

Pierre Moenne-Loccoz

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136 papers	5,224 citations	43 h-index	65 g-index
146 ext. papers	5,650 ext. citations	8.9 avg, IF	5.27 L-index

#	Paper	IF	Citations
136	Nitric oxide in biological denitrification: Fe/Cu metalloenzyme and metal complex NO(x) redox chemistry. <i>Chemical Reviews</i> , 2002 , 102, 1201-34	68.1	394
135	O ₂ activation by non-heme diiron proteins: identification of a symmetric μ -1,2-peroxide in a mutant of ribonucleotide reductase. <i>Biochemistry</i> , 1998 , 37, 14659-63	3.2	162
134	The ferroxidase reaction of ferritin reveals a diferric μ -1,2 bridging peroxide intermediate in common with other O ₂ -activating non-heme diiron proteins. <i>Biochemistry</i> , 1999 , 38, 5290-5	3.2	142
133	Roles of the proximal heme thiolate ligand in cytochrome p450(cam). <i>Journal of the American Chemical Society</i> , 2001 , 123, 4877-85	16.4	119
132	Structural Characterization of the Catalytic High-Spin Heme of Nitric Oxide Reductase: A Resonance Raman Study <i>Journal of the American Chemical Society</i> , 1998 , 120, 5147-5152	16.4	106
131	Replacement of the proximal histidine iron ligand by a cysteine or tyrosine converts heme oxygenase to an oxidase. <i>Biochemistry</i> , 1999 , 38, 3733-43	3.2	98
130	Why copper is preferred over iron for oxygen activation and reduction in haem-copper oxidases. <i>Nature Chemistry</i> , 2017 , 9, 257-263	17.6	96
129	Heme oxygenase-1, intermediates in verdoheme formation and the requirement for reduction equivalents. <i>Journal of Biological Chemistry</i> , 1997 , 272, 6909-17	5.4	95
128	Spectroscopic characterization of heme iron-nitrosyl species and their role in NO reductase mechanisms in diiron proteins. <i>Natural Product Reports</i> , 2007 , 24, 610-20	15.1	94
127	Nitric Oxide Reductase from <i>Paracoccus denitrificans</i> Contains an Oxo-Bridged Heme/Non-Heme Diiron Center. <i>Journal of the American Chemical Society</i> , 2000 , 122, 9344-9345	16.4	89
126	Oxidation of heme to beta- and delta-biliverdin by <i>Pseudomonas aeruginosa</i> heme oxygenase as a consequence of an unusual seating of the heme. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14879-92	16.4	88
125	Transcription Factor NsrR from <i>Bacillus subtilis</i> Senses Nitric Oxide with a 4Fe-4S Cluster (I). <i>Biochemistry</i> , 2008 , 47, 13084-92	3.2	86
124	Secondary coordination sphere influence on the reactivity of nonheme iron(II) complexes: an experimental and DFT approach. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10590-3	16.4	85
123	Path of electron transfer in photosystem 1: direct evidence of forward electron transfer from A1 to Fe-Sx. <i>Biochemistry</i> , 1994 , 33, 10037-42	3.2	84
122	Superoxo, μ -peroxo, and μ -oxo complexes from heme/O ₂ and heme-Cu/O ₂ reactivity: copper ligand influences in cytochrome c oxidase models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 3623-8	11.5	81
121	Dioxygen reactivity of mononuclear heme and copper components yielding a high-spin heme-peroxo-cu complex. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6183-4	16.4	81
120	Disruption of an active site hydrogen bond converts human heme oxygenase-1 into a peroxidase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 10612-9	5.4	80

119	The active site of the thermophilic CYP119 from <i>Sulfolobus solfataricus</i> . <i>Journal of Biological Chemistry</i> , 2000 , 275, 14112-23	5.4	79
118	DevS, a heme-containing two-component oxygen sensor of <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2007 , 46, 4250-60	3.2	73
117	Heme/non-heme diiron(II) complexes and O ₂ , CO, and NO adducts as reduced and substrate-bound models for the active site of bacterial nitric oxide reductase. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3310-20	16.4	70
116	Rational reprogramming of the R2 subunit of <i>Escherichia coli</i> ribonucleotide reductase into a self-hydroxylating monooxygenase. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7017-30	16.4	70
115	Formation and Characterization of a High-Spin Heme-Copper Dioxygen (Peroxo) Complex. <i>Journal of the American Chemical Society</i> , 1999 , 121, 9885-9886	16.4	70
114	Insights into the nitric oxide reductase mechanism of flavodiiron proteins from a flavin-free enzyme. <i>Biochemistry</i> , 2010 , 49, 7040-9	3.2	65
113	A resonance Raman characterization of the primary electron acceptor in photosystem II. <i>Biochemistry</i> , 1989 , 28, 3641-3645	3.2	63
112	Direct Observation of Oxygen Rebound with an Iron-Hydroxide Complex. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13640-13643	16.4	62
111	Structural, NMR spectroscopic, and computational investigation of heme loading in the hemophore HasA from <i>Pseudomonas aeruginosa</i> . <i>Journal of the American Chemical Society</i> , 2010 , 132, 9857-72	16.4	58
110	Coupled oxidation vs heme oxygenation: insights from axial ligand mutants of mitochondrial cytochrome b5. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4103-10	16.4	56
109	Structural characterization of the hemophore HasA from <i>Pseudomonas aeruginosa</i> : NMR spectroscopy reveals protein-protein interactions between Holo-HasA and hemoglobin. <i>Biochemistry</i> , 2009 , 48, 96-109	3.2	55
108	Rational tuning of the thiolate donor in model complexes of superoxide reductase: direct evidence for a trans influence in Fe(III)-OOR complexes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14189-200	16.4	55
107	Replacement of the axial histidine ligand with imidazole in cytochrome c peroxidase. 2. Effects on heme coordination and function. <i>Biochemistry</i> , 2001 , 40, 1274-83	3.2	54
106	Phenol nitration induced by an {Fe(NO) ₂ }(10) dinitrosyl iron complex. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1184-7	16.4	53
105	The millisecond intermediate in the reaction of nitric oxide with oxymyoglobin is an iron(III)--nitrate complex, not a peroxynitrite. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7234-5	16.4	53
104	Endothelial nitric oxide synthase: modulations of the distal heme site produced by progressive N-terminal deletions. <i>Biochemistry</i> , 1997 , 36, 8530-8	3.2	52
103	Interaction of nitric oxide with human heme oxygenase-1. <i>Journal of Biological Chemistry</i> , 2003 , 278, 2341-7	5.4	52
102	Kinetic and spectroscopic studies of heme acquisition in the hemophore HasA from <i>Pseudomonas aeruginosa</i> . <i>Biochemistry</i> , 2010 , 49, 6646-54	3.2	51

101	Influence of the nitrogen donors on nonheme iron models of superoxide reductase: high-spin Fe(III)-OOR complexes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 157-67	16.4	47
100	Vibrational analysis of mononitrosyl complexes in hemerythrin and flavodiiron proteins: relevance to detoxifying NO reductase. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6878-84	16.4	46
99	Topaquinone-dependent amine oxidases: identification of reaction intermediates by Raman spectroscopy. <i>Biochemistry</i> , 1997 , 36, 11479-86	3.2	45
98	Fungal heme oxygenases: Functional expression and characterization of Hmx1 from <i>Saccharomyces cerevisiae</i> and CaHmx1 from <i>Candida albicans</i> . <i>Biochemistry</i> , 2006 , 45, 14772-80	3.2	44
97	Characterization of the topa quinone cofactor in amine oxidase from <i>Escherichia coli</i> by resonance Raman spectroscopy. <i>Biochemistry</i> , 1995 , 34, 7020-6	3.2	44
96	The production of nitrous oxide by the heme/nonheme diiron center of engineered myoglobins (Fe(B)Mbs) proceeds through a trans-iron-nitrosyl dimer. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2420-31	16.4	43
95	Carboxylate as the protonation site in (Peroxo)diiron(III) model complexes of soluble methane monooxygenase and related diiron proteins. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1273-5	16.4	43
94	Purification and characterization of the MQH2:NO oxidoreductase from the hyperthermophilic archaeon <i>Pyrobaculum aerophilum</i> . <i>Journal of Biological Chemistry</i> , 2003 , 278, 35861-8	5.4	43
93	Replacement of the distal glycine 139 transforms human heme oxygenase-1 into a peroxidase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 34501-7	5.4	43
92	Dioxygen reactivity of copper and heme-copper complexes possessing an imidazole-phenol cross-link. <i>Inorganic Chemistry</i> , 2005 , 44, 1238-47	5.1	42
91	A low-spin alkylperoxo-iron(III) complex with weak Fe-O and O-O bonds: implications for the mechanism of superoxide reductase. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14222-3	16.4	40
90	Synthesis and spectroscopy of micro-oxo (O(2-))-bridged heme/non-heme diiron complexes: models for the active site of nitric oxide reductase. <i>Inorganic Chemistry</i> , 2004 , 43, 651-62	5.1	40
89	Proximal ligand electron donation and reactivity of the cytochrome P450 ferric-peroxo anion. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6673-84	16.4	38
88	The hemophore HasA from <i>Yersinia pestis</i> (HasAyp) coordinates heme with a single residue, Tyr75, and with minimal conformational change. <i>Biochemistry</i> , 2013 , 52, 2705-7	3.2	37
87	Reactivity studies on Fe(III)-(O2(2-))-Cu(II) compounds: influence of the ligand architecture and copper ligand denticity. <i>Inorganic Chemistry</i> , 2007 , 46, 6382-94	5.1	37
86	Accessibility of the distal heme face, rather than Fe-His bond strength, determines the heme-nitrosyl coordination number of cytochromes cQevidence from spectroscopic studies. <i>Biochemistry</i> , 2005 , 44, 8664-72	3.2	36
85	Comparison of the UV Resonance Raman Spectra of Bacteria, Bacterial Cell Walls, and Ribosomes Excited in the Deep UV. <i>Applied Spectroscopy</i> , 1993 , 47, 38-43	3.1	36
84	Structure of the primary electron donor in photosystem I: a resonance Raman study. <i>Biochemistry</i> , 1990 , 29, 4740-6	3.2	36

83	Biochemical and structural characterization of <i>Pseudomonas aeruginosa</i> Bfd and FPR: ferredoxin NADP+ reductase and not ferredoxin is the redox partner of heme oxygenase under iron-starvation conditions. <i>Biochemistry</i> , 2007 , 46, 12198-211	3.2	35
82	Tridentate copper ligand influences on heme-peroxo-copper formation and properties: reduced, superoxo, and mu-peroxo iron/copper complexes. <i>Inorganic Chemistry</i> , 2005 , 44, 7014-29	5.1	35
81	A Six-Coordinate Peroxynitrite Low-Spin Iron(III) Porphyrinate Complex-The Product of the Reaction of Nitrogen Monoxide (INO) with a Ferric-Superoxide Species. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17421-17430	16.4	34
80	Light-induced NO production from a non-heme iron-nitrosyl dimer. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12524-7	16.4	34
79	Opposite movement of the external gate of a glutamate transporter homolog upon binding cotransported sodium compared with substrate. <i>Journal of Neuroscience</i> , 2011 , 31, 6255-62	6.6	34
78	Heme/Cu/O ₂ reactivity: change in Fe(III)-(O ₂ ²⁻)-Cull unit peroxo binding geometry effected by tridentate copper chelation. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12716-7	16.4	34
77	A Nonheme, High-Spin {FeNO} Complex that Spontaneously Generates NO. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10621-10624	16.4	33
76	Identification of the proximal ligand His-20 in heme oxygenase (Hmu O) from <i>Corynebacterium diphtheriae</i> . Oxidative cleavage of the heme macrocycle does not require the proximal histidine. <i>Journal of Biological Chemistry</i> , 2000 , 275, 11686-92	5.4	33
75	Ion-binding properties of a K ⁺ channel selectivity filter in different conformations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15096-100	11.5	32
74	Manganese and Cobalt in the Nonheme-Metal-Binding Site of a Biosynthetic Model of Heme-Copper Oxidase Superfamily Confer Oxidase Activity through Redox-Inactive Mechanism. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12209-12218	16.4	32
73	Nitric oxide-sensitive and -insensitive interaction of <i>Bacillus subtilis</i> NsrR with a ResDE-controlled promoter. <i>Molecular Microbiology</i> , 2010 , 78, 1280-93	4.1	32
72	Interdomain interactions within the two-component heme-based sensor DevS from <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2007 , 46, 9728-36	3.2	32
71	Site-directed mutation of the highly conserved region near the Q-loop of the cytochrome bd quinol oxidase from <i>Escherichia coli</i> specifically perturbs heme b595. <i>Biochemistry</i> , 2001 , 40, 8548-56	3.2	32
70	Photoaccumulation in photosystem I does produce a phylloquinone (A1.-) radical. <i>Biochemistry</i> , 1996 , 35, 6644-50	3.2	32
69	Tuning the Geometric and Electronic Structure of Synthetic High-Valent Heme Iron(IV)-Oxo Models in the Presence of a Lewis Acid and Various Axial Ligands. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5942-5960	16.4	31
68	Spectroscopic characterization of mononitrosyl complexes in heme--nonheme diiron centers within the myoglobin scaffold (Fe(B)Mbs): relevance to denitrifying NO reductase. <i>Biochemistry</i> , 2011 , 50, 5939-47	3.2	31
67	Characterization of NO adducts of the diiron center in protein R2 of <i>Escherichia coli</i> ribonucleotide reductase and site-directed variants; implications for the O ₂ activation mechanism. <i>Journal of Biological Inorganic Chemistry</i> , 2004 , 9, 818-27	3.7	31
66	Two CO molecules can bind concomitantly at the diiron site of NO reductase from <i>Bacillus azotoformans</i> . <i>Journal of the American Chemical Society</i> , 2004 , 126, 15332-3	16.4	31

65	Oxygen Activation by Axial Ligand Mutants of Mitochondrial Cytochrome b5: Oxidation of Heme to Verdoheme and Biliverdin. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7618-7619	16.4	31
64	Heme redox potentials hold the key to reactivity differences between nitric oxide reductase and heme-copper oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6195-6200	11.5	30
63	Accommodation of two diatomic molecules in cytochrome bo: insights into NO reductase activity in terminal oxidases. <i>Biochemistry</i> , 2009 , 48, 883-90	3.2	29
62	A distal tyrosine residue is required for ligand discrimination in DevS from Mycobacterium tuberculosis. <i>Biochemistry</i> , 2008 , 47, 12532-9	3.2	29
61	Fourier transform infrared characterization of a CuB-nitrosyl complex in cytochrome ba3 from Thermus thermophilus: relevance to NO reductase activity in heme-copper terminal oxidases. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14952-8	16.4	29
60	Arginine 177 is involved in Mn(II) binding by manganese peroxidase. <i>Biochemistry</i> , 1999 , 38, 11482-9	3.2	29
59	Activation of Dioxygen by a Mononuclear Nonheme Iron Complex: Sequential Peroxo, Oxo, and Hydroxo Intermediates. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17533-17547	16.4	28
58	Calculated and experimental spin state of seleno cytochrome P450. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7193-5	16.4	26
57	Heme-copper/dioxygen adduct formation relevant to cytochrome c oxidase: spectroscopic characterization of [(6L)FeIII-(O2(2-))-CuI]+. <i>Journal of Biological Inorganic Chemistry</i> , 2005 , 10, 63-77	3.7	25
56	Photoinitiated Reactivity of a Thiolate-Ligated, Spin-Crossover Nonheme {FeNO}(7) Complex with Dioxygen. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3107-17	16.4	24
55	Thioether-ligated iron(II) and iron(III)-hydroperoxo/alkylperoxo complexes with an H-bond donor in the second coordination sphere. <i>Dalton Transactions</i> , 2014 , 43, 7522-32	4.3	24
54	Biochemistry. Catalyzing NO to N2O in the nitrogen cycle. <i>Science</i> , 2010 , 330, 1632-3	33.3	23
53	Measurement of the heme affinity for yeast dap1p, and its importance in cellular function. <i>Biochemistry</i> , 2007 , 46, 14629-37	3.2	23
52	Further insights into the spectroscopic properties, electronic structure, and kinetics of formation of the heme-peroxo-copper complex [(F8TPP)FeIII-(O2(2-)-CuI(TMPA))]+. <i>Inorganic Chemistry</i> , 2007 , 46, 3889-902	5.1	23
51	Dioxygen and nitric oxide reactivity of a reduced heme/non-heme diiron(II) complex [(5L)FeII?FeII?Cl]+. Using a tethered tetraarylporphyrin for the development of an active site reactivity model for bacterial nitric oxide reductase. <i>Inorganica Chimica Acta</i> , 2000 , 297, 362-372	2.7	22
50	Replacing the axial ligand tyrosine 75 or its hydrogen bond partner histidine 83 minimally affects heme acquisition by the hemophore HasA from Pseudomonas aeruginosa. <i>Biochemistry</i> , 2014 , 53, 2112-25	3.2	21
49	Nitric oxide dioxygenation reaction in DevS and the initial response to nitric oxide in Mycobacterium tuberculosis. <i>Biochemistry</i> , 2011 , 50, 1023-8	3.2	21
48	Electrostatic environment of the tryptophylquinone cofactor in methylamine dehydrogenase: evidence from resonance Raman spectroscopy of model compounds. <i>Biochemistry</i> , 1996 , 35, 4713-20	3.2	21

47	A Nonheme Thiolate-Ligated Cobalt Superoxo Complex: Synthesis and Spectroscopic Characterization, Computational Studies, and Hydrogen Atom Abstraction Reactivity. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3641-3653	16.4	21
46	Formation of a bis(histidyl) heme iron complex in manganese peroxidase at high pH and restoration of the native enzyme structure by calcium. <i>Biochemistry</i> , 2000 , 39, 9994-10000	3.2	20
45	Versatile reactivity of a solvent-coordinated diiron(II) compound: synthesis and dioxygen reactivity of a mixed-valent Fe(II)Fe(III) species. <i>Inorganic Chemistry</i> , 2014 , 53, 167-81	5.1	18
44	Heme oxidation in a chimeric protein of the alpha-selective <i>Neisseriae meningitidis</i> heme oxygenase with the distal helix of the delta-selective <i>Pseudomonas aeruginosa</i> . <i>Biochemistry</i> , 2005 , 44, 13713-23	3.2	18
43	2-Chloro-1,4-dimethoxybenzene cation radical: formation and role in the lignin peroxidase oxidation of anisyl alcohol. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 360, 233-8	4.1	18
42	Modeling the syn disposition of nitrogen donors in non-heme diiron enzymes. Synthesis, characterization, and hydrogen peroxide reactivity of diiron(III) complexes with the syn N-donor ligand H2BPG2DEV. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14508-20	16.4	17
41	Biophysical and structural analysis of a novel heme B iron ligation in the flavocytochrome cellobiose dehydrogenase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 33224-31	5.4	16
40	Evidence for a methylammonium-binding site on methylamine dehydrogenase of <i>Thiobacillus versutus</i> . <i>Biochemistry</i> , 1995 , 34, 12926-31	3.2	16
39	Effect of Outer-Sphere Side Chain Substitutions on the Fate of the trans Iron-Nitrosyl Dimer in Heme/Nonheme Engineered Myoglobins (Fe(B)Mbs): Insights into the Mechanism of Denitrifying NO Reductases. <i>Biochemistry</i> , 2016 , 55, 2091-9	3.2	15
38	Ligand-induced allostery in the interaction of the heme binding protein with heme oxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3421-3426	11.5	14
37	Resonance Raman studies of the stoichiometric catalytic turnover of a substrate-stearoyl-acyl carrier protein delta(9) desaturase complex. <i>Biochemistry</i> , 2000 , 39, 10507-13	3.2	14
36	Nitric Oxide Reductase Activity in Heme-Nonheme Binuclear Engineered Myoglobins through a One-Electron Reduction Cycle. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17389-17393	16.4	13
35	Distal Hydrogen-bonding Interactions in Ligand Sensing and Signaling by <i>Mycobacterium tuberculosis</i> DosS. <i>Journal of Biological Chemistry</i> , 2016 , 291, 16100-11	5.4	12
34	Resonance Raman characterization of a high-spin six-coordinate iron(III) intermediate in metmyoglobin-azido complex formation trapped by microsecond freeze-hyperquenching (MHQ). <i>Journal of Raman Spectroscopy</i> , 2005 , 36, 359-362	2.3	12
33	Replacing Arginine 33 for Alanine in the Hemophore HasA from <i>Pseudomonas aeruginosa</i> Causes Closure of the H32 Loop in the Apo-Protein. <i>Biochemistry</i> , 2016 , 55, 2622-31	3.2	12
32	Is There a Proteic Substructure Common to all Photosynthetic Reaction Centers ? 1990 , 65-68		11
31	A Nonheme Sulfur-Ligated {FeNO} Complex and Comparison with Redox-Interconvertible {FeNO} and {FeNO} Analogues. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13465-13469	16.4	10
30	Calculated and Experimental Spin State of Seleno Cytochrome P450. <i>Angewandte Chemie</i> , 2009 , 121, 7329-7331	3.6	10

29	Direct Resonance Raman Characterization of a Peroxynitrito Copper Complex Generated from O and NO and Mechanistic Insights into Metal-Mediated Peroxynitrite Decomposition. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10936-10940	16.4	9
28	Fourier transform infrared characterization of the azido complex of methane monooxygenase hydroxylase from <i>Methylococcus capsulatus</i> (Bath). <i>Journal of the American Chemical Society</i> , 2005 , 127, 4148-9	16.4	9
27	Reduction of the ferrous alpha-verdoheme-cytochrome b5 complex. <i>Inorganic Chemistry</i> , 2004 , 43, 8470-81	8.1	8
26	Characterizing millisecond intermediates in hemoproteins using rapid-freeze-quench resonance Raman spectroscopy. <i>Methods in Molecular Biology</i> , 2014 , 1122, 107-23	1.4	7
25	Structure of the Primary Reactants in Photosystem II : Resonance Raman Studies of D1D2 Particles 1990 , 423-426		7
24	Distinguishing Nitro vs Nitrito Coordination in Cytochrome c Using Vibrational Spectroscopy and Density Functional Theory. <i>Inorganic Chemistry</i> , 2017 , 56, 13205-13213	5.1	6
23	Mononuclear, Nonheme, High-Spin {FeNO} Complexes Supported by a Sterically Encumbered NS-Thioether Ligand. <i>Inorganic Chemistry</i> , 2019 , 58, 9576-9580	5.1	6
22	Cloning and expression of a heme binding protein from the genome of <i>Saccharomyces cerevisiae</i> . <i>Protein Expression and Purification</i> , 2003 , 28, 340-9	2	6
21	Ultraviolet resonance Raman evidence for a change of hydrophobicity of the retinal pocket in the M state of bacteriorhodopsin. <i>Journal of the American Chemical Society</i> , 1992 , 114, 5893-5894	16.4	6
20	The Asp99-Arg188 salt bridge of the <i>Pseudomonas aeruginosa</i> HemO is critical in allowing conformational flexibility during catalysis. <i>Journal of Biological Inorganic Chemistry</i> , 2018 , 23, 1057-1070	3.7	5
19	A Nonheme Mononuclear {FeNO} Complex that Produces N O in the Absence of an Exogenous Reductant. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21558-21564	16.4	5
18	Structure and coordination of CuB in the <i>Acidianus ambivalens</i> aa3 quinol oxidase heme-copper center. <i>Journal of Biological Inorganic Chemistry</i> , 2005 , 10, 625-35	3.7	4
17	Stabilization of the Dinitrogen Analogue, Phosphorus Nitride. <i>ACS Central Science</i> , 2020 , 6, 1572-1577	16.8	4
16	Structural and Spectroscopic Characterization of a Product Schiff Base Intermediate in the Reaction of the Quinoprotein Glycine Oxidase, GoxA. <i>Biochemistry</i> , 2019 , 58, 706-713	3.2	4
15	A Nonheme Sulfur-Ligated {FeNO} ₆ Complex and Comparison with Redox-Interconvertible {FeNO} ₇ and {FeNO} ₈ Analogues. <i>Angewandte Chemie</i> , 2018 , 130, 13653-13657	3.6	3
14	Artificial Metalloproteins with Dinuclear Iron-Hydroxido Centers. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2384-2393	16.4	3
13	Structures of Gating Intermediates in a K channel. <i>Journal of Molecular Biology</i> , 2021 , 433, 167296	6.5	1
12	Structural Kinship of Photosynthetic Reaction Centers: Resonance Raman Studies of the Primary Electron Acceptors of Green and Purple Bacteria and of Photosystem II 1993 , 285-288		1

11	Sulfide Oxidation by 2,6-Bis[hydroxyl(methyl)amino]-4-morpholino-1,3,5-triazinatodioxomolybdenum(VI): Mechanistic Implications with DFT Calculations for a New Class of Molybdenum(VI) Complex. <i>Inorganic Chemistry</i> , 2021 , 60, 7762-7772	5.1	1
10	Axial Heme Coordination by the Tyr-His Motif in the Extracellular Hemophore HasA Is Critical for the Release of Heme to the HasR Receptor of. <i>Biochemistry</i> , 2021 , 60, 2549-2559	3.2	1
9	Stepwise nitrosylation of the nonheme iron site in an engineered azurin and a molecular basis for nitric oxide signaling mediated by nonheme iron proteins. <i>Chemical Science</i> , 2021 , 12, 6569-6579	9.4	1
8	Structure of the Primary Electron Donor in Photosystem I: Difference Resonance Raman Spectroscopy of CP1 Particles 1989 , 263-266		1
7	Mechanism of substrate inhibition in cytochrome-c dependent NO reductases from denitrifying bacteria (cNORs).. <i>Journal of Inorganic Biochemistry</i> , 2022 , 231, 111781	4.2	1
6	Direct Resonance Raman Characterization of a Peroxynitrito Copper Complex Generated from O ₂ and NO and Mechanistic Insights into Metal-Mediated Peroxynitrite Decomposition. <i>Angewandte Chemie</i> , 2019 , 131, 11052-11056	3.6	0
5	An Iron(III) Superoxide Corrole from Iron(II) and Dioxygen. <i>Angewandte Chemie - International Edition</i> , 2021 , 61, e202111492	16.4	0
4	A Reactive, Photogenerated High-Spin (= 2) Fe(O) Complex via O Activation.. <i>Journal of the American Chemical Society</i> , 2021 , 143, 21637-21647	16.4	0
3	CHAPTER 16:Mechanisms of Nitric Oxide Sensing and Detoxification by Bacterial Hemoproteins. <i>2-Oxoglutarate-Dependent Oxygenases</i> , 2018 , 351-369	1.8	
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