

# Michael A Marletta

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

150  
papers

15,921  
citations

66  
h-index

125  
g-index

162  
ext. papers

17,133  
ext. citations

7.6  
avg, IF

6.85  
L-index

#	Paper	IF	Citations
150	Ceragenins and Antimicrobial Peptides Kill Bacteria through Distinct Mechanisms.. <i>MBio</i> , <b>2022</b> , e02726217.	7.8	3
149	Structural Perspectives on the Mechanism of Soluble Guanylate Cyclase Activation. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
148	Revisiting Nitric Oxide Signaling: Where Was It, and Where Is It Going?. <i>Biochemistry</i> , <b>2021</b> , 60, 3491-3496.	6.2	3
147	Corrole-Substituted Fluorescent Heme Proteins. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 2716-2729	5.1	6
146	An iron (II) dependent oxygenase performs the last missing step of plant lysine catabolism. <i>Nature Communications</i> , <b>2020</b> , 11, 2931	17.4	2
145	Glycosidic Bond Oxidation: The Structure, Function, and Mechanism of Polysaccharide Monooxygenases <b>2020</b> , 298-331		4
144	Allorecognition upon Fungal Cell-Cell Contact Determines Social Cooperation and Impacts the Acquisition of Multicellularity. <i>Current Biology</i> , <b>2019</b> , 29, 3006-3017.e3	6.3	26
143	Substrate selectivity in starch polysaccharide monooxygenases. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 12157-12166	5.4	19
142	Glycosidic Bond Hydroxylation by Polysaccharide Monooxygenases. <i>Trends in Chemistry</i> , <b>2019</b> , 1, 198-209.	4.8	18
141	Characterization of a Carbon Monoxide-Activated Soluble Guanylate Cyclase from <i>Chlamydomonas reinhardtii</i> . <i>Biochemistry</i> , <b>2019</b> , 58, 2250-2259	3.2	7
140	Allosteric activation of the nitric oxide receptor soluble guanylate cyclase mapped by cryo-electron microscopy. <i>ELife</i> , <b>2019</b> , 8,	8.9	41
139	Structural Insight into H-NOX Gas Sensing and Cognate Signaling Protein Regulation. <i>ChemBioChem</i> , <b>2019</b> , 20, 7-19	3.8	11
138	Comparative and integrative metabolomics reveal that -nitrosation inhibits physiologically relevant metabolic enzymes. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 6282-6296	5.4	8
137	Mapping the H-NOX/HK Binding Interface in <i>Vibrio cholerae</i> by Hydrogen/Deuterium Exchange Mass Spectrometry. <i>Biochemistry</i> , <b>2018</b> , 57, 1779-1789	3.2	8
136	A Random-Sequential Kinetic Mechanism for Polysaccharide Monooxygenases. <i>Biochemistry</i> , <b>2018</b> , 57, 3191-3199	3.2	21
135	Reactivity of O versus HO with polysaccharide monooxygenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 4915-4920	11.5	103
134	Physiological activation and deactivation of soluble guanylate cyclase. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2018</b> , 77, 65-74	5	44

133	A Dual-H-NOX Signaling System in Saccharophagus degradans. <i>Biochemistry</i> , <b>2018</b> , 57, 6570-6580	3.2	2
132	Native Alanine Substitution in the Glycine Hinge Modulates Conformational Flexibility of Heme Nitric Oxide/Oxygen (H-NOX) Sensing Proteins. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 1631-1639	4.9	6
131	The Role of the Secondary Coordination Sphere in a Fungal Polysaccharide Monooxygenase. <i>ACS Chemical Biology</i> , <b>2017</b> , 12, 1095-1103	4.9	67
130	Nitric Oxide-Induced Conformational Changes Govern H-NOX and Histidine Kinase Interaction and Regulation in <i>Shewanella oneidensis</i> . <i>Biochemistry</i> , <b>2017</b> , 56, 1274-1284	3.2	18
129	Regulation of nitric oxide signaling by formation of a distal receptor-ligand complex. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 1216-1221	11.7	19
128	Physiological and Molecular Understanding of Bacterial Polysaccharide Monooxygenases. <i>Microbiology and Molecular Biology Reviews</i> , <b>2017</b> , 81,	13.2	34
127	Chemoproteomic Strategy to Quantitatively Monitor Transnitrosation Uncovers Functionally Relevant S-Nitrosation Sites on Cathepsin D and HADH2. <i>Cell Chemical Biology</i> , <b>2016</b> , 23, 727-37	8.2	31
126	Starch-degrading polysaccharide monooxygenases. <i>Cellular and Molecular Life Sciences</i> , <b>2016</b> , 73, 2809-1803	10.3	24
125	Structural and Functional Evidence Indicates Selective Oxygen Signaling in <i>Caldanaerobacter subterraneus</i> H-NOX. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 2337-46	4.9	28
124	Nitric Oxide Mediates Biofilm Formation and Symbiosis in <i>Silicibacter</i> sp. Strain TrichCH4B. <i>MBio</i> , <b>2015</b> , 6, e00206-15	7.8	24
123	The Influence of Nitric Oxide on Soluble Guanylate Cyclase Regulation by Nucleotides: ROLE OF THE PSEUDOSYMMETRIC SITE. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 15570-15580	5.4	12
122	Cellulose degradation by polysaccharide monooxygenases. <i>Annual Review of Biochemistry</i> , <b>2015</b> , 84, 923-461	26.1	204
121	The framework of polysaccharide monooxygenase structure and chemistry. <i>Current Opinion in Structural Biology</i> , <b>2015</b> , 35, 93-9	8.1	54
120	Nitric oxide-induced conformational changes in soluble guanylate cyclase. <i>Structure</i> , <b>2014</b> , 22, 602-11	5.2	64
119	Molecular architecture of mammalian nitric oxide synthases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E3614-23	11.5	77
118	Structural insights into the role of iron-histidine bond cleavage in nitric oxide-induced activation of H-NOX gas sensor proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E4156-64	11.5	70
117	Determinants of regioselective hydroxylation in the fungal polysaccharide monooxygenases. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 562-5	16.4	161
116	A family of starch-active polysaccharide monooxygenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 13822-7	11.5	183

115	Direct meso-Alkynylation of Metalloporphyrins Through Gold Catalysis for Hemoprotein Engineering. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 2649-2652	3.6	8
114	Direct meso-alkynylation of metalloporphyrins through gold catalysis for hemoprotein engineering. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2611-4	16.4	25
113	Single-particle EM reveals the higher-order domain architecture of soluble guanylate cyclase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 2960-5	11.5	50
112	Toward omic scale metabolite profiling: a dual separation-mass spectrometry approach for coverage of lipid and central carbon metabolism. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6876-84	7.8	204
111	Nitric oxide-sensing H-NOX proteins govern bacterial communal behavior. <i>Trends in Biochemical Sciences</i> , <b>2013</b> , 38, 566-75	10.3	78
110	Phosphorylation-dependent derepression by the response regulator HnoC in the <i>Shewanella oneidensis</i> nitric oxide signaling network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E4648-57	11.5	14
109	An <i>Escherichia coli</i> expression-based approach for porphyrin substitution in heme proteins. <i>Methods in Molecular Biology</i> , <b>2013</b> , 987, 95-106	1.4	6
108	Porphyrin stacking in a heme protein scaffold tunes gas ligand affinity. <i>Journal of Inorganic Biochemistry</i> , <b>2013</b> , 127, 7-12	4.2	13
107	Porphyrin-substituted H-NOX proteins as high-relaxivity MRI contrast agents. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 2277-9	5.1	30
106	Higher-order interactions bridge the nitric oxide receptor and catalytic domains of soluble guanylate cyclase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 6777-82	11.5	52
105	Structural basis for substrate targeting and catalysis by fungal polysaccharide monooxygenases. <i>Structure</i> , <b>2012</b> , 20, 1051-61	5.2	224
104	Mechanisms of S-nitrosothiol formation and selectivity in nitric oxide signaling. <i>Current Opinion in Chemical Biology</i> , <b>2012</b> , 16, 498-506	9.7	190
103	Conformationally distinct five-coordinate heme-NO complexes of soluble guanylate cyclase elucidated by multifrequency electron paramagnetic resonance (EPR). <i>Biochemistry</i> , <b>2012</b> , 51, 8384-90	3.2	13
102	Nitric oxide modulates bacterial biofilm formation through a multicomponent cyclic-di-GMP signaling network. <i>Molecular Cell</i> , <b>2012</b> , 46, 449-60	17.6	131
101	Heme-assisted S-nitrosation desensitizes ferric soluble guanylate cyclase to nitric oxide. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 43053-62	5.4	47
100	Oxidative cleavage of cellulose by fungal copper-dependent polysaccharide monooxygenases. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 890-2	16.4	352
99	Insight into the rescue of oxidized soluble guanylate cyclase by the activator cinaciguat. <i>ChemBioChem</i> , <b>2012</b> , 13, 977-81	3.8	17
98	Structure and regulation of soluble guanylate cyclase. <i>Annual Review of Biochemistry</i> , <b>2012</b> , 81, 533-59	29.1	316

97	Cellobiose dehydrogenase and a copper-dependent polysaccharide monooxygenase potentiate cellulose degradation by <i>Neurospora crassa</i> . <i>ACS Chemical Biology</i> , <b>2011</b> , 6, 1399-406	4.9	474
96	Quantitative proteomic approach for cellulose degradation by <i>Neurospora crassa</i> . <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 4177-85	5.6	87
95	Determinants of the heme-CO vibrational modes in the H-NOX family. <i>Biochemistry</i> , <b>2011</b> , 50, 6519-30	3.2	9
94	Controlling conformational flexibility of an O <sub>2</sub> -binding H-NOX domain. <i>Biochemistry</i> , <b>2011</b> , 50, 6832-40	3.2	16
93	Probing domain interactions in soluble guanylate cyclase. <i>Biochemistry</i> , <b>2011</b> , 50, 4281-90	3.2	15
92	Tunnels modulate ligand flux in a heme nitric oxide/oxygen binding (H-NOX) domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, E881-9	11.5	49
91	H-NOX regulation of c-di-GMP metabolism and biofilm formation in <i>Legionella pneumophila</i> . <i>Molecular Microbiology</i> , <b>2010</b> , 77, 930-42	4.1	85
90	Incorporation of tyrosine and glutamine residues into the soluble guanylate cyclase heme distal pocket alters NO and O <sub>2</sub> binding. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 17471-8	5.4	17
89	H-NOX-mediated nitric oxide sensing modulates symbiotic colonization by <i>Vibrio fischeri</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 8375-80	11.5	82
88	Ru-porphyrin protein scaffolds for sensing O <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 5582-6	16.4	49
87	Soluble guanylate cyclase is activated differently by excess NO and by YC-1: resonance Raman spectroscopic evidence. <i>Biochemistry</i> , <b>2010</b> , 49, 4864-71	3.2	23
86	Probing soluble guanylate cyclase activation by CO and YC-1 using resonance Raman spectroscopy. <i>Biochemistry</i> , <b>2010</b> , 49, 3815-23	3.2	27
85	Modulating heme redox potential through protein-induced porphyrin distortion. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 12794-5	16.4	87
84	Determinants of ligand affinity and heme reactivity in H-NOX domains. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 720-3	16.4	30
83	Use of a semisynthetic epitope to probe histidine kinase activity and regulation. <i>Analytical Biochemistry</i> , <b>2010</b> , 397, 139-43	3.1	25
82	Structural insights into the molecular mechanism of H-NOX activation. <i>Protein Science</i> , <b>2010</b> , 19, 881-7	6.3	32
81	NO formation by a catalytically self-sufficient bacterial nitric oxide synthase from <i>Sorangium cellulosum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 16221-6	11.5	53
80	A structural basis for H-NOX signaling in <i>Shewanella oneidensis</i> by trapping a histidine kinase inhibitory conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 19753-60	11.5	66

79	A nitric oxide/cysteine interaction mediates the activation of soluble guanylate cyclase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 21602-7	11.5	112
78	4,4-Difluorinated analogues of l-arginine and N(G)-hydroxy-l-arginine as mechanistic probes for nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2009</b> , 19, 1758-62	2.9	10
77	Resonance Raman spectra of an O <sub>2</sub> -binding H-NOX domain reveal heme relaxation upon mutation. <i>Biochemistry</i> , <b>2009</b> , 48, 8568-77	3.2	27
76	Neurons detect increases and decreases in oxygen levels using distinct guanylate cyclases. <i>Neuron</i> , <b>2009</b> , 61, 865-79	13.9	196
75	Biochemistry of soluble guanylate cyclase. <i>Handbook of Experimental Pharmacology</i> , <b>2009</b> , 17-31	3.2	95
74	Systems analysis of plant cell wall degradation by the model filamentous fungus <i>Neurospora crassa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 22157-62	11.5	240
73	Nucleotide regulation of soluble guanylate cyclase substrate specificity. <i>Biochemistry</i> , <b>2009</b> , 48, 7519-24	3.2	31
72	Probing the function of heme distortion in the H-NOX family. <i>ACS Chemical Biology</i> , <b>2008</b> , 3, 703-10	4.9	98
71	Spectroscopic and kinetic studies of Nor1, a cytochrome P450 nitric oxide reductase from the fungal pathogen <i>Histoplasma capsulatum</i> . <i>Archives of Biochemistry and Biophysics</i> , <b>2008</b> , 480, 132-7	4.1	15
70	Characterization of two different five-coordinate soluble guanylate cyclase ferrous-nitrosyl complexes. <i>Biochemistry</i> , <b>2008</b> , 47, 3892-9	3.2	31
69	The crystal structure of the catalytic domain of a eukaryotic guanylate cyclase. <i>BMC Structural Biology</i> , <b>2008</b> , 8, 42	2.7	74
68	Effects of S-nitrosation of nitric oxide synthase. <i>Advances in Experimental Biology</i> , <b>2007</b> , 1, 151-456		3
67	Ligand binding and inhibition of an oxygen-sensitive soluble guanylate cyclase, Gyc-88E, from <i>Drosophila</i> . <i>Biochemistry</i> , <b>2007</b> , 46, 15115-22	3.2	25
66	Synthesis and evaluation of a phosphonate analogue of the soluble guanylate cyclase activator YC-1. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2007</b> , 17, 4938-41	2.9	6
65	An <i>Escherichia coli</i> expression-based method for heme substitution. <i>Nature Methods</i> , <b>2007</b> , 4, 43-5	21.6	54
64	Dissociation of nitric oxide from soluble guanylate cyclase and heme-nitric oxide/oxygen binding domain constructs. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 897-907	5.4	45
63	Thioredoxin is required for S-nitrosation of procaspase-3 and the inhibition of apoptosis in Jurkat cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 11609-14	11.5	122
62	Butyl isocyanide as a probe of the activation mechanism of soluble guanylate cyclase. Investigating the role of non-heme nitric oxide. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 35741-8	5.4	27

61	Shewanella oneidensis MR-1 H-NOX regulation of a histidine kinase by nitric oxide. <i>Biochemistry</i> , <b>2007</b> , 46, 13677-83	3.2	77
60	The design and synthesis of YC-1 analogues as probes for soluble guanylate cyclase. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2006</b> , 16, 618-21	2.9	21
59	Nitric oxide signaling: no longer simply on or off. <i>Trends in Biochemical Sciences</i> , <b>2006</b> , 31, 231-9	10.3	184
58	Subcellular targeting and differential S-nitrosylation of endothelial nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 151-7	5.4	93
57	Nitric oxide binding to prokaryotic homologs of the soluble guanylate cyclase beta1 H-NOX domain. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 21892-21902	5.4	61
56	Raising enzymes from the dead and the secrets they can tell. <i>ACS Chemical Biology</i> , <b>2006</b> , 1, 73-4	4.9	6
55	Sensitive and selective detection of nitric oxide using an H-NOX domain. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10022-3	16.4	36
54	S-Nitrosation and regulation of inducible nitric oxide synthase. <i>Biochemistry</i> , <b>2005</b> , 44, 4636-47	3.2	64
53	Characterization of nitrosoalkane binding and activation of soluble guanylate cyclase. <i>Biochemistry</i> , <b>2005</b> , 44, 16257-65	3.2	17
52	Characterization of functional heme domains from soluble guanylate cyclase. <i>Biochemistry</i> , <b>2005</b> , 44, 16266-74	3.2	67
51	Expression and characterization of the catalytic domains of soluble guanylate cyclase: interaction with the heme domain. <i>Biochemistry</i> , <b>2005</b> , 44, 4083-90	3.2	80
50	Ligand specificity of H-NOX domains: from sGC to bacterial NO sensors. <i>Journal of Inorganic Biochemistry</i> , <b>2005</b> , 99, 892-902	4.2	101
49	Ligand discrimination in soluble guanylate cyclase and the H-NOX family of heme sensor proteins. <i>Current Opinion in Chemical Biology</i> , <b>2005</b> , 9, 441-6	9.7	89
48	A molecular basis for NO selectivity in soluble guanylate cyclase. <i>Nature Chemical Biology</i> , <b>2005</b> , 1, 53-9	11.7	164
47	Thioredoxin catalyzes the S-nitrosation of the caspase-3 active site cysteine	<b>2005</b> , 1, 154-8	228
46	L-arginine analogs as alternate substrates for nitric oxide synthase. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2005</b> , 15, 3934-41	2.9	18
45	Tonic and acute nitric oxide signaling through soluble guanylate cyclase is mediated by nonheme nitric oxide, ATP, and GTP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 13064-9	11.5	127
44	Crystal structure of an oxygen-binding heme domain related to soluble guanylate cyclases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 12854-9	11.5	247

43	Spectroscopic characterization of the soluble guanylate cyclase-like heme domains from <i>Vibrio cholerae</i> and <i>Thermoanaerobacter tengcongensis</i> . <i>Biochemistry</i> , <b>2004</b> , 43, 10203-11	3.2	164
42	Oxygen sensation and social feeding mediated by a <i>C. elegans</i> guanylate cyclase homologue. <i>Nature</i> , <b>2004</b> , 430, 317-22	50.4	442
41	Trace elements and nitric oxide function. <i>Journal of Nutrition</i> , <b>2003</b> , 133, 1431S-3S	4.1	16
40	Ability of tetrahydrobiopterin analogues to support catalysis by inducible nitric oxide synthase: formation of a pterin radical is required for enzyme activity. <i>Biochemistry</i> , <b>2003</b> , 42, 13287-303	3.2	50
39	Revisiting the kinetics of nitric oxide (NO) binding to soluble guanylate cyclase: the simple NO-binding model is incorrect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 12097-101	11.5	118
38	Reactions catalyzed by the heme domain of inducible nitric oxide synthase: evidence for the involvement of tetrahydrobiopterin in electron transfer. <i>Biochemistry</i> , <b>2002</b> , 41, 3439-56	3.2	73
37	The case of CO signaling: why the jury is still out. <i>Journal of Clinical Investigation</i> , <b>2001</b> , 107, 1071-3	15.9	44
36	Interaction of soluble guanylate cyclase with YC-1: kinetic and resonance Raman studies. <i>Biochemistry</i> , <b>2000</b> , 39, 4191-8	3.2	86
35	Inhibition of soluble guanylate cyclase by ODC. <i>Biochemistry</i> , <b>2000</b> , 39, 10848-54	3.2	185
34	A new decoration for nitric oxide synthase - a Zn(Cys) <sub>4</sub> site. <i>Structure</i> , <b>1999</b> , 7, R73-9	5.2	24
33	Guanylate cyclase and the .NO/cGMP signaling pathway. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1999</b> , 1411, 334-50	4.6	743
32	Cellular applications of a sensitive and selective fiber-optic nitric oxide biosensor based on a dye-labeled heme domain of soluble guanylate cyclase. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 2071-5	7.8	61
31	Structural Dynamics in the Guanylate Cyclase Heme Pocket after CO Photolysis. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 7397-7400	16.4	10
30	Formation of a pterin radical in the reaction of the heme domain of inducible nitric oxide synthase with oxygen. <i>Biochemistry</i> , <b>1999</b> , 38, 15689-96	3.2	218
29	Spectroscopic characterization of the heme-binding sites in <i>Plasmodium falciparum</i> histidine-rich protein 2. <i>Biochemistry</i> , <b>1999</b> , 38, 16916-24	3.2	64
28	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. <i>Chemistry and Biology</i> , <b>1998</b> , 5, 255-61		113
27	Catalysis by nitric oxide synthase. <i>Current Opinion in Chemical Biology</i> , <b>1998</b> , 2, 656-63	9.7	202
26	Reactions catalyzed by tetrahydrobiopterin-free nitric oxide synthase. <i>Biochemistry</i> , <b>1998</b> , 37, 15503-12	3.2	171



25	Regeneration of the ferrous heme of soluble guanylate cyclase from the nitric oxide complex: acceleration by thiols and oxyhemoglobin. <i>Biochemistry</i> , <b>1998</b> , 37, 16898-907	3.2	98
24	Structural changes in the heme proximal pocket induced by nitric oxide binding to soluble guanylate cyclase. <i>Biochemistry</i> , <b>1998</b> , 37, 12458-64	3.2	61
23	Resonance raman characterization of the heme domain of soluble guanylate cyclase. <i>Biochemistry</i> , <b>1998</b> , 37, 16289-97	3.2	43
22	Identification of histidine 105 in the beta1 subunit of soluble guanylate cyclase as the heme proximal ligand. <i>Biochemistry</i> , <b>1998</b> , 37, 4502-9	3.2	171
21	Calcium binding sites of calmodulin and electron transfer by neuronal nitric oxide synthase. <i>Biochemistry</i> , <b>1997</b> , 36, 12337-45	3.2	35
20	Localization of the heme binding region in soluble guanylate cyclase. <i>Biochemistry</i> , <b>1997</b> , 36, 15959-64	3.2	120
19	Spectral and ligand-binding properties of an unusual hemoprotein, the ferric form of soluble guanylate cyclase. <i>Biochemistry</i> , <b>1996</b> , 35, 3258-62	3.2	53
18	Binding of nitric oxide and carbon monoxide to soluble guanylate cyclase as observed with Resonance raman spectroscopy. <i>Biochemistry</i> , <b>1996</b> , 35, 1540-7	3.2	180
17	Distal Pocket Polarity in the Unusual Ligand Binding Site of Soluble Guanylate Cyclase: Implications for the Control of NO Binding. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 8769-8770	16.4	54
16	Spectral and kinetic studies on the activation of soluble guanylate cyclase by nitric oxide. <i>Biochemistry</i> , <b>1996</b> , 35, 1093-9	3.2	294
15	Nitric oxide complexes of inducible nitric oxide synthase: spectral characterization and effect on catalytic activity. <i>Biochemistry</i> , <b>1995</b> , 34, 5627-34	3.2	119
14	The ferrous heme of soluble guanylate cyclase: formation of hexacoordinate complexes with carbon monoxide and nitrosomethane. <i>Biochemistry</i> , <b>1995</b> , 34, 16397-403	3.2	71
13	Hydrogen peroxide-supported oxidation of NG-hydroxy-L-arginine by nitric oxide synthase. <i>Biochemistry</i> , <b>1995</b> , 34, 1930-41	3.2	165
12	Nitric oxide synthase: aspects concerning structure and catalysis. <i>Cell</i> , <b>1994</b> , 78, 927-30	56.2	796
11	Soluble guanylate cyclase from bovine lung: activation with nitric oxide and carbon monoxide and spectral characterization of the ferrous and ferric states. <i>Biochemistry</i> , <b>1994</b> , 33, 5636-40	3.2	611
10	NG-methyl-L-arginine functions as an alternate substrate and mechanism-based inhibitor of nitric oxide synthase. <i>Biochemistry</i> , <b>1993</b> , 32, 9677-85	3.2	178
9	Mechanistic probes of N-hydroxylation of L-arginine by the inducible nitric oxide synthase from murine macrophages. <i>Biochemistry</i> , <b>1992</b> , 31, 6822-8	3.2	88
8	Nitric oxide synthase is a cytochrome P-450 type hemoprotein. <i>Biochemistry</i> , <b>1992</b> , 31, 6627-31	3.2	609

7	Inactivation of macrophage nitric oxide synthase activity by NG-methyl-L-arginine. <i>Biochemical and Biophysical Research Communications</i> , <b>1991</b> , 177, 828-33	3.4	105
6	Nitric oxide: biosynthesis and biological significance. <i>Trends in Biochemical Sciences</i> , <b>1989</b> , 14, 488-92	10.3	318
5	Mammalian synthesis of nitrite, nitrate, nitric oxide, and N-nitrosating agents. <i>Chemical Research in Toxicology</i> , <b>1988</b> , 1, 249-57	4	213
4	Macrophage oxidation of L-arginine to nitrite and nitrate: nitric oxide is an intermediate. <i>Biochemistry</i> , <b>1988</b> , 27, 8706-11	3.2	1435
3	Carbon-13 nuclear magnetic resonance studies of creatine, creatinine and some of their analogs. <i>Magnetic Resonance in Chemistry</i> , <b>1980</b> , 13, 79-88		20
2	Ceragenins and antimicrobial peptides kill bacteria through distinct mechanisms		1
1	Nitric Oxide: Biological Targets1		