

David Jourd'heuil

List of Publications by Year in descending order

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70
papers

3,806
citations

136885

32
h-index

123376

61
g-index

72
all docs

72
docs citations

72
times ranked

4791
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2002, 16, 1775-1785.	0.2	363
2	Reaction of Superoxide and Nitric Oxide with Peroxynitrite. <i>Journal of Biological Chemistry</i> , 2001, 276, 28799-28805.	1.6	214
3	The Cytotoxicity of Nitroxyl: Possible Implications for the Pathophysiological Role of NO. <i>Archives of Biochemistry and Biophysics</i> , 1998, 351, 66-74.	1.4	200
4	Oxidation and Nitrosation of Thiols at Low Micromolar Exposure to Nitric Oxide. <i>Journal of Biological Chemistry</i> , 2003, 278, 15720-15726.	1.6	173
5	Superoxide Modulates the Oxidation and Nitrosation of Thiols by Nitric Oxide-derived Reactive Intermediates. <i>Journal of Biological Chemistry</i> , 1997, 272, 11147-11151.	1.6	172
6	Dynamic state of S-nitrosothiols in human plasma and whole blood. <i>Free Radical Biology and Medicine</i> , 2000, 28, 409-417.	1.3	142
7	Essential role for STIM1/Orai1-mediated calcium influx in PDGF-induced smooth muscle migration. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C993-C1005.	2.1	137
8	Unique Oxidative Mechanisms for the Reactive Nitrogen Oxide Species, Nitroxyl Anion. <i>Journal of Biological Chemistry</i> , 2001, 276, 1720-1727.	1.6	126
9	Effect of Superoxide Dismutase on the Stability of S-Nitrosothiols. <i>Archives of Biochemistry and Biophysics</i> , 1999, 361, 323-330.	1.4	117
10	Interplay Between Calcium and Reactive Oxygen/Nitrogen Species: An Essential Paradigm for Vascular Smooth Muscle Signaling. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 657-674.	2.5	114
11	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> , 2002, 33, 676-684.	1.3	111
12	Upregulation of Nox4 by TGF β 1 Oxidizes SERCA and Inhibits NO in Arterial Smooth Muscle of the Prediabetic Zucker Rat. <i>Circulation Research</i> , 2010, 107, 975-983.	2.0	101
13	Cytoglobin Is Expressed in the Vasculature and Regulates Cell Respiration and Proliferation via Nitric Oxide Dioxygenation. <i>Journal of Biological Chemistry</i> , 2009, 284, 8539-8547.	1.6	99
14	Enhanced S-Nitroso-Albumin Formation From Inhaled NO During Ischemia/Reperfusion. <i>Circulation Research</i> , 2004, 94, 559-565.	2.0	94
15	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> , 2008, 106, 2449-2462.	2.1	94
16	<i>MYOSLID</i> 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> , 2016, 36, 2088-2099.	1.1	93
17	S-Nitrosothiol Formation in Blood of Lipopolysaccharide-Treated Rats. <i>Biochemical and Biophysical Research Communications</i> , 2000, 273, 22-26.	1.0	77
18	The Oxidative and Nitrosative Chemistry of the Nitric Oxide/Superoxide Reaction in the Presence of Bicarbonate. <i>Archives of Biochemistry and Biophysics</i> , 1999, 365, 92-100.	1.4	69

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19	Manganese Superoxide Dismutase Protects from TNF- α -Induced Apoptosis by Increasing the Steady-State Production of H ₂ O ₂ . <i>Antioxidants and Redox Signaling</i> , 2006, 8, 1295-1305.	2.5	67
20	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> , 2002, 359, 84-105.	0.4	66
21	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> , 2018, 315, F769-F780.	1.3	64
22	Performance of diamino fluorophores for the localization of sources and targets of nitric oxide. <i>Free Radical Biology and Medicine</i> , 2005, 38, 356-368.	1.3	60
23	[21] Detection of S-nitrosothiols by fluorometric and colorimetric methods. <i>Methods in Enzymology</i> , 1999, 301, 201-211.	0.4	59
24	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> , 2014, 77, 168-182.	1.3	57
25	Regulation of smooth muscle by inducible nitric oxide synthase and NADPH oxidase in vascular proliferative diseases. <i>Free Radical Biology and Medicine</i> , 2008, 44, 1232-1245.	1.3	52
26	The Reaction of S-Nitrosoglutathione with Superoxide. <i>Biochemical and Biophysical Research Communications</i> , 1998, 244, 525-530.	1.0	51
27	Effect of Nitric Oxide on Hemoprotein-Catalyzed Oxidative Reactions. <i>Nitric Oxide - Biology and Chemistry</i> , 1998, 2, 37-44.	1.2	51
28	iNOS regulation by calcium/calmodulin-dependent protein kinase II in vascular smooth muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H2634-H2642.	1.5	47
29	Vascular smooth muscle-MAPK14 is required for neointimal hyperplasia by suppressing VSMC differentiation and inducing proliferation and inflammation. <i>Redox Biology</i> , 2019, 22, 101137.	3.9	46
30	A Brief Overview of Nitric Oxide and Reactive Oxygen Species Signaling in Hypoxia-Induced Pulmonary Hypertension. <i>Advances in Experimental Medicine and Biology</i> , 2017, 967, 71-81.	0.8	38
31	Oxidants, Transcription Factors, and Intestinal Inflammation. <i>Journal of Clinical Gastroenterology</i> , 1997, 25, S61-S72.	1.1	37
32	Dual Function for Mature Vascular Smooth Muscle Cells During Arteriovenous Fistula Remodeling. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	34
33	Role of Inducible Nitric Oxide Synthase in Leukocyte Extravasation in Vivo. <i>Biochemical and Biophysical Research Communications</i> , 1999, 257, 684-686.	1.0	33
34	The Chemical Biology of Nitric Oxide. , 2000, , 41-55.		32
35	PKC- ζ mediates activation of ERK1/2 and induction of iNOS by IL-1 β in vascular smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1583-C1591.	2.1	32
36	The anti-oxidant properties of 5-aminosalicylic acid. <i>Free Radical Biology and Medicine</i> , 1996, 21, 367-373.	1.3	31

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37	Cytoglobin Promotes Cardiac Progenitor Cell Survival against Oxidative Stress via the Upregulation of the NF κ B/iNOS Signal Pathway and Nitric Oxide Production. <i>Scientific Reports</i> , 2017, 7, 10754.	1.6	30
38	Chemical Considerations and Biological Selectivity of Protein Nitrosation: Implications for NO-Mediated Signal Transduction. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 593-606.	2.5	27
39	Long-lasting inhibition of presynaptic metabolism and neurotransmitter release by protein S-nitrosylation. <i>Free Radical Biology and Medicine</i> , 2010, 49, 757-769.	1.3	27
40	Selective expression of TSPAN2 in vascular smooth muscle is independently regulated by TGF β 1/SMAD and myocardin/serum response factor. <i>FASEB Journal</i> , 2017, 31, 2576-2591.	0.2	27
41	Oxidant-regulation of Gene Expression in the Chronically Inflamed Intestine.. <i>Keio Journal of Medicine</i> , 1997, 46, 10-15.	0.5	25
42	The Hemoglobin Homolog Cytoglobin in Smooth Muscle Inhibits Apoptosis and Regulates Vascular Remodeling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1944-1955.	1.1	24
43	Kinetics of photoperoxidation of arachidonic acid: Molecular mechanisms and effects of antioxidants. <i>Lipids</i> , 1992, 27, 959-967.	0.7	22
44	Catalase potentiates interleukin-1 β -induced expression of nitric oxide synthase in rat vascular smooth muscle cells. <i>Free Radical Biology and Medicine</i> , 2005, 38, 597-605.	1.3	22
45	Emerging perspectives on cytoglobin, beyond NO dioxygenase and peroxidase. <i>Redox Biology</i> , 2020, 32, 101468.	3.9	21
46	Radiation-Induced Macrophage Senescence Impairs Resolution Programs and Drives Cardiovascular Inflammation. <i>Journal of Immunology</i> , 2021, 207, 1812-1823.	0.4	20
47	Redox control of G1/S cell cycle regulators during nitric oxide-mediated cell cycle arrest. <i>Journal of Cellular Physiology</i> , 2007, 212, 827-839.	2.0	19
48	ICAM-1 cytoplasmic tail regulates endothelial glutathione synthesis through a NOX4/PI3-kinase-dependent pathway. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1119-1128.	1.3	19
49	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> , 2014, 35, 241-249.	1.0	18
50	Selective Vulnerability of Synaptic Signaling and Metabolism to Nitrosative Stress. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 992-1012.	2.5	17
51	S-Nitrosation: Current Concepts and New Developments. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 934-936.	2.5	17
52	Detection of Nitrosothiols and Other Nitroso Species In Vitro and in Cells. <i>Methods in Enzymology</i> , 2005, 396, 118-131.	0.4	16
53	NADPH oxidase 4 is required for interleukin-1 β -mediated activation of protein kinase C δ and downstream activation of c-jun N-terminal kinase signaling in smooth muscle. <i>Free Radical Biology and Medicine</i> , 2013, 54, 125-134.	1.3	16
54	Increased opioid binding to peripheral white blood cells in a rat model of acute cholestasis. <i>Gastroenterology</i> , 1995, 108, 1479-1486.	0.6	12

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55	Redox-Sensitivity and Site-Specificity of S- and N- Denitrosation in Proteins. PLoS ONE, 2010, 5, e14400.	1.1	10
56	SDH Subunit C Regulates Muscle Oxygen Consumption and Fatigability in an Animal Model of Pulmonary Emphysema. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 259-271.	1.4	9
57	[23] Stability of S-nitrosothiols in presence of copper, zinc-superoxide dismutase. Methods in Enzymology, 1999, 301, 220-227.	0.4	8
58	[45] Effects of nitric oxide on iron or hemoprotein-catalyzed oxidative reactions. Methods in Enzymology, 1999, 301, 437-444.	0.4	8
59	The Bell-shaped Curve for Peroxynitrite-mediated Oxidation and Nitration of NO/O ₂ ⁻ . Is Alive and Well. Journal of Biological Chemistry, 2010, 285, 1e15.	1.6	8
60	Xanthine oxidase-mediated denitrosation of N-nitroso-tryptophan by superoxide and uric acid. Nitric Oxide - Biology and Chemistry, 2013, 28, 57-64.	1.2	6
61	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. Journal of Asthma, 2013, 50, 64-70.	0.9	5
62	FENO Concentrations in World Trade Center Responders and Controls, 6 Years Post-9/11. Lung, 2011, 189, 295-303.	1.4	4
63	Thymine DNA glycosylase is a key regulator of CaMKII β expression and vascular smooth muscle phenotype. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H969-H980.	1.5	4
64	Fluorometric Techniques for the Detection of Nitric Oxide and Metabolites. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 1999, 00, Unit 10.4.	1.1	2
65	Methods for Distinguishing Nitrosative and Oxidative Chemistry of Reactive Nitrogen Oxide Species Derived from Nitric Oxide. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2000, 3, Unit 10.8.	1.1	2
66	Redox Control of Vascular Smooth Muscle Function. Antioxidants and Redox Signaling, 2010, 12, 579-581.	2.5	2
67	DMT1-mediated endosome-mitochondria interactions regulates iron homeostasis and mitochondrial metabolism. FASEB Journal, 2022, 36, .	0.2	2
68	Tissue Glutathione Mediates the Conversion of Nitrite to Nitric Oxide in the Vascular Wall to Facilitate Vasodilation. FASEB Journal, 2009, 23, 628.18.	0.2	0
69	Cytoglobin regulates cell respiration and nitrosative stress through NO dioxygenation and co-localizes with inducible nitric oxide synthase during vascular injury.. FASEB Journal, 2009, 23, 852.3.	0.2	0
70	Neuroprotective properties of antioxidants in stroke correlate with their effects on ischemic release of glutamate. FASEB Journal, 2013, 27, 1142.9.	0.2	0