Douglas D Thomas

List of Publications by Year
in descending order

62	5,670	81743 39	138251 58
papers	citations	h-index	g-index

63	63	63	6023
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The chemical biology of nitric oxide: Implications in cellular signaling. Free Radical Biology and Medicine, 2008, 45, 18-31.	1.3	809
2	Nitric oxide regulates angiogenesis through a functional switch involving thrombospondin-1. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13147-13152.	3.3	269
3	A biochemical rationale for the discrete behavior of nitroxyl and nitric oxide in the cardiovascular system. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9196-9201.	3.3	265
4	Hypoxic inducible factor 1Î±, extracellular signal-regulated kinase, and p53 are regulated by distinct threshold concentrations of nitric oxide. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8894-8899.	3.3	263
5	The chemistry of nitrosative stress induced by nitric oxide and reactive nitrogen oxide species. Putting perspective on stressful biological situations. Biological Chemistry, 2004, 385, 1-10.	1.2	256
6	The Biphasic Nature of Nitric Oxide Responses in Tumor Biology. Antioxidants and Redox Signaling, 2006, 8, 1329-1337.	2.5	217
7	Nitric oxide regulates matrix metalloproteinase-9 activity by guanylyl-cyclase-dependent and -independent pathways. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16898-16903.	3.3	188
8	Protein nitration is mediated by heme and free metals through Fenton-type chemistry: An alternative to the NO/OFormula reaction. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12691-12696.	3.3	184
9	Molecular mechanisms for discrete nitric oxide levels in cancer. Nitric Oxide - Biology and Chemistry, 2008, 19, 73-76.	1.2	172
10	Focusing of nitric oxide mediated nitrosation and oxidative nitrosylation as a consequence of reaction with superoxide. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11127-11132.	3.3	163
11	Distinction between Nitrosating Mechanisms within Human Cells and Aqueous Solution. Journal of Biological Chemistry, 2001, 276, 30085-30091.	1.6	135
12	Nitric Oxide and Cancer Therapy: The Emperor has NO Clothes. Current Pharmaceutical Design, 2010, 16, 381-391.	0.9	128
13	Dinitrosyliron complexes are the most abundant nitric oxide-derived cellular adduct: biological parameters of assembly and disappearance. Free Radical Biology and Medicine, 2011, 51, 1558-1566.	1.3	127
14	A Chemical Perspective on the Interplay Between NO, Reactive Oxygen Species, and Reactive Nitrogen Oxide Species. Annals of the New York Academy of Sciences, 2002, 962, 195-206.	1.8	126
15	Molecular Mechanisms of Nitric Oxide in Cancer Progression, Signal Transduction, and Metabolism. Antioxidants and Redox Signaling, 2019, 30, 1124-1143.	2.5	122
16	Comparison of the reactivity of nitric oxide and nitroxyl with heme proteins. Journal of Inorganic Biochemistry, 2003, 93, 52-60.	1.5	114
17	Breathing new life into nitric oxide signaling: A brief overview of the interplay between oxygen and nitric oxide. Redox Biology, 2015, 5, 225-233.	3.9	113
18	Signaling and stress: The redox landscape in NOS2 biology. Free Radical Biology and Medicine, 2015, 87, 204-225.	1.3	108

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19	Mechanism of Aerobic Decomposition of Angeli's Salt (Sodium Trioxodinitrate) at Physiological pH. Journal of the American Chemical Society, 2005, 127, 722-731.	6.6	105
20	Superoxide Fluxes Limit Nitric Oxide-induced Signaling. Journal of Biological Chemistry, 2006, 281, 25984-25993.	1.6	104
21	Discriminating formation of HNO from other reactive nitrogen oxide species. Free Radical Biology and Medicine, 2006, 40, 1056-1066.	1.3	99
22	Inhibition of extracellular HMGB1 attenuates hyperoxia-induced inflammatory acute lung injury. Redox Biology, 2014, 2, 314-322.	3.9	96
23	Direct real-time evaluation of nitration with green fluorescent protein in solution and within human cells reveals the impact of nitrogen dioxide vs. peroxynitrite mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3481-3486.	3.3	95
24	Nitric Oxide Modifies Global Histone Methylation by Inhibiting Jumonji C Domain-containing Demethylases. Journal of Biological Chemistry, 2013, 288, 16004-16015.	1.6	89
25	Ingress and reactive chemistry of nitroxyl-derived species within human cells. Free Radical Biology and Medicine, 2002, 33, 827-834.	1.3	86
26	Orthogonal properties of the redox siblings nitroxyl and nitric oxide in the cardiovascular system: a novel redox paradigm. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H2264-H2276.	1.5	86
27	Inflammation and IGF-I activate the Akt pathway in breast cancer. International Journal of Cancer, 2007, 120, 796-805.	2.3	81
28	Heme Proteins and Nitric Oxide (NO): The Neglected, Eloquent Chemistry in NO Redox Signaling and Regulation. Antioxidants and Redox Signaling, 2003, 5, 307-317.	2.5	80
29	Further evidence for distinct reactive intermediates from nitroxyl and peroxynitrite: effects of buffer composition on the chemistry of Angeli's salt and synthetic peroxynitrite. Archives of Biochemistry and Biophysics, 2002, 401, 134-144.	1.4	78
30	Nitric Oxide Suppresses Tumor Cell Migration through N-Myc Downstream-regulated Gene-1 (NDRG1) Expression. Journal of Biological Chemistry, 2011, 286, 41413-41424.	1.6	69
31	Guide for the use of nitric oxide (NO) donors as probes of the chemistry of NO and related redox species in biological systems. Methods in Enzymology, 2002, 359, 84-105.	0.4	66
32	NOS2 as an Emergent Player in Progression of Cancer. Antioxidants and Redox Signaling, 2017, 26, 963-965.	2.5	63
33	Epigenetics: The third pillar of nitric oxide signaling. Pharmacological Research, 2017, 121, 52-58.	3.1	57
34	Peroxynitrite and myocardial contractility: In vivo versus in vitro effects. Free Radical Biology and Medicine, 2006, 41, 1606-1618.	1.3	53
35	Dietary Antioxidants Significantly Attenuate Hyperoxia-Induced Acute Inflammatory Lung Injury by Enhancing Macrophage Function via Reducing the Accumulation of Airway HMGB1. International Journal of Molecular Sciences, 2020, 21, 977.	1.8	52
36	Nitric oxide, the new architect of epigenetic landscapes. Nitric Oxide - Biology and Chemistry, 2016, 59, 54-62.	1.2	48

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37	Nitric Oxide Regulates Gene Expression in Cancers by Controlling Histone Posttranslational Modifications. Cancer Research, 2015, 75, 5299-5308.	0.4	47
38	The Chemical Dynamics of NO and Reactive Nitrogen Oxides: A Practical Guide. Current Molecular Medicine, 2004, 4, 723-740.	0.6	41
39	Comparing the chemical biology of NO and HNO. Archives of Pharmacal Research, 2009, 32, 1139-1153.	2.7	41
40	Oxygen dependence of nitric oxide-mediated signaling. Redox Biology, 2013, 1, 203-209.	3.9	37
41	Nitric oxide reduces oxidative stress in cancer cells by forming dinitrosyliron complexes. Nitric Oxide - Biology and Chemistry, 2018, 76, 37-44.	1.2	36
42	Is S-Nitrosocysteine a True Surrogate for Nitric Oxide?. Antioxidants and Redox Signaling, 2012, 17, 962-968.	2.5	35
43	The Activation of Metabolites of Nitric Oxide Synthase by Metals Is Both Redox and Oxygen Dependent: A New Feature of Nitrogen Oxide Signaling. Antioxidants and Redox Signaling, 2006, 8, 1363-1371.	2.5	27
44	Insights into the Diverse Effects of Nitric Oxide on Tumor Biology. Vitamins and Hormones, 2014, 96, 265-298.	0.7	27
45	The Compromise of Macrophage Functions by Hyperoxia Is Attenuated by Ethacrynic Acid via Inhibition of NF-Î²Bâ€“Mediated Release of High-Mobility Group Box-1. American Journal of Respiratory Cell and Molecular Biology, 2015, 52, 171-182.	1.4	23
46	Nitric oxide and hydrogen sulfide: Sibling rivalry in the family of epigenetic regulators. Free Radical Biology and Medicine, 2021, 170, 34-43.	1.3	23
47	Guanylyl cyclase-dependent chemotaxis of endothelial cells in response to nitric oxide gradients. Free Radical Biology and Medicine, 2006, 40, 1028-1033.	1.3	22
48	Nitric Oxide Modulates Metabolic Processes in the Tumor Immune Microenvironment. International Journal of Molecular Sciences, 2021, 22, 7068.	1.8	21
49	S-Nitrosation: Current Concepts and New Developments. Antioxidants and Redox Signaling, 2012, 17, 934-936.	2.5	17
50	Ascorbic Acid Attenuates Hyperoxia-Compromised Host Defense against Pulmonary Bacterial Infection. American Journal of Respiratory Cell and Molecular Biology, 2016, 55, 511-520.	1.4	17
51	Differential mitochondrial dinitrosyliron complex formation by nitrite and nitric oxide. Redox Biology, 2018, 15, 277-283.	3.9	14
52	Asbestos Redirects Nitric Oxide Signaling through Rapid Catalytic Conversion to Nitrite. Cancer Research, 2006, 66, 11600-11604.	0.4	12
53	Comparison of the Chemical Biology of NO and HNO: An Inorganic Perspective. Progress in Inorganic Chemistry, 2005, , 349-384.	3.0	11
54	The nitric oxide donor, (Z)-1-[N-(2-aminoethyl)-N-(2-ammonioethyl)amino]diazen-1-ium-1,2-diolate (DETA-NONOate/D-NO), increases survival by attenuating hyperoxia-compromised innate immunity in bacterial clearance in a mouse model of ventilator-associated pneumonia. Biochemical Pharmacology, 2020, 176, 113817.	2.0	11

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55	Nitric Oxide and Cancer: An Overview. , 2010, , 3-20.		9
56	Antioxidant Properties of Nitric Oxide in Cellular Physiological and Pathophysiological Mechanisms. The Implications of Biological Balance between NO and Oxidative Stress. Current Medicinal Chemistry Anti-inflammatory & Anti-allergy Agents, 2004, 3, 181-188.	0.4	8
57	Vorinostat exhibits anticancer effects in triple-negative breast cancer cells by preventing nitric oxide-driven histone deacetylation. Biological Chemistry, 2021, 402, 501-512.	1.2	7
58	Nitric oxide is an epigenetic regulator of histone post-translational modifications in cancer. Current Opinion in Physiology, 2019, 9, 94-99.	0.9	6
59	The Chemistry of Protein Modifications Elicited by Nitric Oxide and Related Nitrogen Oxides. , 2006, , 25-58.		4
60	Nitrogen Oxides and Their Roles in Cancer Etiology. Current Pharmacology Reports, 2017, 3, 151-161.	1.5	4
61	Determinants of Nitric Oxide Chemistry. , 2010, , 3-25.		2
62	Mechanisms of Epigenetic Regulation by Nitric Oxide. , 2017, , 255-270.		2