

Giuseppe L Squadrito

List of Publications by Year in descending order

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56
papers

6,281
citations

81900
39
h-index

155660
55
g-index

56
all docs

56
docs citations

56
times ranked

5906
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Oxidative chemistry of nitric oxide: the roles of superoxide, peroxynitrite, and carbon dioxide. Free Radical Biology and Medicine, 1998, 25, 392-403.	2.9	712
3	Role of Free Radicals in the Toxicity of Airborne Fine Particulate Matter. Chemical Research in Toxicology, 2001, 14, 1371-1377.	3.3	445
4	Quinoid redox cycling as a mechanism for sustained free radical generation by inhaled airborne particulate matter. Free Radical Biology and Medicine, 2001, 31, 1132-1138.	2.9	404
5	Free radical biology and medicine: it's a gas, man!. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R491-R511.	1.8	383
6	Reaction of Uric Acid with Peroxynitrite and Implications for the Mechanism of Neuroprotection by Uric Acid. Archives of Biochemistry and Biophysics, 2000, 376, 333-337.	3.0	300
7	Acceleration of Peroxynitrite Oxidations by Carbon Dioxide. Archives of Biochemistry and Biophysics, 1996, 327, 335-343.	3.0	299
8	The cascade mechanism to explain ozone toxicity: The role of lipid ozonation products. Free Radical Biology and Medicine, 1995, 19, 935-941.	2.9	280
9	The formation of peroxynitrite in vivo from nitric oxide and superoxide. Chemico-Biological Interactions, 1995, 96, 203-206.	4.0	183
10	A practical method for preparing peroxynitrite solutions of low ionic strength and free of hydrogen peroxide. Free Radical Biology and Medicine, 1995, 18, 75-83.	2.9	177
11	Inactivation of Glutathione Peroxidase by Peroxynitrite. Archives of Biochemistry and Biophysics, 1998, 349, 1-6.	3.0	128
12	Direct and indirect oxidations by peroxynitrite, neither involving the hydroxyl radical. Free Radical Biology and Medicine, 1996, 21, 965-974.	2.9	122
13	Carbon Dioxide Modulation of Hydroxylation and Nitration of Phenol by Peroxynitrite. Archives of Biochemistry and Biophysics, 1997, 345, 160-170.	3.0	110
14	Reaction of Peroxynitrite with Melatonin: A Mechanistic Study. Chemical Research in Toxicology, 1999, 12, 526-534.	3.3	103
15	The Reaction of Melatonin with Peroxynitrite: Formation of Melatonin Radical Cation and Absence of Stable Nitrated Products. Biochemical and Biophysical Research Communications, 1998, 251, 83-87.	2.1	94
16	Mitigation of chlorine-induced lung injury by low-molecular-weight antioxidants. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L733-L743.	2.9	92
17	Competitive reactions of peroxynitrite with 2'-deoxyguanosine and 7,8-dihydro-8-oxo-2'-deoxyguanosine (8-oxodG): Relevance to the formation of 8-oxodG in DNA exposed to peroxynitrite. Free Radical Biology and Medicine, 1996, 21, 407-411.	2.9	86
18	Targeting Glycolysis through Inhibition of Lactate Dehydrogenase Impairs Tumor Growth in Preclinical Models of Ewing Sarcoma. Cancer Research, 2019, 79, 5060-5073.	0.9	86

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19	A new mechanism for the toxicity of ozone. <i>Toxicology Letters</i> , 1995, 82-83, 287-293.	0.8	85
20	The Catalytic Role of Carbon Dioxide in the Decomposition of Peroxynitrite. <i>Free Radical Biology and Medicine</i> , 1997, 23, 331-338.	2.9	84
21	Mapping the Reaction of Peroxynitrite with CO ₂ : Energetics, Reactive Species, and Biological Implications. <i>Chemical Research in Toxicology</i> , 2002, 15, 885-895.	3.3	81
22	Inhibition of Peroxynitrite-Mediated Oxidation of Glutathione by Carbon Dioxide. <i>Archives of Biochemistry and Biophysics</i> , 1997, 339, 183-189.	3.0	77
23	Elucidating mechanisms of chlorine toxicity: reaction kinetics, thermodynamics, and physiological implications. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010, 299, L289-L300.	2.9	77
24	Mechanisms and Modification of Chlorine-induced Lung Injury in Animals. <i>Proceedings of the American Thoracic Society</i> , 2010, 7, 278-283.	3.5	77
25	Dynamic Imaging of LDH Inhibition in Tumors Reveals Rapid In Vivo Metabolic Rewiring and Vulnerability to Combination Therapy. <i>Cell Reports</i> , 2020, 30, 1798-1810.e4.	6.4	73
26	The role of combustion-generated radicals in the toxicity of PM _{2.5} . <i>Proceedings of the Combustion Institute</i> , 2000, 28, 2675-2681.	3.9	71
27	[29] Synthesis of peroxynitrite by azide-ozone reaction. <i>Methods in Enzymology</i> , 1996, 269, 311-321.	1.0	66
28	Lipid Ozonation Products Activate Phospholipases A ₂ , C, and D. <i>Toxicology and Applied Pharmacology</i> , 1998, 150, 338-349.	2.8	63
29	Ascorbate and Deferoxamine Administration after Chlorine Exposure Decrease Mortality and Lung Injury in Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 45, 386-392.	2.9	60
30	Insensitivity of the Rate of Decomposition of Peroxynitrite to Changes in Viscosity; Evidence against Free Radical Formation. <i>Journal of the American Chemical Society</i> , 1996, 118, 3125-3128.	13.7	57
31	Nitration and Nitrosation by Peroxynitrite: Role of CO ₂ and Evidence for Common Intermediates. <i>Journal of the American Chemical Society</i> , 2000, 122, 6911-6916.	13.7	49
32	Nitrosation by Peroxynitrite: Use of Phenol as a Probe. <i>Archives of Biochemistry and Biophysics</i> , 1998, 358, 1-16.	3.0	48
33	Mitigation of chlorine gas lung injury in rats by postexposure administration of sodium nitrite. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 300, L362-L369.	2.9	46
34	Chlorine Gas Exposure Causes Systemic Endothelial Dysfunction by Inhibiting Endothelial Nitric Oxide Synthase-Dependent Signaling. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 45, 419-425.	2.9	46
35	Inhibition of Lung Fluid Clearance and Epithelial Na ⁺ Channels by Chlorine, Hypochlorous Acid, and Chloramines. <i>Journal of Biological Chemistry</i> , 2010, 285, 9716-9728.	3.4	45
36	The Nature of Reactive Species in Systems That Produce Peroxynitrite. <i>Chemical Research in Toxicology</i> , 1998, 11, 718-719.	3.3	44

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37	Production of the criegee ozonide during the ozonation of 1-Palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine liposomes. <i>Lipids</i> , 1992, 27, 955-958.	1.7	42
38	Identification of heptanal and nonanal in bronchoalveolar lavage from rats exposed to low levels of ozone. <i>Biochemical and Biophysical Research Communications</i> , 1992, 188, 129-134.	2.1	39
39	Post-Exposure Antioxidant Treatment in Rats Decreases Airway Hyperplasia and Hyperreactivity Due to Chlorine Inhalation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 46, 599-606.	2.9	39
40	The Mechanism of the Peroxynitriteâ€“Carbon Dioxide Reaction Probed Using Tyrosine. <i>Nitric Oxide - Biology and Chemistry</i> , 1997, 1, 301-307.	2.7	32
41	[26] Selecting the most appropriate synthesis of peroxynitrite. <i>Methods in Enzymology</i> , 1996, 269, 285-295.	1.0	31
42	Administration of nitrite after chlorine gas exposure prevents lung injury: Effect of administration modality. <i>Free Radical Biology and Medicine</i> , 2012, 53, 1431-1439.	2.9	30
43	Pyrazole-Based Lactate Dehydrogenase Inhibitors with Optimized Cell Activity and Pharmacokinetic Properties. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 10984-11011.	6.4	30
44	On the hydrophobicity of nitrogen dioxide: Could there be a â€œlensâ€•effect for NO2 reaction kinetics?. <i>Nitric Oxide - Biology and Chemistry</i> , 2009, 21, 104-109.	2.7	25
45	Peroxynitrite-Mediated Oxidation of d,l-Selenomethionine. <i>Free Radical Biology and Medicine</i> , 1997, 23, 917-926.	2.9	24
46	Anomalous nitration of fluoranthene with nitrogen dioxide in carbon tetrachloride. <i>Journal of the American Chemical Society</i> , 1987, 109, 6535-6537.	13.7	19
47	[17] Quantifying aldehydes and distinguishing aldehydic product profiles from autoxidation and ozonation of unsaturated fatty acids. <i>Methods in Enzymology</i> , 1994, 233, 174-182.	1.0	17
48	Activation of Phospholipase A2 in 1-Palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine Liposomes Containing Lipid Ozonation Products. <i>Chemical Research in Toxicology</i> , 1994, 7, 458-462.	3.3	17
49	Targeted Aerosolized Delivery of Ascorbate in the Lungs of Chlorine-Exposed Rats. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2012, 25, 333-341.	1.4	13
50	Proton NMR studies on mutagenic nitrofluoranthenes and exposure risk assessment. <i>Chemical Research in Toxicology</i> , 1990, 3, 231-235.	3.3	11
51	[19] Direct and simultaneous ultraviolet second-derivative spectrophotometric determination of nitrite and nitrate in preparations of peroxynitrite. <i>Methods in Enzymology</i> , 1999, 301, 178-187.	1.0	10
52	Desferrioxamine inhibits protein tyrosine nitration: Mechanisms and implications. <i>Free Radical Biology and Medicine</i> , 2012, 53, 951-961.	2.9	10
53	[34] Distinguishing reactivities of peroxynitrite and hydroxyl radical. <i>Methods in Enzymology</i> , 1996, 269, 366-374.	1.0	8
54	[52] Synthesis of inflammatory signal transduction species formed during ozonation and/or peroxidation of tissue lipids. <i>Methods in Enzymology</i> , 2000, 319, 570-582.	1.0	5

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55	Detection of Aldehydes in Bronchoalveolar Lavage of Rats Exposed to Ozone. Toxicological Sciences, 1996, 34, 148-156.	3.1	2
56	Diamide downregulates human ENaC activity in <i>Xenopus</i> oocytes. FASEB Journal, 2007, 21, .	0.5	0