

Patrick J Farmer

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92
papers

3,837
citations

35
h-index

60
g-index

105
ext. papers

4,110
ext. citations

6.6
avg, IF

4.94
L-index

#	Paper	IF	Citations
92	The reduction potential of nitric oxide (NO) and its importance to NO biochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 10958-63	11.5	287
91	Disulfiram facilitates intracellular Cu uptake and induces apoptosis in human melanoma cells. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 6914-20	8.3	201
90	Redox regulation in human melanocytes and melanoma. <i>Pigment Cell & Melanoma Research</i> , 2001 , 14, 148-54		158
89	Coordination chemistry of the HNO ligand with hemes and synthetic coordination complexes. <i>Journal of Inorganic Biochemistry</i> , 2005 , 99, 166-84	4.2	132
88	Electrochemical Reduction of NO by Myoglobin in Surfactant Film: Characterization and Reactivity of the Nitroxyl (NO-) Adduct. <i>Journal of the American Chemical Society</i> , 1998 , 120, 9888-9893	16.4	115
87	Metal binding by melanins: studies of colloidal dihydroxyindole-melanin, and its complexation by Cu(II) and Zn(II) ions. <i>Journal of Inorganic Biochemistry</i> , 2002 , 89, 45-53	4.2	114
86	Genome-wide siRNA-based functional genomics of pigmentation identifies novel genes and pathways that impact melanogenesis in human cells. <i>PLoS Genetics</i> , 2008 , 4, e1000298	6	110
85	Isotopic labeling investigation of the oxygenation of nickel-bound thiolates by molecular oxygen. <i>Journal of the American Chemical Society</i> , 1992 , 114, 4601-4605	16.4	110
84	Pattern of expression and substrate specificity of chloroplast ferredoxins from <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2009 , 284, 25867-78	5.4	108
83	The HNO Adduct of Myoglobin: Synthesis and Characterization. <i>Journal of the American Chemical Society</i> , 2000 , 122, 2393-2394	16.4	103
82	Electrocatalytic reductions of nitrite, nitric oxide, and nitrous oxide by thermophilic cytochrome P450 CYP119 in film-modified electrodes and an analytical comparison of its catalytic activities with myoglobin. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4934-42	16.4	99
81	Efficient trapping of HNO by deoxymyoglobin. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10961-10964	16.4	96
80	Effects of sulfur site modification on the redox potentials of derivatives of [N,N'Fbis(2-mercaptoethyl)-1,5-diazacyclooctanato]nickel(II). <i>Journal of the American Chemical Society</i> , 1993 , 115, 4665-4674	16.4	93
79	Enhanced electron transfer and lauric acid hydroxylation by site-directed mutagenesis of CYP119. <i>Journal of the American Chemical Society</i> , 2002 , 124, 5684-91	16.4	91
78	Nitrite Reduction by Myoglobin in Surfactant Films. <i>Journal of the American Chemical Society</i> , 1997 , 119, 12689-12690	16.4	89
77	Effect of stacking and redox state on optical absorption spectra of melanins -- comparison of theoretical and experimental results. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1970-7	3.4	85
76	The effects of nitroxyl (HNO) on soluble guanylate cyclase activity: interactions at ferrous heme and cysteine thiols. <i>Journal of Biological Chemistry</i> , 2009 , 284, 21788-21796	5.4	84

75	Bonding in HNO-myoglobin as characterized by X-ray absorption and resonance raman spectroscopies. <i>Journal of the American Chemical Society</i> , 2005 , 127, 814-5	16.4	78
74	Etiologic pathogenesis of melanoma: a unifying hypothesis for the missing attributable risk. <i>Clinical Cancer Research</i> , 2004 , 10, 2581-3	12.9	75
73	Influence of Sulfur Metalation on the Accessibility of the Ni(II/I) Couple in [N,NTFBis(2-mercaptoethyl)-1,5-diazacyclooctanato]nickel(II): Insight into the Redox Properties of [NiFe]-Hydrogenase. <i>Inorganic Chemistry</i> , 1996 , 35, 2176-2183	5.1	73
72	Redox behavior of melanins: direct electrochemistry of dihydroxyindole-melanin and its Cu and Zn adducts. <i>Journal of Inorganic Biochemistry</i> , 2002 , 89, 54-60	4.2	67
71	AM1-SM2 Calculations Model the Redox Potential of Nitroxyl Radicals Such as TEMPO. <i>Journal of Organic Chemistry</i> , 1999 , 64, 6745-6749	4.2	65
70	Applications of the N ₂ S ₂ ligand, N,NTFBis(mercaptoethyl)-1,5-diazacyclooctane (BME-DACO), toward the formation of bi- and heterometallics: [(BME-DACO)Fe] ₂ and [(BME-DACO)NiFeCl ₂] ₂ . <i>Journal of the American Chemical Society</i> , 1991 , 113, 1421-1423	16.4	64
69	TMAO promotes fibrillization and microtubule assembly activity in the C-terminal repeat region of tau. <i>Biochemistry</i> , 2006 , 45, 3684-91	3.2	59
68	Melanin as a target for melanoma chemotherapy: pro-oxidant effect of oxygen and metals on melanoma viability. <i>Pigment Cell & Melanoma Research</i> , 2003 , 16, 273-9		58
67	Reactions of HNO with heme proteins: new routes to HNO-heme complexes and insight into physiological effects. <i>Inorganic Chemistry</i> , 2010 , 49, 6283-92	5.1	56
66	Direct assessment of the reduction potential of the [4Fe-4S](1+/0) couple of the Fe protein from <i>Azotobacter vinelandii</i> . <i>Journal of the American Chemical Society</i> , 2002 , 124, 12100-1	16.4	55
65	High-temperature electrocatalysis using thermophilic P450 CYP119: dehalogenation of CCl ₄ to CH ₄ . <i>Journal of the American Chemical Society</i> , 2004 , 126, 8632-3	16.4	53
64	Nitrosyl hydride (HNO) as an O ₂ analogue: long-lived HNO adducts of ferrous globins. <i>Biochemistry</i> , 2009 , 48, 5018-25	3.2	52
63	¹ H NMR structure of the heme pocket of HNO-myoglobin. <i>Journal of Biological Inorganic Chemistry</i> , 2003 , 8, 348-52	3.7	48
62	Reduction-Promoted Sulfur-Oxygen Bond Cleavage in a Nickel Sulfenate as a Model for the Activation of [NiFe] Hydrogenase. <i>Journal of the American Chemical Society</i> , 1994 , 116, 9355-9356	16.4	47
61	Preparations and structures of a zinc(II) dimer and zinc(II)/nickel(II) pentanuclear derivatives of N,NTFBis(mercaptoethyl)-1,5-diazacyclooctane: [(BME-DACO)Zn] ₂ and {[BME-DACO)Ni] ₃ [ZnCl] ₂ } ₂ {BF ₄] ₂ . <i>Inorganic Chemistry</i> , 1992 , 31, 3497-3499	5.1	44
60	Melanosomal damage in normal human melanocytes induced by UVB and metal uptake—a basis for the pro-oxidant state of melanoma. <i>Photochemistry and Photobiology</i> , 2008 , 84, 556-64	3.6	43
59	O atom transfer from nitric oxide catalyzed by Fe(TPP). <i>Journal of the American Chemical Society</i> , 2001 , 123, 1143-50	16.4	42
58	The putidaredoxin reductase-putidaredoxin electron transfer complex: theoretical and experimental studies. <i>Journal of Biological Chemistry</i> , 2005 , 280, 16135-42	5.4	37

57	A novel heme and peroxide-dependent tryptophan-tyrosine cross-link in a mutant of cytochrome c peroxidase. <i>Journal of Molecular Biology</i> , 2003 , 328, 157-66	6.5	34
56	Divergent pathways for the addition of dioxygen to sulfur in nickel cis-dithiolates: an isotopomeric analysis. <i>Inorganic Chemistry</i> , 1993 , 32, 4171-4172	5.1	34
55	Electron-transfer chemistry of Ru-linker-(heme)-modified myoglobin: rapid intraprotein reduction of a photogenerated porphyrin cation radical. <i>Inorganic Chemistry</i> , 2004 , 43, 3593-6	5.1	33
54	C ₂ -Symmetric nitroxides and their potential as enantioselective oxidants. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 3584-3598		32
53	Studies on Synthetic and Natural Melanin and Its Affinity for Fe(III) Ion. <i>Bioinorganic Chemistry and Applications</i> , 2012 , 2012, 712840	4.2	31
52	Axial Ligation of Diazacyclooctanenickel and -Zinc Complexes. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 116-119		29
51	New perspectives on melanoma pathogenesis and chemoprevention. <i>Recent Results in Cancer Research</i> , 2007 , 174, 191-5	1.5	29
50	Oxidative Stress and Arterial Dysfunction in Peripheral Artery Disease. <i>Antioxidants</i> , 2018 , 7,	7.1	29
49	Catalytic two-electron reductions of N ₂ O and N ₃ ⁻ by myoglobin in surfactant films. <i>Inorganic Chemistry</i> , 2000 , 39, 289-93	5.1	28
48	Polydentate N(2)S(2)O and N(2)S(2)O(2) Ligands as Alcoholic Derivatives of (N,N)TBis(2-mercaptoethyl)-1,5-diazacyclooctane)nickel(II) and (N,N)TBis(2-mercapto-2-methylpropane)-1,5-diazacyclooctane)nickel(II). <i>Inorganic Chemistry</i> , 1996 , 35, 4029-4037	5.1	27
47	Oxidative stress and antioxidant treatment in patients with peripheral artery disease. <i>Physiological Reports</i> , 2018 , 6, e13650	2.6	26
46	Nitrosyl hydride (HNO) replaces dioxygen in nitroxygenase activity of manganese quercetin dioxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18926-31	11.5	23
45	A novel heterocyclic atom exchange reaction with Lawesson's reagent: a one-pot synthesis of dithiomaltol. <i>Chemical Communications</i> , 2006 , 206-8	5.8	23
44	Probing the motional behavior of eumelanin and pheomelanin with solid-state NMR spectroscopy: new insights into the pigment properties. <i>Chemistry - A European Journal</i> , 2012 , 18, 10689-700	4.8	22
43	A Coordination Polymer of Nickel(II) Based on a Pentadentate N, S, and O Donor Ligand. <i>Inorganic Chemistry</i> , 1996 , 35, 4989-4994	5.1	22
42	The Influence of β and γ Cyclodextrin Cavity Size on the Association Constant with Decanoate and Octanoate Anions. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2001 , 40, 291-295		20
41	The interaction of nitric oxide with distinct hemoglobins differentially amplifies endothelial heme uptake and heme oxygenase-1 expression. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006 , 317, 1125-33	4.7	19
40	Electrochemistry and Catalysis by Myoglobin in Surfactant Films. <i>Comments on Inorganic Chemistry</i> , 1998 , 20, 101-120	3.9	18

39	Amyloids, melanins and oxidative stress in melanomagenesis. <i>Experimental Dermatology</i> , 2015 , 24, 171-4		15
38	Photolysis of the HNO adduct of myoglobin: transient generation of the aminoxyl radical. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9590-1	16.4	14
37	Large scale synthesis of V-shaped rutile twinned nanorods. <i>CrystEngComm</i> , 2012 , 14, 3120	3.3	13
36	Kinetic characterization of a slow-binding inhibitor of Bla2: thiomaltol. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 137-42	5.6	13
35	A singular value decomposition approach for kinetic analysis of reactions of HNO with myoglobin. <i>Journal of Inorganic Biochemistry</i> , 2013 , 118, 171-8	4.2	13
34	Intramolecular electron transfer in cyanide-bridged ruthenium dimers. <i>Inorganica Chimica Acta</i> , 1996 , 243, 135-140	2.7	13
33	Characterization of the Initial Intermediate Formed during Photoinduced Oxygenation of the Ruthenium(II) Bis(bipyridyl)flavonolate Complex. <i>Inorganic Chemistry</i> , 2016 , 55, 7320-2	5.1	12
32	Multiple pathways for the oxygenation of a ruthenium(II) dithiocarbamate complex: S-oxygenation and S-extrusion. <i>Inorganic Chemistry</i> , 2004 , 43, 8301-9	5.1	12
31	Oxygenation of zinc dialkyldithiocarbamate complexes: isolation, characterization, and reactivity of the stoichiometric oxygenates. <i>Inorganic Chemistry</i> , 2006 , 45, 6064-72	5.1	11
30	Chemical trapping and characterization of small oxoacids of sulfur (SOS) generated in aqueous oxidations of HS. <i>Redox Biology</i> , 2018 , 14, 485-491	11.3	11
29	Trapping Reactions of the Sulfenyl and Sulfinyl Tautomers of Sulfenic Acids. <i>ACS Chemical Biology</i> , 2017 , 12, 474-478	4.9	10
28	Synthesis and characterization of lithium oxonitrate (LiNO). <i>Journal of Inorganic Biochemistry</i> , 2013 , 118, 128-33	4.2	10
27	Unusual voltammetry of manganese-substituted myoglobin in surfactant film: evidence for two redox pathways. <i>Journal of Biological Inorganic Chemistry</i> , 2000 , 5, 738-47	3.7	10
26	Hydrogen bonding between guanosine 5' monophosphate and coordinatively saturated cobalt(III) and platinum(II) ammine and ethylenediamine complex cations. <i>Inorganic Chemistry</i> , 1991 , 30, 3414-3420	5.1	10
25	Mechanistic Investigations of Photoinduced Oxygenation of Ru(II) Bis-bipyridyl Flavonolate Complexes. <i>Inorganic Chemistry</i> , 2018 , 57, 2416-2424	5.1	9
24	Cation-dependence of the self-association behavior of guanylyl-(3'5'-guanosine. <i>Journal of Biomolecular Structure and Dynamics</i> , 1992 , 10, 619-38	3.6	9
23	Preface: the intricate puzzle of HNO chemistry. <i>Journal of Inorganic Biochemistry</i> , 2013 , 118, 107	4.2	8
22	The reaction between GSNO and HS: On the generation of NO, HNO and NO. <i>Nitric Oxide - Biology and Chemistry</i> , 2018 , 77, 96-105	5	6

21	Nitroxigenation of quercetin by HNO. <i>Tetrahedron Letters</i> , 2016 , 57, 399-402	2	6
20	Ligand-based photooxidations of dithiomaltolato complexes of Ru(II) and Zn(II): photolytic CH activation and evidence of singlet oxygen generation and quenching. <i>Dalton Transactions</i> , 2014 , 43, 11548-11556	4.3	6
19	THE COORDINATION CHEMISTRY OF HNO: FROM WARREN ROPER TO HEMOGLOBIN. <i>Comments on Inorganic Chemistry</i> , 2010 , 31, 130-143	3.9	6
18	Unexpected C-H activation of Ru(II)-dithiomaltol complexes upon oxidation. <i>Inorganic Chemistry</i> , 2008 , 47, 2864-70	5.1	6
17	Characterization of Polysulfides, Polysulfanes, and Other Unique Species in the Reaction between GSNO and HS. <i>Molecules</i> , 2019 , 24,	4.8	5
16	Direct oxygen imaging in titania nanocrystals. <i>Nanotechnology</i> , 2012 , 23, 335706	3.4	5
15	1,5-Diazacyclooctane, Pendant Arm Thiolato Derivatives and [N,N? -Bis(2-Mercaptoethyl)-1,5-Diazacyclooctanato]Nickel(II). <i>Inorganic Syntheses</i> , 2007 , 89-98		4
14	Mesopone cytochrome c peroxidase: functional model of heme oxygenated oxidases. <i>Journal of Inorganic Biochemistry</i> , 2002 , 91, 635-43	4.2	4
13	Synthesis of first row transition metal selenomaltol complexes. <i>Dalton Transactions</i> , 2018 , 47, 9030-9037	4.3	3
12	Photo- and thermal-induced linkage isomerizations in a peroxydithiocarbamateRu complex. <i>Inorganica Chimica Acta</i> , 2009 , 362, 4013-4016	2.7	3
11	Das Einführen axialer Liganden in Diazacyclooctannickel- und -zinkkomplexe. <i>Angewandte Chemie</i> , 1993 , 105, 72-74	3.6	3
10	Biomimetic NOx Reductions by Heme Models and Proteins 2006 , 149-190		3
9	First row metal complexes of the hindered tridentate ligand 2,6-bis-(3?,5?-diphenylpyrazolyl)pyridine. <i>Inorganica Chimica Acta</i> , 2018 , 473, 180-185	2.7	2
8	Targeting Melanoma via Metal-Based Stress. <i>ACS Symposium Series</i> , 2005 , 400-413	0.4	2
7	Bioinorganic Chemistry of the HNO Ligand 2008 , 429-462		2
6	Mechanism of Dioxygen Addition to Nickel-Bound Thiolates 1993 , 209-223		2
5	Characterization of Endogenous and Extruded HS and Small Oxoacids of Sulfur (SOS) in Cell Cultures. <i>ACS Chemical Biology</i> , 2021 , 16, 1413-1424	4.9	2
4	Disulfiram, Metals, and Melanoma. <i>Journal of Chemical Education</i> , 2009 , 86, 1224	2.4	1

3	Expanding the Reactive Sulfur Metabolome: Intracellular and Efflux Measurements of Small Oxoacids of Sulfur (SOS) and HS in Human Primary Vascular Cell Culture. <i>Molecules</i> , 2021 , 26,	4.8	1
2	Synthesis, crystal structures, and characterization of the complexes of the bulky ligand 2,6-bis-(3,5-diphenylpyrazolyl)pyridine with ruthenium, rhodium, and palladium. <i>Polyhedron</i> , 2018 , 139, 308-312	2.7	1
1	Reactivities of Aromatic Protons in Crude Oil Fractions toward Br ₂ Tagging for Structural Characterization by Nuclear Magnetic Resonance and Electron Paramagnetic Resonance Spectroscopy and Mass Spectrometry. <i>Energy & Fuels</i> , 2018 , 32, 10549-10555	4.1	0