b> , 21, 367-73  | 7.8  | 29 |
| 35 | Vimentin expression is required for the development of EMT-related renal fibrosis following unilateral ureteral obstruction in mice. <i>American Journal of Physiology - Renal Physiology</i> , <b>2018</b> , 315, F769-F780                   | 4.3  | 26 |
| 34 | Vascular smooth muscle-MAPK14 is required for neointimal hyperplasia by suppressing VSMC differentiation and inducing proliferation and inflammation. <i>Redox Biology</i> , <b>2019</b> , 22, 101137  | 11.3 | 25 |

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| 33 | Cytoglobin Promotes Cardiac Progenitor Cell Survival against Oxidative Stress via the Upregulation of the NFB/iNOS Signal Pathway and Nitric Oxide Production. <i>Scientific Reports</i> , <b>2017</b> , 7, 10754   | 4.9  | 24 |
| 32 | Chemical considerations and biological selectivity of protein nitrosation: implications for NO-mediated signal transduction. <i>Antioxidants and Redox Signaling</i> , <b>2005</b> , 7, 593-606   | 8.4  | 24 |
| 31 | Dual Function for Mature Vascular Smooth Muscle Cells During Arteriovenous Fistula Remodeling. <i>Journal of the American Heart Association</i> , <b>2017</b> , 6,  | 6    | 23 |
| 30 | Long-lasting inhibition of presynaptic metabolism and neurotransmitter release by protein S-nitrosylation. <i>Free Radical Biology and Medicine</i> , <b>2010</b> , 49, 757-69  | 7.8  | 23 |
| 29 | Oxidant-regulation of gene expression in the chronically inflamed intestine. <i>Keio Journal of Medicine</i> , <b>1997</b> , 46, 10-5   | 1.6  | 21 |
| 28 | Catalase potentiates interleukin-1beta-induced expression of nitric oxide synthase in rat vascular smooth muscle cells. <i>Free Radical Biology and Medicine</i> , <b>2005</b> , 38, 597-605  | 7.8  | 20 |
| 27 | Kinetics of photoperoxidation of arachidonic acid: molecular mechanisms and effects of antioxidants. <i>Lipids</i> , <b>1992</b> , 27, 959-67   | 1.6  | 20 |
| 26 | Redox control of G(1)/S cell cycle regulators during nitric oxide-mediated cell cycle arrest. <i>Journal of Cellular Physiology</i> , <b>2007</b> , 212, 827-39   | 7    | 18 |
| 25 | The Hemoglobin Homolog Cytoglobin in Smooth Muscle Inhibits Apoptosis and Regulates Vascular Remodeling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2017</b> , 37, 1944-1955  | 9.4  | 17 |
| 24 | Selective expression of TSPAN2 in vascular smooth muscle is independently regulated by TGF- $\beta$ /SMAD and myocardin/serum response factor. <i>FASEB Journal</i> , <b>2017</b> , 31, 2576-2591   | 0.9  | 16 |
| 23 | S-nitrosation: current concepts and new developments. <i>Antioxidants and Redox Signaling</i> , <b>2012</b> , 17, 934-6.4   | 8.4  | 16 |
| 22 | Selective vulnerability of synaptic signaling and metabolism to nitrosative stress. <i>Antioxidants and Redox Signaling</i> , <b>2012</b> , 17, 992-1012  | 8.4  | 16 |
| 21 | ICAM-1 cytoplasmic tail regulates endothelial glutathione synthesis through a NOX4/PI3-kinase-dependent pathway. <i>Free Radical Biology and Medicine</i> , <b>2010</b> , 49, 1119-28   | 7.8  | 16 |
| 20 | Detection of nitrosothiols and other nitroso species in vitro and in cells. <i>Methods in Enzymology</i> , <b>2005</b> , 396, 118-31  | 1.7  | 15 |
| 19 | The effect of omalizumab on small airway inflammation as measured by exhaled nitric oxide in moderate-to-severe asthmatic patients. <i>Allergy and Asthma Proceedings</i> , <b>2014</b> , 35, 241-9   | 2.6  | 11 |
| 18 | NADPH oxidase 4 is required for interleukin-1 $\beta$ -mediated activation of protein kinase C $\beta$ and downstream activation of c-jun N-terminal kinase signaling in smooth muscle. <i>Free Radical Biology and Medicine</i> , <b>2013</b> , 54, 125-34 | 7.8  | 11 |
| 17 | Redox-sensitivity and site-specificity of S- and N- denitrosation in proteins. <i>PLoS ONE</i> , <b>2010</b> , 5, e14400  | 3.7  | 10 |
| 16 | Increased opioid binding to peripheral white blood cells in a rat model of acute cholestasis. <i>Gastroenterology</i> , <b>1995</b> , 108, 1479-86  | 13.3 | 10 |

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|----|---|------|---|
| 15 | Emerging perspectives on cytoglobin, beyond NO dioxygenase and peroxidase. <i>Redox Biology</i> , <b>2020</b> , 32, 101468  | 11.3 | 8 |
| 14 | The bell-shaped curve for peroxynitrite-mediated oxidation and nitration of NO/O <sub>2</sub> -* is alive and well. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 1e15  | 5.4  | 8 |
| 13 | Effects of nitric oxide on iron or hemoprotein-catalyzed oxidative reactions. <i>Methods in Enzymology</i> , <b>1999</b> , 301, 437-44  | 1.7  | 8 |
| 12 | Stability of S-nitrosothiols in presence of copper, zinc-superoxide dismutase. <i>Methods in Enzymology</i> , <b>1999</b> , 301, 220-7  | 1.7  | 7 |
| 11 | Xanthine oxidase-mediated denitrosation of N-nitroso-tryptophan by superoxide and uric acid. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2013</b> , 28, 57-64  | 5    | 6 |
| 10 | FE NO concentrations in World Trade Center responders and controls, 6 years post-9/11. <i>Lung</i> , <b>2011</b> , 189, 295-303   | 2.9  | 3 |
| 9  | Radiation-Induced Macrophage Senescence Impairs Resolution Programs and Drives Cardiovascular Inflammation. <i>Journal of Immunology</i> , <b>2021</b> , 207, 1812-1823   | 5.3  | 3 |
| 8  | SDH Subunit C Regulates Muscle Oxygen Consumption and Fatigability in an Animal Model of Pulmonary Emphysema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2021</b> , 65, 259-271   | 5.7  | 3 |
| 7  | Effects of low-dose fluticasone propionate/salmeterol combination therapy on exhaled nitric oxide and nitrite/nitrate in breath condensates from patients with mild persistent asthma. <i>Journal of Asthma</i> , <b>2013</b> , 50, 64-70                             | 1.9  | 2 |
| 6  | Methods for distinguishing nitrosative and oxidative chemistry of reactive nitrogen oxide species derived from nitric oxide. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]</i> , <b>2001</b> , Chapter 10, Unit 10.8 | 1    | 2 |
| 5  | Fluorometric techniques for the detection of nitric oxide and metabolites. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]</i> , <b>2001</b> , Chapter 10, Unit 10.4   | 1    | 2 |
| 4  | Thymine DNA glycosylase is a key regulator of CaMKII $\alpha$ expression and vascular smooth muscle phenotype. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2019</b> , 317, H969-H980  | 5.2  | 1 |
| 3  | Tissue Glutathione Mediates the Conversion of Nitrite to Nitric Oxide in the Vascular Wall to Facilitate Vasodilation. <i>FASEB Journal</i> , <b>2009</b> , 23, 628.18  | 0.9  |   |
| 2  | Cytoglobin regulates cell respiration and nitrosative stress through NO dioxygenation and co-localizes with inducible nitric oxide synthase during vascular injury.. <i>FASEB Journal</i> , <b>2009</b> , 23, 852.3   | 0.9  |   |
| 1  | Neuroprotective properties of antioxidants in stroke correlate with their effects on ischemic release of glutamate. <i>FASEB Journal</i> , <b>2013</b> , 27, 1142.9   | 0.9  |   |