Michael A Marletta

List of Publications by Year
in descending order

152 papers	18,212 citations	13854 67 h-index	12933 131 g-index
162 all docs	162 docs citations	162 times ranked	11322 citing authors

#	Article	IF	Citations
1	Macrophage oxidation of L-arginine to nitrite and nitrate: nitric oxide is an intermediate. Biochemistry, 1988, 27, 8706-8711.	1.2	1,597
2	Guanylate cyclase and the â‹…NO/cGMP signaling pathway. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1411, 334-350.	0.5	859
3	Nitric oxide synthase: Aspects concerning structure and catalysis. Cell, 1994, 78, 927-930.	13.5	847
4	Nitric oxide synthase is a cytochrome P-450 type hemoprotein. Biochemistry, 1992, 31, 6627-6631.	1.2	660
5	Soluble Guanylate Cyclase from Bovine Lung: Activation with Nitric Oxide and Carbon Monoxide and Spectral Characterization of the Ferrous and Ferric States. Biochemistry, 1994, 33, 5636-5640.	1.2	660
6	Cellobiose Dehydrogenase and a Copper-Dependent Polysaccharide Monooxygenase Potentiate Cellulose Degradation by <i>Neurospora crassa</i>. ACS Chemical Biology, 2011, 6, 1399-1406.	1.6	568
7	Oxygen sensation and social feeding mediated by a C. elegans guanylate cyclase homologue. Nature, 2004, 430, 317-322.	13.7	529
8	Oxidative Cleavage of Cellulose by Fungal Copper-Dependent Polysaccharide Monooxygenases. Journal of the American Chemical Society, 2012, 134, 890-892.	6.6	412
9	Structure and Regulation of Soluble Guanylate Cyclase. Annual Review of Biochemistry, 2012, 81, 533-559.	5.0	388
10	Nitric oxide: biosynthesis and biological significance. Trends in Biochemical Sciences, 1989, 14, 488-492.	3.7	366
11	Spectral and Kinetic Studies on the Activation of Soluble Guanylate Cyclase by Nitric Oxideâ€. Biochemistry, 1996, 35, 1093-1099.	1.2	320
12	Systems analysis of plant cell wall degradation by the model filamentous fungus Neurospora crassa. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22157-22162.	3.3	310
13	Crystal structure of an oxygen-binding heme domain related to soluble guanylate cyclases. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12854-12859.	3.3	265
14	Thioredoxin catalyzes the S-nitrosation of the caspase-3 active site cysteine. , 2005, 1, 154-158.		258
15	Structural Basis for Substrate Targeting and Catalysis by Fungal Polysaccharide Monooxygenases. Structure, 2012, 20, 1051-1061.	1.6	257
16	Neurons Detect Increases and Decreases in Oxygen Levels Using Distinct Guanylate Cyclases. Neuron, 2009, 61, 865-879.	3.8	253
17	Cellulose Degradation by Polysaccharide Monooxygenases. Annual Review of Biochemistry, 2015, 84, 923-946.	5.0	246
18	Toward â€˜Omic Scale Metabolite Profiling: A Dual Separationâ€“Mass Spectrometry Approach for Coverage of Lipid and Central Carbon Metabolism. Analytical Chemistry, 2013, 85, 6876-6884.	3.2	242

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19	Mammalian synthesis of nitrite, nitrate, nitric oxide, and N-nitrosating agents. Chemical Research in Toxicology, 1988, 1, 249-257.	1.7	238
20	Formation of a Pterin Radical in the Reaction of the Heme Domain of Inducible Nitric Oxide Synthase with Oxygenâ€. Biochemistry, 1999, 38, 15689-15696.	1.2	229
21	Mechanisms of S-nitrosothiol formation and selectivity in nitric oxide signaling. Current Opinion in Chemical Biology, 2012, 16, 498-506.	2.8	228
22	A family of starch-active polysaccharide monooxygenases. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13822-13827.	3.3	222
23	Catalysis by nitric oxide synthase. Current Opinion in Chemical Biology, 1998, 2, 656-663.	2.8	221
24	Inhibition of Soluble Guanylate Cyclase by ODQ. Biochemistry, 2000, 39, 10848-10854.	1.2	208
25	Nitric oxide signaling: no longer simply on or off. Trends in Biochemical Sciences, 2006, 31, 231-239.	3.7	205
26	Determinants of Regioselective Hydroxylation in the Fungal Polysaccharide Monooxygenases. Journal of the American Chemical Society, 2014, 136, 562-565.	6.6	198
27	NG-Methyl-L-arginine functions as an alternate substrate and mechanism-based inhibitor of nitric oxide synthase. Biochemistry, 1993, 32, 9677-9685.	1.2	189
28	Binding of Nitric Oxide and Carbon Monoxide to Soluble Guanylate Cyclase As Observed with Resonance Raman Spectroscopy. Biochemistry, 1996, 35, 1540-1547.	1.2	189
29	Reactions Catalyzed by Tetrahydrobiopterin-Free Nitric Oxide Synthase. Biochemistry, 1998, 37, 15503-15512.	1.2	181
30	Identification of Histidine 105 in the Î²1 Subunit of Soluble Guanylate Cyclase as the Heme Proximal Ligandâ€. Biochemistry, 1998, 37, 4502-4509.	1.2	177
31	A molecular basis for NO selectivity in soluble guanylate cyclase. Nature Chemical Biology, 2005, 1, 53-59.	3.9	177
32	Spectroscopic Characterization of the Soluble Guanylate Cyclase-like Heme Domains fromVibrio choleraeandThermoanaerobacter tengcongensisâ€. Biochemistry, 2004, 43, 10203-10211.	1.2	176
33	Hydrogen Peroxide-Supported Oxidation of NG-Hydroxy-L-Arginine by Nitric Oxide Synthase. Biochemistry, 1995, 34, 1930-1941.	1.2	172
34	Nitric Oxide Modulates Bacterial Biofilm Formation through a Multicomponent Cyclic-di-GMP Signaling Network. Molecular Cell, 2012, 46, 449-460.	4.5	156
35	Reactivity of O ₂ versus H ₂ O ₂ with polysaccharide monooxygenases. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4915-4920.	3.3	144
36	Thioredoxin is required for S-nitrosation of procaspase-3 and the inhibition of apoptosis in Jurkat cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11609-11614.	3.3	143

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37	Tonic and acute nitric oxide signaling through soluble guanylate cyclase is mediated by nonheme nitric oxide, ATP, and GTP. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13064-13069.	3.3	140
38	Revisiting the kinetics of nitric oxide (NO) binding to soluble guanylate cyclase: The simple NO-binding model is incorrect. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12097-12101.	3.3	128
39	Spectral Characterization and Effect on Catalytic Activity of Nitric Oxide Complexes of Inducible Nitric Oxide Synthase. Biochemistry, 1995, 34, 5627-5634.	1.2	127
40	Localization of the Heme Binding Region in Soluble Guanylate Cyclaseâ€. Biochemistry, 1997, 36, 15959-15964.	1.2	127
41	A nitric oxide/cysteine interaction mediates the activation of soluble guanylate cyclase. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21602-21607.	3.3	125
42	Synergistic activation of soluble guanylate cyclase by YC-1 and carbon monoxide: implications for the role of cleavage of the iron-histidine bond during activation by nitric oxide. Chemistry and Biology, 1998, 5, 255-261.	6.2	119
43	Inactivation of macrophage nitric oxide synthase activity by NG-Methyl-L-arginine. Biochemical and Biophysical Research Communications, 1991, 177, 828-833.	1.0	113
44	Ligand specificity of H-NOX domains: from sGC to bacterial NO sensors. Journal of Inorganic Biochemistry, 2005, 99, 892-902.	1.5	108
45	Probing the Function of Heme Distortion in the H-NOX Family. ACS Chemical Biology, 2008, 3, 703-710.	1.6	108
46	Hâ€NOX regulation of câ€diâ€GMP metabolism and biofilm formation in <i>Legionella pneumophila</i>. Molecular Microbiology, 2010, 77, 930-942.	1.2	108
47	Biochemistry of Soluble Guanylate Cyclase. Handbook of Experimental Pharmacology, 2009, , 17-31.	0.9	106
48	Regeneration of the Ferrous Heme of Soluble Guanylate Cyclase from the Nitric Oxide Complex:â€‰ Acceleration by Thiols and Oxyhemoglobin. Biochemistry, 1998, 37, 16898-16907.	1.2	105
49	Subcellular Targeting and Differential S-Nitrosylation of Endothelial Nitric-oxide Synthase. Journal of Biological Chemistry, 2006, 281, 151-157.	1.6	103
50	H-NOXâ€“mediated nitric oxide sensing modulates symbiotic colonization by <i>Vibrio fischeri</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8375-8380.	3.3	100
51	Quantitative Proteomic Approach for Cellulose Degradation by <i>Neurospora crassa</i>. Journal of Proteome Research, 2011, 10, 4177-4185.	1.8	99
52	The crystal structure of the catalytic domain of a eukaryotic guanylate cyclase. BMC Structural Biology, 2008, 8, 42.	2.3	97
53	Ligand discrimination in soluble guanylate cyclase and the H-NOX family of heme sensor proteins. Current Opinion in Chemical Biology, 2005, 9, 441-446.	2.8	96
54	Nitric oxide-sensing H-NOX proteins govern bacterial communal behavior. Trends in Biochemical Sciences, 2013, 38, 566-575.	3.7	96

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55	Mechanistic probes of N-hydroxylation of L-arginine by the inducible nitric oxide synthase from murine macrophages. Biochemistry, 1992, 31, 6822-6828.	1.2	95
56	Interaction of Soluble Guanylate Cyclase with YC-1:â€‰ Kinetic and Resonance Raman Studies. Biochemistry, 2000, 39, 4191-4198.	1.2	95
57	Modulating Heme Redox Potential through Protein-Induced Porphyrin Distortion. Journal of the American Chemical Society, 2010, 132, 12794-12795.	6.6	93
58	Molecular architecture of mammalian nitric oxide synthases. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3614-23.	3.3	91
59	The Role of the Secondary Coordination Sphere in a Fungal Polysaccharide Monooxygenase. ACS Chemical Biology, 2017, 12, 1095-1103.	1.6	89
60	Structural insights into the role of ironâ€“histidine bond cleavage in nitric oxide-induced activation of H-NOX gas sensor proteins. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4156-64.	3.3	87
61	Expression and Characterization of the Catalytic Domains of Soluble Guanylate Cyclase:Â Interaction with the Heme Domainâ€. Biochemistry, 2005, 44, 4083-4090.	1.2	83
62	<i>Shewanella</i> <i>oneidensis</i> MR-1 H-NOX Regulation of a Histidine Kinase by Nitric Oxide. Biochemistry, 2007, 46, 13677-13683.	1.2	83
63	The Ferrous Heme of Soluble Guanylate Cyclase: Formation of Hexacoordinate Complexes with Carbon Monoxide and Nitrosomethane. Biochemistry, 1995, 34, 16397-16403.	1.2	75
64	Reactions Catalyzed by the Heme Domain of Inducible Nitric Oxide Synthase:Â Evidence for the Involvement of Tetrahydrobiopterin in Electron Transferâ€. Biochemistry, 2002, 41, 3439-3456.	1.2	75
65	Cellular Applications of a Sensitive and Selective Fiber-Optic Nitric Oxide Biosensor Based on a Dye-Labeled Heme Domain of Soluble Guanylate Cyclase. Analytical Chemistry, 1999, 71, 2071-2075.	3.2	73
66	Physiological activation and deactivation of soluble guanylate cyclase. Nitric Oxide - Biology and Chemistry, 2018, 77, 65-74.	1.2	72
67	Spectroscopic Characterization of the Heme-Binding Sites in Plasmodium falciparum Histidine-Rich Protein 2. Biochemistry, 1999, 38, 16916-16924.	1.2	70
68	Characterization of Functional Heme Domains from Soluble Guanylate Cyclaseâ€. Biochemistry, 2005, 44, 16266-16274.	1.2	70
69	A structural basis for H-NOX signaling in <i>Shewanella oneidensis</i> by trapping a histidine kinase inhibitory conformation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19753-19760.	3.3	70
70	S-Nitrosation and Regulation of Inducible Nitric Oxide Synthaseâ€. Biochemistry, 2005, 44, 4636-4647.	1.2	69
71	Nitric Oxide-Induced Conformational Changes in Soluble Guanylate Cyclase. Structure, 2014, 22, 602-611.	1.6	68
72	Nitric Oxide Binding to Prokaryotic Homologs of the Soluble Guanylate Cyclase Î²1 H-NOX Domain. Journal of Biological Chemistry, 2006, 281, 21892-21902.	1.6	66

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73	Allosteric activation of the nitric oxide receptor soluble guanylate cyclase mapped by cryo-electron microscopy. ELife, 2019, 8, .	2.8	66
74	The framework of polysaccharide monooxygenase structure and chemistry. Current Opinion in Structural Biology, 2015, 35, 93-99.	2.6	65
75	Structural Changes in the Heme Proximal Pocket Induced by Nitric Oxide Binding to Soluble Guanylate Cyclaseâ€. Biochemistry, 1998, 37, 12458-12464.	1.2	64
76	An Escherichia coli expressionâ€"based method for heme substitution. Nature Methods, 2007, 4, 43-45.	9.0	64
77	Physiological and Molecular Understanding of Bacterial Polysaccharide Monooxygenases. Microbiology and Molecular Biology Reviews, 2017, 81, .	2.9	63
78	NO formation by a catalytically self-sufficient bacterial nitric oxide synthase from <i>Sorangium cellulosum</i>. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16221-16226.	3.3	59
79	Distal Pocket Polarity in the Unusual Ligand Binding Site of Soluble Guanylate Cyclase:Â Implications for the Control ofâ€¢NO Binding. Journal of the American Chemical Society, 1996, 118, 8769-8770.	6.6	58
80	Ru-Porphyrin Protein Scaffolds for Sensing O₂. Journal of the American Chemical Society, 2010, 132, 5582-5583.	6.6	57
81	Heme-assisted S-Nitrosation Desensitizes Ferric Soluble Guanylate Cyclase to Nitric Oxide. Journal of Biological Chemistry, 2012, 287, 43053-43062.	1.6	57
82	Single-particle EM reveals the higher-order domain architecture of soluble guanylate cyclase. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2960-2965.	3.3	57
83	Spectral and Ligand-Binding Properties of an Unusual Hemoprotein, the Ferric Form of Soluble Guanylate Cyclaseâ€. Biochemistry, 1996, 35, 3258-3262.	1.2	56
84	Tunnels modulate ligand flux in a heme nitric oxide/oxygen binding (H-NOX) domain. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E881-9.	3.3	55
85	Higher-order interactions bridge the nitric oxide receptor and catalytic domains of soluble guanylate cyclase. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6777-6782.	3.3	54
86	Ability of Tetrahydrobiopterin Analogues to Support Catalysis by Inducible Nitric Oxide Synthase:Â Formation of a Pterin Radical Is Required for Enzyme Activityâ€. Biochemistry, 2003, 42, 13287-13303.	1.2	53
87	Dissociation of Nitric Oxide from Soluble Guanylate Cyclase and Heme-Nitric Oxide/Oxygen Binding Domain Constructs. Journal of Biological Chemistry, 2007, 282, 897-907.	1.6	50
88	The case of CO signaling: why the jury is still out. Journal of Clinical Investigation, 2001, 107, 1071-1073.	3.9	49
89	Resonance Raman Characterization of the Heme Domain of Soluble Guanylate Cyclaseâ€. Biochemistry, 1998, 37, 16289-16297.	1.2	48
90	Allorecognition upon Fungal Cell-Cell Contact Determines Social Cooperation and Impacts the Acquisition of Multicellularity. Current Biology, 2019, 29, 3006-3017.e3.	1.8	47

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91	Chemoproteomic Strategy to Quantitatively Monitor Transnitrosation Uncovers Functionally Relevant S -Nitrosation Sites on Cathepsin D and HADH2. Cell Chemical Biology, 2016, 23, 727-737.	2.5	41
92	Sensitive and Selective Detection of Nitric Oxide Using an Hâˆ'NOX Domain. Journal of the American Chemical Society, 2006, 128, 10022-10023.	6.6	39
93	Porphyrin-Substituted H-NOX Proteins as High-Relaxivity MRI Contrast Agents. Inorganic Chemistry, 2013, 52, 2277-2279.	1.9	38
94	Nucleotide Regulation of Soluble Guanylate Cyclase Substrate Specificity. Biochemistry, 2009, 48, 7519-7524.	1.2	37
95	Structural insights into the molecular mechanism of Hâ€NOX activation. Protein Science, 2010, 19, 881-887.	3.1	36
96	Structural and Functional Evidence Indicates Selective Oxygen Signaling in <i>Caldanaerobacter subterraneus</i> H-NOX. ACS Chemical Biology, 2016, 11, 2337-2346.	1.6	36
97	Calcium Binding Sites of Calmodulin and Electron Transfer by Neuronal Nitric Oxide Synthaseâ€. Biochemistry, 1997, 36, 12337-12345.	1.2	35
98	Characterization of Two Different Five-Coordinate Soluble Guanylate Cyclase Ferrousâ€"Nitrosyl Complexes. Biochemistry, 2008, 47, 3892-3899.	1.2	33
99	Determinants of Ligand Affinity and Heme Reactivity in Hâ€NOX Domains. Angewandte Chemie - International Edition, 2010, 49, 720-723.	7.2	33
100	Starch-degrading polysaccharide monooxygenases. Cellular and Molecular Life Sciences, 2016, 73, 2809-2819.	2.4	33
101	Nitric Oxide Mediates Biofilm Formation and Symbiosis in <i>Silicibacter</i> sp. Strain TrichCH4B. MBio, 2015, 6, e00206-15.	1.8	32
102	Glycosidic Bond Hydroxylation by Polysaccharide Monooxygenases. Trends in Chemistry, 2019, 1, 198-209.	4.4	32
103	Direct <i>meso</i>â€Alkynylation of Metalloporphyrins Through Gold Catalysis for Hemoprotein Engineering. Angewandte Chemie - International Edition, 2014, 53, 2611-2614.	7.2	31
104	Substrate selectivity in starch polysaccharide monooxygenases. Journal of Biological Chemistry, 2019, 294, 12157-12166.	1.6	31
105	Ligand Binding and Inhibition of an Oxygen-Sensitive Soluble Guanylate Cyclase, Gyc-88E, from <i>Drosophila</i>. Biochemistry, 2007, 46, 15115-15122.	1.2	29
106	A Random-Sequential Kinetic Mechanism for Polysaccharide Monooxygenases. Biochemistry, 2018, 57, 3191-3199.	1.2	29
107	Butyl Isocyanide as a Probe of the Activation Mechanism of Soluble Guanylate Cyclase. Journal of Biological Chemistry, 2007, 282, 35741-35748.	1.6	28
108	Resonance Raman Spectra of an O₂-Binding H-NOX Domain Reveal Heme Relaxation upon Mutation. Biochemistry, 2009, 48, 8568-8577.	1.2	28

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109	Use of a semisynthetic epitope to probe histidine kinase activity and regulation. Analytical Biochemistry, 2010, 397, 139-143.	1.1	28
110	Insight into the Rescue of Oxidized Soluble Guanylate Cyclase by the Activator Cinaciguat. ChemBioChem, 2012, 13, 977-981.	1.3	28
111	Probing Soluble Guanylate Cyclase Activation by CO and YC-1 Using Resonance Raman Spectroscopy. Biochemistry, 2010, 49, 3815-3823.	1.2	27
112	A new decoration for nitric oxide synthase â€“ a Zn(Cys)4 site. Structure, 1999, 7, R73-R79.	1.6	25
113	Phosphorylation-dependent derepression by the response regulator HnoC in the <i>Shewanella oneidensis</i> nitric oxide signaling network. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4648-57.	3.3	24
114	Soluble Guanylate Cyclase Is Activated Differently by Excess NO and by YC-1: Resonance Raman Spectroscopic Evidence. Biochemistry, 2010, 49, 4864-4871.	1.2	23
115	Regulation of nitric oxide signaling by formation of a distal receptorâ€"ligand complex. Nature Chemical Biology, 2017, 13, 1216-1221.	3.9	23
116	Carbon-13 nuclear magnetic resonance studies of creatine, creatinine and some of their analogs. Magnetic Resonance in Chemistry, 1980, 13, 79-88.	0.7	22
117	The design and synthesis of YC-1 analogues as probes for soluble guanylate cyclase. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 618-621.	1.0	22
118	Nitric Oxide-Induced Conformational Changes Govern H-NOX and Histidine Kinase Interaction and Regulation in <i>Shewanella oneidensis</i>. Biochemistry, 2017, 56, 1274-1284.	1.2	22
119	l-Arginine analogs as alternate substrates for nitric oxide synthase. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3934-3941.	1.0	20
120	Structural Perspectives on the Mechanism of Soluble Guanylate Cyclase Activation. International Journal of Molecular Sciences, 2021, 22, 5439.	1.8	20
121	Designer Heme Proteins: Achieving Novel Function with Abiological Heme Analogues. Accounts of Chemical Research, 2021, 54, 4565-4575.	7.6	20
122	Structural Insight into Hâ€NOX Gas Sensing and Cognate Signaling Protein Regulation. ChemBioChem, 2019, 20, 7-19.	1.3	19
123	Characterization of Nitrosoalkane Binding and Activation of Soluble Guanylate Cyclaseâ€. Biochemistry, 2005, 44, 16257-16265.	1.2	18
124	Spectroscopic and kinetic studies of Nor1, a cytochrome P450 nitric oxide reductase from the fungal pathogen Histoplasma capsulatum. Archives of Biochemistry and Biophysics, 2008, 480, 132-137.	1.4	18
125	Ceragenins and Antimicrobial Peptides Kill Bacteria through Distinct Mechanisms. MBio, 2022, 13, e0272621.	1.8	18
126	Trace Elements and Nitric Oxide function. Journal of Nutrition, 2003, 133, 1431S-1433S.	1.3	17

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127	Incorporation of Tyrosine and Glutamine Residues into the Soluble Guanylate Cyclase Heme Distal Pocket Alters NO and O2 Binding. Journal of Biological Chemistry, 2010, 285, 17471-17478.	1.6	17
128	Controlling Conformational Flexibility of an O₂-Binding H-NOX Domain. Biochemistry, 2011, 50, 6832-6840.	1.2	17
129	Corrole-Substituted Fluorescent Heme Proteins. Inorganic Chemistry, 2021, 60, 2716-2729.	1.9	17
130	Probing Domain Interactions in Soluble Guanylate Cyclase. Biochemistry, 2011, 50, 4281-4290.	1.2	15
131	Conformationally Distinct Five-Coordinate Hemeâ€“NO Complexes of Soluble Guanylate Cyclase Elucidated by Multifrequency Electron Paramagnetic Resonance (EPR). Biochemistry, 2012, 51, 8384-8390.	1.2	14
132	Porphyrin Ï€-stacking in a heme protein scaffold tunes gas ligand affinity. Journal of Inorganic Biochemistry, 2013, 127, 7-12.	1.5	14
133	Comparative and integrative metabolomics reveal that S-nitrosation inhibits physiologically relevant metabolic enzymes. Journal of Biological Chemistry, 2018, 293, 6282-6296.	1.6	14
134	The Influence of Nitric Oxide on Soluble Guanylate Cyclase Regulation by Nucleotides. Journal of Biological Chemistry, 2015, 290, 15570-15580.	1.6	13
135	Raising Enzymes from the Dead and the Secrets They Can Tell. ACS Chemical Biology, 2006, 1, 73-74.	1.6	12
136	Structural Dynamics in the Guanylate Cyclase Heme Pocket after CO Photolysis. Journal of the American Chemical Society, 1999, 121, 7397-7400.	6.6	11
137	Mapping the H-NOX/HK Binding Interface in <i>Vibrio cholerae</i> by Hydrogen/Deuterium Exchange Mass Spectrometry. Biochemistry, 2018, 57, 1779-1789.	1.2	11
138	Characterization of a Carbon Monoxide-Activated Soluble Guanylate Cyclase fromChlamydomonas reinhardtii. Biochemistry, 2019, 58, 2250-2259.	1.2	11
139	An iron (II) dependent oxygenase performs the last missing step of plant lysine catabolism. Nature Communications, 2020, 11, 2931.	5.8	11
140	Revisiting Nitric Oxide Signaling: Where Was It, and Where Is It Going?. Biochemistry, 2021, 60, 3491-3496.	1.2	11
141	4,4-Difluorinated analogues of l-arginine and NG-hydroxy-l-arginine as mechanistic probes for nitric oxide synthase. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1758-1762.	1.0	10
142	Determinants of the Hemeâ€“CO Vibrational Modes in the H-NOX Family. Biochemistry, 2011, 50, 6519-6530.	1.2	10
143	Glycosidic Bond Oxidation: The Structure, Function, and Mechanism of Polysaccharide Monooxygenases. , 2020, , 298-331.		9
144	An Escherichia coli Expression-Based Approach for Porphyrin Substitution in Heme Proteins. Methods in Molecular Biology, 2013, 987, 95-106.	0.4	8

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145	Native Alanine Substitution in the Glycine Hinge Modulates Conformational Flexibility of Heme Nitric Oxide/Oxygen (H-NOX) Sensing Proteins. ACS Chemical Biology, 2018, 13, 1631-1639.	1.6	8
146	Nitric oxide signaling controls collective contractions in a colonial choanoflagellate. Current Biology, 2022, 32, 2539-2547.e5.	1.8	8
147	Synthesis and evaluation of a phosphonate analogue of the soluble guanylate cyclase activator YC-1. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 4938-4941.	1.0	7
148	A Dual-H-NOX Signaling System in <i>Saccharophagus degradans</i>. Biochemistry, 2018, 57, 6570-6580.	1.2	5
149	Effects of S-nitrosation of nitric oxide synthase. Advances in Experimental Biology, 2007, 1, 151-456.	0.1	4
150	Ratiometric Oxygen Sensing with H-NOX Protein Conjugates. Inorganic Chemistry, 2022, 61, 10521-10532.	1.9	3
151	Corroleâ€"protein interactions in H-NOX and HasA. RSC Chemical Biology, 0, , .	2.0	2
152	From metals to radicals to light to loops: regulating complex reactions. Current Opinion in Structural Biology, 2010, 20, 657-658.	2.6	0