

# Sara Goldstein

## List of Publications by Year in descending order

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88  
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5,003  
citations

108046

37  
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100535

70  
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docs citations

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times ranked

6152  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclic Hydroxylamines as Monitors of Peroxynitrite and Superoxide-Revisited. <i>Antioxidants</i> , 2022, 11, 40.	2.2	6
2	3-Carbamoyl-proxyl nitroxide radicals attenuate bleomycin-induced pulmonary fibrosis in mice. <i>Free Radical Biology and Medicine</i> , 2021, 171, 135-142.	1.3	7
3	The nitroxide/antioxidant 3-carbamoyl proxyl attenuates disease severity in murine models of severe asthma. <i>Free Radical Biology and Medicine</i> , 2021, 177, 181-188.	1.3	3
4	Hydroxylamines inhibit tyrosine oxidation and nitration: The role of their respective nitroxide radicals. <i>Free Radical Biology and Medicine</i> , 2020, 160, 837-844.	1.3	5
5	Mechanistic insight into the catalytic inhibition by nitroxides of tyrosine oxidation and nitration. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 129403.	1.1	1
6	Carbon dioxide-catalyzed peroxynitrite reactivity – The resilience of the radical mechanism after two decades of research. <i>Free Radical Biology and Medicine</i> , 2019, 135, 210-215.	1.3	33
7	Nitrogen Dioxide Reaction with Nitroxide Radical Derived from Hydroxamic Acids: The Intermediacy of Acyl Nitroso and Nitroxyl (HNO). <i>Journal of Physical Chemistry A</i> , 2018, 122, 3747-3753.	1.1	10
8	Studying mechanism of radical reactions: From radiation to nitroxides as research tools. <i>Radiation Physics and Chemistry</i> , 2018, 143, 14-19.	1.4	2
9	A kinetic study of the oxidation of hydroxamic acids by compounds I and II of horseradish peroxidase: Effect of transition metal ions. <i>Journal of Coordination Chemistry</i> , 2018, 71, 1728-1737.	0.8	4
10	Direct Observation of Acyl Nitroso Compounds in Aqueous Solution and the Kinetics of Their Reactions with Amines, Thiols, and Hydroxamic Acids. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7006-7013.	1.1	12
11	Mechanism of HRP-catalyzed nitrite oxidation by H <sub>2</sub> O <sub>2</sub> revisited: Effect of nitroxides on enzyme inactivation and its catalytic activity. <i>Free Radical Biology and Medicine</i> , 2017, 108, 832-839.	1.3	9
12	Nitroxides protect horseradish peroxidase from H <sub>2</sub> O <sub>2</sub> -induced inactivation and modulate its catalase-like activity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2060-2069.	1.1	13
13	Nitroxide radicals as research tools: Elucidating the kinetics and mechanisms of catalase-like and –suicide inactivation– of metmyoglobin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 1409-1416.	1.1	7
14	Nitrite Reduction to Nitrous Oxide and Ammonia by TiO <sub>2</sub> Electrons in a Colloid Solution via Consecutive One-Electron Transfer Reactions. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2307-2312.	1.1	21
15	Nitroxides catalytically inhibit nitrite oxidation and heme inactivation induced by H <sub>2</sub> O <sub>2</sub> , nitrite and metmyoglobin or methemoglobin. <i>Free Radical Biology and Medicine</i> , 2016, 101, 491-499.	1.3	9
16	Cyclic nitroxide radicals attenuate inflammation and Hyper-responsiveness in a mouse model of allergic asthma. <i>Free Radical Biology and Medicine</i> , 2015, 87, 148-156.	1.3	9
17	Nitric Oxide Reduction to Ammonia by TiO <sub>2</sub> Electrons in Colloid Solution via Consecutive One-Electron Transfer Steps. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2760-2769.	1.1	11
18	Oxidation Mechanism of Hydroxamic Acids Forming HNO and NO. <i>Advances in Inorganic Chemistry</i> , 2015, 67, 315-333.	0.4	2

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19	Synergistic activity of acetohydroxamic acid on prokaryotes under oxidative stress: The role of reactive nitrogen species. <i>Free Radical Biology and Medicine</i> , 2014, 77, 291-297.	1.3	7
20	Redox Properties of Benzoquinone Ansamycins in Aqueous Solutions. <i>Israel Journal of Chemistry</i> , 2014, 54, 316-320.	1.0	0
21	Suberoylanilide hydroxamic acid radiosensitizes tumor hypoxic cells in vitro through the oxidation of nitroxyl to nitric oxide. <i>Free Radical Biology and Medicine</i> , 2014, 73, 291-298.	1.3	23
22	The chemistry and biological activities of N-acetylcysteine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4117-4129.	1.1	620
23	The use of cyclic nitroxide radicals as HNO scavengers. <i>Journal of Inorganic Biochemistry</i> , 2013, 118, 155-161.	1.5	17
24	Comment on "Mechanism of Pt <sup>IV</sup> Sonochemical Reduction in Formic Acid Media and Pure Water". <i>Chemistry - A European Journal</i> , 2013, 19, 17210-17212.	1.7	2
25	Redox Properties and Thiol Reactivity of Geldanamycin and its Analogues in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6404-6410.	1.2	11
26	The mechanism underlying nitroxyl and nitric oxide formation from hydroxamic acids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1560-1566.	1.1	18
27	One-Electron Reduction of 17-(Dimethylaminoethylamino)-17-demethoxygeldanamycin: A Pulse Radiolysis Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8928-8932.	1.1	11
28	One-Electron Oxidation of Acetohydroxamic Acid: The Intermediacy of Nitroxyl and Peroxynitrite. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3022-3028.	1.1	29
29	Reactive oxygen species mediate hepatotoxicity induced by the Hsp90 inhibitor geldanamycin and its analogs. <i>Free Radical Biology and Medicine</i> , 2010, 48, 1559-1563.	1.3	71
30	On the Distinction between Nitroxyl and Nitric Oxide Using Nitronyl Nitroxides. <i>Journal of the American Chemical Society</i> , 2010, 132, 8428-8432.	6.6	57
31	Thiyl radicals react with nitric oxide to form S-nitrosothiols with rate constants near the diffusion-controlled limit. <i>Free Radical Biology and Medicine</i> , 2008, 44, 2013-2018.	1.3	95
32	Kinetics of the Reaction between Nitroxide and Thiyl Radicals: Nitroxides as Antioxidants in the Presence of Thiols. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8600-8605.	1.1	55
33	The Chemistry of Peroxynitrite: Implications for Biological Activity. <i>Methods in Enzymology</i> , 2008, 436, 49-61.	0.4	119
34	Polychromatic UV Photon Irradiance Measurements Using Chemical Actinometers Based on NO <sub>3</sub> <sup>•</sup> and H <sub>2</sub> O <sub>2</sub> Excitation: Applications for Industrial Photoreactors. <i>Environmental Science &amp; Technology</i> , 2008, 42, 3248-3253.	4.6	18
35	Kinetics and Mechanism of Peroxyl Radical Reactions with Nitroxides. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1066-1072.	1.1	86
36	Mechanism of Nitrite Formation by Nitrate Photolysis in Aqueous Solutions: The Role of Peroxynitrite, Nitrogen Dioxide, and Hydroxyl Radical. <i>Journal of the American Chemical Society</i> , 2007, 129, 10597-10601.	6.6	210

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37	Photolysis of Aqueous $H_2O_2$ : Quantum Yield and Applications for Polychromatic UV Actinometry in Photoreactors. <i>Environmental Science &amp; Technology</i> , 2007, 41, 7486-7490.	4.6	192
38	Mode of Action of Poly(vinylpyridine-N-oxide) in Preventing Silicosis: Effective Scavenging of Carbonate Anion Radical. <i>Chemical Research in Toxicology</i> , 2006, 19, 86-91.	1.7	7
39	Structure-Activity Relationship of Cyclic Nitroxides as SOD Mimics and Scavengers of Nitrogen Dioxide and Carbonate Radicals. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3679-3685.	1.1	87
40	Kinetic properties of Cu,Zn-superoxide dismutase as a function of metal content Order restored. <i>Free Radical Biology and Medicine</i> , 2006, 41, 937-941.	1.3	50
41	Kinetics and mechanism of the comproportionation reaction between oxoammonium cation and hydroxylamine derived from cyclic nitroxides. <i>Free Radical Biology and Medicine</i> , 2005, 38, 317-324.	1.3	91
42	Osmium tetroxide, used in the treatment of arthritic joints, is a fast mimic of superoxide dismutase. <i>Free Radical Biology and Medicine</i> , 2005, 38, 839-845.	1.3	15
43	Intra- and intermolecular oxidation of oxymyoglobin and oxyhemoglobin induced by hydroxyl and carbonate radicals. <i>Free Radical Biology and Medicine</i> , 2005, 39, 511-519.	1.3	25
44	Chemistry of Peroxynitrites as Compared to Peroxynitrates. <i>Chemical Reviews</i> , 2005, 105, 2457-2470.	23.0	354
45	Kinetics and Mechanism of $NO_2$ Reacting with Various Oxidation States of Myoglobin. <i>Journal of the American Chemical Society</i> , 2004, 126, 15694-15701.	6.6	51
46	Effect of Sorbic Alcohol on the Radiolysis of Aromatic Compounds in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3416-3420.	1.1	0
47	Reactions of Nitric Oxide, Peroxynitrite, and Carbonate Radicals with Nitroxides and Their Corresponding Oxoammonium Cations. <i>Chemical Research in Toxicology</i> , 2004, 17, 250-257.	1.7	59
48	Reaction of Organic Peroxyl Radicals with $NO_2$ and $NO$ in Aqueous Solution: Intermediacy of Organic Peroxynitrate and Peroxynitrite Species. <i>Journal of Physical Chemistry A</i> , 2004, 108, 1719-1725.	1.1	41
49	The Role of Oxoammonium Cation in the SOD-Mimic Activity of Cyclic Nitroxides. <i>Journal of the American Chemical Society</i> , 2003, 125, 789-795.	6.6	131
50	Direct Determination of the Gibbs' Energy of Formation of Peroxynitrous Acid. <i>Inorganic Chemistry</i> , 2003, 42, 3796-3800.	1.9	33
51	Reaction of Cyclic Nitroxides with Nitrogen Dioxide: The Intermediacy of the Oxoammonium Cations. <i>Journal of the American Chemical Society</i> , 2003, 125, 8364-8370.	6.6	61
52	Reactions of PTIO and Carboxy-PTIO with $\dot{A}NO$ , $\dot{A}NO_2$ , and $O_2\dot{A}^-$ . <i>Journal of Biological Chemistry</i> , 2003, 278, 50949-50955.	1.6	176
53	Kinetics of Paraquat and Copper Reactions with Nitroxides: The Effects of Nitroxides on the Aerobic and Anoxic Toxicity of Paraquat. <i>Chemical Research in Toxicology</i> , 2002, 15, 686-691.	1.7	10
54	Kinetics and Mechanism of Hydroxyl Radical and OH-Adduct Radical Reactions with Nitroxides and with Their Hydroxylamines. <i>Journal of the American Chemical Society</i> , 2002, 124, 8719-8724.	6.6	152

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55	The reaction of ONOO <sup>-</sup> with carbonyls: Estimation of the half-lives of ONOOC(O) <sup>-</sup> and O <sub>2</sub> NOOC(O) <sup>-</sup> Based on the presentation given at Dalton Discussion No. 4, 10 <sup>th</sup> 13th January 2002, Kloster Banz, Germany.. Dalton Transactions RSC, 2002, , 808-810.	2.3	11
56	Gibbs Energy of Formation of Peroxynitrite Order Restored. Chemical Research in Toxicology, 2001, 14, 657-660.	1.7	26
57	Carbonate Radical Ion Is the Only Observable Intermediate in the Reaction of Peroxynitrite with CO <sub>2</sub> . Chemical Research in Toxicology, 2001, 14, 1273-1276.	1.7	62
58	High-Pressure Pulse-Radiolysis Study of the Formation and Decomposition of Complexes with Iron <sup>III</sup> -Carbon $\sigma$ Bonds: A Mechanistic Comparison for Different Metal Centers. Inorganic Chemistry, 2001, 40, 4966-4970.	1.9	8
59	Ligand Effects on the Kinetics of the Reversible Binding of NO to Selected Aminocarboxylate Complexes of Iron(II) in Aqueous Solution. European Journal of Inorganic Chemistry, 2001, 2001, 2317-2325.	1.0	53
60	Tyrosine Nitration by Simultaneous Generation of $\cdot$ NO and O <sub>2</sub> <sup>-</sup> under Physiological Conditions. Journal of Biological Chemistry, 2000, 275, 3031-3036.	1.6	170
61	Evidence for Adduct Formation between ONOO <sup>-</sup> and CO <sub>2</sub> from High-Pressure Pulse Radiolysis. Journal of Physical Chemistry A, 2000, 104, 9712-9714.	1.1	10
62	Reactivity of Peroxynitrite versus Simultaneous Generation of $\cdot$ NO and O <sub>2</sub> <sup>-</sup> toward NADH. Chemical Research in Toxicology, 2000, 13, 736-741.	1.7	68
63	Viscosity Effects on the Reaction of Peroxynitrite with CO <sub>2</sub> : Evidence for Radical Formation in a Solvent Cage. Journal of the American Chemical Society, 1999, 121, 2444-2447.	6.6	53
64	Effect of $\cdot$ NO on the Decomposition of Peroxynitrite: Reaction of N <sub>2</sub> O <sub>3</sub> with ONOO <sup>-</sup> . Chemical Research in Toxicology, 1999, 12, 132-136.	1.7	63
65	Comments on the Mechanism of the $\cdot$ Fenton-Like Reaction. Accounts of Chemical Research, 1999, 32, 547-550.	7.6	203
66	Formation of Peroxynitrate from the Reaction of Peroxynitrite with CO <sub>2</sub> : Evidence for Carbonate Radical Production. Journal of the American Chemical Society, 1998, 120, 3458-3463.	6.6	155
67	Oxidation of Peroxynitrite by Inorganic Radicals: A Pulse Radiolysis Study. Journal of the American Chemical Society, 1998, 120, 5549-5554.	6.6	56
68	Mechanism of Decomposition of Peroxynitric Ion (O <sub>2</sub> NOO <sup>-</sup> ): Evidence for the Formation of O <sub>2</sub> <sup>-</sup> and $\cdot$ NO <sub>2</sub> Radicals. Inorganic Chemistry, 1998, 37, 3943-3947.	1.9	56
69	The Effect of Bicarbonate on Oxidation by Peroxynitrite: Implication for Its Biological Activity. Inorganic Chemistry, 1997, 36, 5113-5117.	1.9	70
70	Mechanisms of Reactions of $\cdot$ NO with Complexes with Metal <sup>III</sup> -Carbon $\sigma$ -Bonds and with Aliphatic Radicals. Inorganic Chemistry, 1997, 36, 2893-2897.	1.9	3
71	Reactivity of Peroxynitric Acid (O <sub>2</sub> NOOH): A Pulse Radiolysis Study. Inorganic Chemistry, 1997, 36, 4156-4162.	1.9	44
72	Stimulation by Nitroxides of Catalase-like Activity of Hemeproteins. Journal of Biological Chemistry, 1996, 271, 26018-26025.	1.6	158

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73	Formation of Peroxynitrite from the Nitrosation of Hydrogen Peroxide by an Oxygenated Nitric Oxide Solution. <i>Inorganic Chemistry</i> , 1996, 35, 5935-5940.	1.9	27
74	Formation of Peroxynitrite from the Oxidation of Hydrogen Peroxide by Nitrosonium Ion (NO <sup>+</sup> ): A Pulse Radiolysis Study. <i>Inorganic Chemistry</i> , 1996, 35, 7735-7740.	1.9	11
75	Mechanism of the Nitrosation of Thiols and Amines by Oxygenated $\text{NO}$ Solutions: the Nature of the Nitrosating Intermediates. <i>Journal of the American Chemical Society</i> , 1996, 118, 3419-3425.	6.6	212
76	Comparison Between Different Assays for Superoxide Dismutase-Like Activity. <i>Free Radical Research Communications</i> , 1991, 12, 5-10.	1.8	15
77	Requirements for Sod Mimics Operating <i>In Vitro</i> to Work Also <i>In Vivo</i> . <i>Free Radical Research Communications</i> , 1991, 12, 167-171.	1.8	20
78	Determination of the Superoxide Dismutase-Like Activity of Cimetidine-Cu(II) Complexes. <i>Free Radical Research Communications</i> , 1991, 12, 205-210.	1.8	4
79	Sod-Like Activity Studies of Cytokinin-Copper(II) Complexes. <i>Free Radical Research Communications</i> , 1991, 12, 173-177.	1.8	11
80	The Relative Efficiency of Radicals in Radiation Damage to Deoxyribose. <i>Free Radical Research Communications</i> , 1991, 12, 67-73.	1.8	6
81	A Reinvestigation of the Reaction of Desferrioxamine with Superoxide Radicals. A Pulse Radiolysis Study. <i>Free Radical Research Communications</i> , 1990, 11, 231-240.	1.8	7
82	Transition Metal Complexes as Sensitizers or Protectors Against O <sub>2</sub> -Toxicity. <i>Free Radical Research Communications</i> , 1989, 6, 167-169.	1.8	3
83	The Uniqueness of Superoxide Dismutase (SOD) – Why Cannot Most Copper Compounds Substitute Sod <i>In vivo</i> ? <i>Free Radical Research Communications</i> , 1988, 4, 225-229.	1.8	25
84	What is Unique About Superoxide Toxicity as Compared to Other Biological Reductants? – A Hypothesis. <i>Free Radical Research Communications</i> , 1988, 4, 231-236.	1.8	41
85	Oxidation-Reduction Reactions of Iron Bleomycin in the Absence and Presence of DNA. <i>Free Radical Research Communications</i> , 1987, 2, 259-270.	1.8	9
86	Mechanism of Reduction of Bleomycin-Cu(II) by CO <sup>•</sup> and Oxidation of Bleomycin-Cu(I) by H <sub>2</sub> O <sub>2</sub> in the Absence and Presence of DNA. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1987, 51, 693-706.	1.0	11
87	When Do Metal Complexes Protect the Biological System from Superoxide Toxicity and When Do They Enhance It?. <i>Free Radical Research Communications</i> , 1986, 1, 157-161.	1.8	58
88	Mannitol as an OH <sup>•</sup> Scavenger in Aqueous Solutions and in Biological Systems. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1984, 46, 725-729.	1.0	120