

Brian M Hoffman

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.

248 papers	14,415 citations	66 h-index	109 g-index
261 ext. papers	16,429 ext. citations	11.3 avg, IF	6.48 L-index

#	Paper	IF	Citations
248	Small-Molecule Mn Antioxidants in <i>Caenorhabditis elegans</i> and <i>Deinococcus radiodurans</i> Supplant MnSOD Enzymes during Aging and Irradiation.. <i>MBio</i> , 2022 , e0339421	7.8	2
247	End-On Copper(I) Superoxo and Cu(II) Peroxo and Hydroperoxo Complexes Generated by Cryoreduction/Annealing and Characterized by EPR/ENDOR Spectroscopy.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	4
246	A mixed-valent Fe(II)Fe(III) species converts cysteine to an oxazolone/thioamide pair in methanobactin biosynthesis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2123566119	11.5	1
245	Active-Site Controlled, Jahn-Teller Enabled Regioselectivity in Reductive S-C Bond Cleavage of -Adenosylmethionine in Radical SAM Enzymes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 335-348	16.4	7
244	Interplays of electron and nuclear motions along CO dissociation trajectory in myoglobin revealed by ultrafast X-rays and quantum dynamics calculations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
243	Exploring the Role of the Central Carbide of the Nitrogenase Active-Site FeMo-cofactor through Targeted C Labeling and ENDOR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9183-9190	16.4	1
242	An ecophysiological explanation for manganese enrichment in rock varnish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5
241	Metal ion fluxes controlling amphibian fertilization. <i>Nature Chemistry</i> , 2021 , 13, 683-691	17.6	4
240	-Adenosyl-l-ethionine is a Catalytically Competent Analog of -Adenosyl-l-methionine (SAM) in the Radical SAM Enzyme HydG. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4666-4672	16.4	9
239	S-Adenosyl-l-ethionine is a Catalytically Competent Analog of S-Adenosyl-l-methionine (SAM) in the Radical SAM Enzyme HydG. <i>Angewandte Chemie</i> , 2021 , 133, 4716-4722	3.6	2
238	An Engineered Glutamate in Biosynthetic Models of Heme-Copper Oxidases Drives Complete Product Selectivity by Tuning the Hydrogen-Bonding Network. <i>Biochemistry</i> , 2021 , 60, 346-355	3.2	3
237	The electronic structure of FeV-cofactor in vanadium-dependent nitrogenase. <i>Chemical Science</i> , 2021 , 12, 6913-6922	9.4	6
236	Comment on "Structural evidence for a dynamic metallocofactor during N reduction by Mo-nitrogenase". <i>Science</i> , 2021 , 371,	33.3	10
235	Hydrocarbon Oxidation by an Exposed, Multiply Bonded Iron(III) Oxo Complex. <i>ACS Central Science</i> , 2021 , 7, 1751-1755	16.8	1
234	Coordination of the Copper Centers in Particulate Methane Monooxygenase: Comparison between Methanotrophs and Characterization of the Cu Site by EPR and ENDOR Spectroscopies. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15358-15368	16.4	6
233	Electron Redistribution within the Nitrogenase Active Site FeMo-Cofactor During Reductive Elimination of H to Achieve N ₂ Triple-Bond Activation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21679-21690	16.4	11
232	Reduction of Substrates by Nitrogenases. <i>Chemical Reviews</i> , 2020 , 120, 5082-5106	68.1	90

231	The Soybean Lipoxygenase-Substrate Complex: Correlation between the Properties of Tunneling-Ready States and ENDOR-Detected Structures of Ground States. <i>Biochemistry</i> , 2020 , 59, 901-910	3.2	8
230	CO as a substrate and inhibitor of H reduction for the Mo-, V-, and Fe-nitrogenase isozymes. <i>Journal of Inorganic Biochemistry</i> , 2020 , 213, 111278	4.2	8
229	Structural and spectroscopic characterization of an Fe(VI) bis(imido) complex. <i>Science</i> , 2020 , 370, 356-359	3.3	20
228	The Role of Co-ZSM-5 Catalysts in Aerobic Oxidation of Ethylbenzene. <i>Topics in Catalysis</i> , 2020 , 63, 1708-1716	3.16	1
227	Radical SAM Enzyme Spore Photoproduct Lyase: Properties of the [Organometallic Intermediate and Identification of Stable Protein Radicals Formed during Substrate-Free Turnover. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18652-18660	16.4	5
226	C Electron Nuclear Double Resonance Spectroscopy Shows Acetyl-CoA Synthase Binds Two Substrate CO in Multiple Binding Modes and Reveals the Importance of a CO-Binding "Alcove". <i>Journal of the American Chemical Society</i> , 2020 , 142, 15362-15370	16.4	5
225	Spectroscopic Description of the E State of Mo Nitrogenase Based on Mo and Fe X-ray Absorption and Mössbauer Studies. <i>Inorganic Chemistry</i> , 2019 , 58, 12365-12376	5.1	23
224	Photoinduced Electron Transfer in a Radical SAM Enzyme Generates an γ -Adenosylmethionine Derived Methyl Radical. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16117-16124	16.4	17
223	MbnH is a diheme MauG-like protein associated with microbial copper homeostasis. <i>Journal of Biological Chemistry</i> , 2019 , 294, 16141-16151	5.4	2
222	Time-Resolved EPR Study of H Reductive Elimination from the Photoexcited Nitrogenase Janus E(4H) Intermediate. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 8823-8828	3.4	7
221	Short-lived neutral FMN and FAD semiquinones are transient intermediates in cryo-reduced yeast NADPH-cytochrome P450 reductase. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 673, 108080	4.1	
220	High-Resolution ENDOR Spectroscopy Combined with Quantum Chemical Calculations Reveals the Structure of Nitrogenase Janus Intermediate E(4H). <i>Journal of the American Chemical Society</i> , 2019 , 141, 11984-11996	16.4	33
219	Particulate methane monooxygenase contains only mononuclear copper centers. <i>Science</i> , 2019 , 364, 566-570	33.3	136
218	Formation and Electronic Structure of an Atypical Cu Site. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4678-4686	16.4	12
217	Mo-, V-, and Fe-Nitrogenases Use a Universal Eight-Electron Reductive-Elimination Mechanism To Achieve N Reduction. <i>Biochemistry</i> , 2019 , 58, 3293-3301	3.2	59
216	The Elusive 5'-Deoxyadenosyl Radical: Captured and Characterized by Electron Paramagnetic Resonance and Electron Nuclear Double Resonance Spectroscopies. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12139-12146	16.4	42
215	Manganese co-localizes with calcium and phosphorus in acidocalcisomes and is mobilized in manganese-deficient conditions. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17626-17641	5.4	32
214	PCuC domains from methane-oxidizing bacteria use a histidine brace to bind copper. <i>Journal of Biological Chemistry</i> , 2019 , 294, 16351-16363	5.4	2

213	Cu-specific CopB transporter: Revising P-type ATPase classification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2108-2113	11.5	22
212	Mechanism of N Reduction Catalyzed by Fe-Nitrogenase Involves Reductive Elimination of H. <i>Biochemistry</i> , 2018 , 57, 701-710	3.2	47
211	Organometallic and radical intermediates reveal mechanism of diphthamide biosynthesis. <i>Science</i> , 2018 , 359, 1247-1250	33.3	32
210	Hydride Conformers of the Nitrogenase FeMo-cofactor Two-Electron Reduced State E(2H), Assigned Using Cryogenic Intra Electron Paramagnetic Resonance Cavity Photolysis. <i>Inorganic Chemistry</i> , 2018 , 57, 6847-6852	5.1	17
209	Paradigm Shift for Radical S-Adenosyl-L-methionine Reactions: The Organometallic Intermediate \square Is Central to Catalysis. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8634-8638	16.4	55
208	From micelles to bicelles: Effect of the membrane on particulate methane monooxygenase activity. <i>Journal of Biological Chemistry</i> , 2018 , 293, 10457-10465	5.4	32
207	Energy Transduction in Nitrogenase. <i>Accounts of Chemical Research</i> , 2018 , 51, 2179-2186	24.3	62
206	A structurally-characterized peroxomanganese(iv) porphyrin from reversible O binding within a metal-organic framework. <i>Chemical Science</i> , 2018 , 9, 1596-1603	9.4	25
205	Isolation and characterization of a high-spin mixed-valent iron dinitrogen complex. <i>Chemical Communications</i> , 2018 , 54, 13339-13342	5.8	9
204	Critical computational analysis illuminates the reductive-elimination mechanism that activates nitrogenase for N reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E10521-E10530	11.5	69
203	Mechanism of Radical Initiation in the Radical S-Adenosyl-L-methionine Superfamily. <i>Accounts of Chemical Research</i> , 2018 , 51, 2611-2619	24.3	52
202	Characterization of a long overlooked copper protein from methane- and ammonia-oxidizing bacteria. <i>Nature Communications</i> , 2018 , 9, 4276	17.4	30
201	Kinetic Understanding of N Reduction versus H Evolution at the E(4H) Janus State in the Three Nitrogenases. <i>Biochemistry</i> , 2018 , 57, 5706-5714	3.2	25
200	ENDOR Characterization of (N)Fe(EH)Fe(N): A Spectroscopic Model for N Binding by the Di-Ehydrido Nitrogenase Janus Intermediate. <i>Inorganic Chemistry</i> , 2018 , 57, 12323-12330	5.1	8
199	Control of electron transfer in nitrogenase. <i>Current Opinion in Chemical Biology</i> , 2018 , 47, 54-59	9.7	26
198	Beyond fossil fuel-driven nitrogen transformations. <i>Science</i> , 2018 , 360,	33.3	772
197	C ENDOR Spectroscopy of Lipxygenase-Substrate Complexes Reveals the Structural Basis for C-H Activation by Tunneling. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1984-1997	16.4	32
196	Photoinduced Reductive Elimination of H from the Nitrogenase Dihydride (Janus) State Involves a FeMo-cofactor-H Intermediate. <i>Inorganic Chemistry</i> , 2017 , 56, 2233-2240	5.1	33

195	EPR/ENDOR and Theoretical Study of the Jahn-Teller-Active [HIPTNN]MoL Complexes (L = N, NH). <i>Inorganic Chemistry</i> , 2017 , 56, 6906-6919	5.1	11
194	Substrate-Dependent Cleavage Site Selection by Unconventional Radical S-Adenosylmethionine Enzymes in Diphthamide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5680-5683	16.4	17
193	Metal Selectivity of a Cd-, Co-, and Zn-Transporting P-type ATPase. <i>Biochemistry</i> , 2017 , 56, 85-95	3.2	13
192	Across the tree of life, radiation resistance is governed by antioxidant Mn, gauged by paramagnetic resonance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9253-E9260	11.5	58
191	Mechanism of Nitrogenase H Formation by Metal-Hydride Protonation Probed by Mediated Electrocatalysis and H/D Isotope Effects. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13518-13524	16.4	38
190	Nitrogen Fixation 2017 , 1-21		12
189	Monovalent Cation Activation of the Radical SAM Enzyme Pyruvate Formate-Lyase Activating Enzyme. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11803-11813	16.4	18
188	ENDOR characterization of an iron-alkene complex provides insight into a corresponding organometallic intermediate of nitrogenase. <i>Chemical Science</i> , 2017 , 8, 5941-5948	9.4	6
187	Discovery of the Antitumor Effects of a Porphyrazine Diol (Pz 285) in MDA-MB-231 Breast Tumor Xenograft Models in Mice. <i>ACS Medicinal Chemistry Letters</i> , 2017 , 8, 705-709	4.3	
186	Reductive Elimination of H ₂ Activates Nitrogenase to Reduce the N≡N Triple Bond: Characterization of the E ₄ (4H) Janus Intermediate in Wild-Type Enzyme. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10674-83	16.4	100
185	Characterization of Methanobactin from Methylosinus sp. LW4. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11124-7	16.4	27
184	Charge-Disproportionation Symmetry Breaking Creates a Heterodimeric Myoglobin Complex with Enhanced Affinity and Rapid Intracomplex Electron Transfer. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12615-28	16.4	5
183	Ultrafast Excited State Relaxation of a Metalloporphyrin Revealed by Femtosecond X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8752-64	16.4	67
182	Reversible Photoinduced Reductive Elimination of H ₂ from the Nitrogenase Dihydride State, the E ₄ (4H) Janus Intermediate. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1320-7	16.4	48
181	Role of the Proximal Cysteine Hydrogen Bonding Interaction in Cytochrome P450 2B4 Studied by Cryoreduction, Electron Paramagnetic Resonance, and Electron-Nuclear Double Resonance Spectroscopy. <i>Biochemistry</i> , 2016 , 55, 869-83	3.2	19
180	Comparison of the Mechanisms of Heme Hydroxylation by Heme Oxygenases-1 and -2: Kinetic and Cryoreduction Studies. <i>Biochemistry</i> , 2016 , 55, 62-8	3.2	7
179	Spectroscopic and Crystallographic Evidence for the Role of a Water-Containing H-Bond Network in Oxidase Activity of an Engineered Myoglobin. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1134-7	16.4	23
178	Radical SAM catalysis via an organometallic intermediate with an Fe-[5'-C]-deoxyadenosyl bond. <i>Science</i> , 2016 , 352, 822-5	33.3	86

177	Negative cooperativity in the nitrogenase Fe protein electron delivery cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5783-E5791	11.5	25
176	Imaging ultrafast excited state pathways in transition metal complexes by X-ray transient absorption and scattering using X-ray free electron laser source. <i>Faraday Discussions</i> , 2016 , 194, 639-658 ^{3,6}	3.6	10
175	Exploring Electron/Proton Transfer and Conformational Changes in the Nitrogenase MoFe Protein and FeMo-cofactor Through Cryoreduction/EPR Measurements. <i>Israel Journal of Chemistry</i> , 2016 , 56, 841-851	3.4	10
174	CO ₂ Reduction Catalyzed by Nitrogenase: Pathways to Formate, Carbon Monoxide, and Methane. <i>Inorganic Chemistry</i> , 2016 , 55, 8321-30	5.1	34
173	Organometallic Complex Formed by an Unconventional Radical S-Adenosylmethionine Enzyme. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9755-8	16.4	20
172	The C-terminal heme regulatory motifs of heme oxygenase-2 are redox-regulated heme binding sites. <i>Biochemistry</i> , 2015 , 54, 2709-18	3.2	21
171	Identification of a key catalytic intermediate demonstrates that nitrogenase is activated by the reversible exchange of N ¹ for H ¹ . <i>Journal of the American Chemical Society</i> , 2015 , 137, 3610-5	16.4	83
170	Advanced paramagnetic resonance spectroscopies of iron-sulfur proteins: Electron nuclear double resonance (ENDOR) and electron spin echo envelope modulation (ESEEM). <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 1370-94	4.9	25
169	Why Nature Uses Radical SAM Enzymes so Widely: Electron Nuclear Double Resonance Studies of Lysine 2,3-Aminomutase Show the 5'-dAdo [•] Free Radical Is Never Free. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7111-21	16.4	50
168	Spectroscopic studies reveal that the heme regulatory motifs of heme oxygenase-2 are dynamically disordered and exhibit redox-dependent interaction with heme. <i>Biochemistry</i> , 2015 , 54, 2693-708	3.2	14
167	Evidence That Compound I Is the Active Species in Both the Hydroxylase and Lyase Steps by Which P450 _{scc} Converts Cholesterol to Pregnenolone: EPR/ENDOR/Cryoreduction/Annealing Studies. <i>Biochemistry</i> , 2015 , 54, 7089-97	3.2	25
166	Characterization of an Fe ²⁺ N-NH ₂ Intermediate Relevant to Catalytic N ₂ Reduction to NH ₃ . <i>Journal of the American Chemical Society</i> , 2015 , 137, 7803-7809	16.4	134
165	Composition and Structure of the Inorganic Core of Relaxed Intermediate X(Y122F) of Escherichia coli Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15558-66	16.4	15
164	Synthesis and characterization of a porphyrazine-Gd(III) MRI contrast agent and in vivo imaging of a breast cancer xenograft model. <i>Contrast Media and Molecular Imaging</i> , 2014 , 9, 313-22	3.2	15
163	Mechanism of nitrogen fixation by nitrogenase: the next stage. <i>Chemical Reviews</i> , 2014 , 114, 4041-62	68.1	1073
162	Nitrite and hydroxylamine as nitrogenase substrates: mechanistic implications for the pathway of N ₂ reduction. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12776-83	16.4	28
161	A confirmation of the quench-cryoannealing relaxation protocol for identifying reduction states of freeze-trapped nitrogenase intermediates. <i>Inorganic Chemistry</i> , 2014 , 53, 3688-93	5.1	31
160	EPR, ENDOR, and electronic structure studies of the Jahn-Teller distortion in an Fe(V) nitride. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12323-36	16.4	42

159	Free H ₂ rotation vs Jahn-Teller constraints in the nonclassical trigonal (TPB)Co-H ₂ complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14998-5009	16.4	31
158	Electron paramagnetic resonance and electron-nuclear double resonance studies of the reactions of cryogenerated hydroperoxoferric-hemoprotein intermediates. <i>Biochemistry</i> , 2014 , 53, 4894-903	3.2	12
157	Identification of the valence and coordination environment of the particulate methane monooxygenase copper centers by advanced EPR characterization. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11767-75	16.4	42
156	Internal dynamics of a supramolecular nanofibre. <i>Nature Materials</i> , 2014 , 13, 812-6	27	131
155	The use of deuterated camphor as a substrate in (1)H ENDOR studies of hydroxylation by cryoreduced oxy P450cam provides new evidence of the involvement of compound I. <i>Biochemistry</i> , 2013 , 52, 667-71	3.2	24
154	Nitrogenase: a draft mechanism. <i>Accounts of Chemical Research</i> , 2013 , 46, 587-95	24.3	282
153	Responses of Mn ²⁺ speciation in <i>Deinococcus radiodurans</i> and <i>Escherichia coli</i> to γ radiation by advanced paramagnetic resonance methods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5945-50	11.5	55
152	On reversible H ₂ loss upon N ₂ binding to FeMo-cofactor of nitrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16327-32	11.5	78
151	Electron transfer precedes ATP hydrolysis during nitrogenase catalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16414-9	11.5	74
150	Temperature invariance of the nitrogenase electron transfer mechanism. <i>Biochemistry</i> , 2012 , 51, 8391-8	3.2	11
149	Evidence for oxygen binding at the active site of particulate methane monooxygenase. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7640-3	16.4	76
148	Multi-gram synthesis of a porphyrazine platform for cellular translocation, conjugation to Doxorubicin, and cellular uptake. <i>Tetrahedron Letters</i> , 2012 , 53, 5475-5478	2	13
147	Modeling the signatures of hydrides in metalloenzymes: ENDOR analysis of a Di-iron Fe(ENH)(H)Fe core. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12637-47	16.4	37
146	Characterization of a cobalt-specific P(1B)-ATPase. <i>Biochemistry</i> , 2012 , 51, 7891-900	3.2	24
145	Compound I is the reactive intermediate in the first monooxygenation step during conversion of cholesterol to pregnenolone by cytochrome P450 _{sc} : EPR/ENDOR/cryoreduction/annealing studies. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17149-56	16.4	36
144	Characterization of the Fe-H Bond in a Three-Coordinate Terminal Hydride Complex of Iron(I). <i>Angewandte Chemie</i> , 2012 , 124, 3718-3722	3.6	15
143	Unification of reaction pathway and kinetic scheme for N ₂ reduction catalyzed by nitrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5583-7	11.5	52
142	⁵⁷ Fe ENDOR spectroscopy and 'electron inventory' analysis of the nitrogenase E4 intermediate suggest the metal-ion core of FeMo-cofactor cycles through only one redox couple. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17329-40	16.4	66

141	Active intermediates in heme monooxygenase reactions as revealed by cryoreduction/annealing, EPR/ENDOR studies. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 507, 36-43	4.1	47
140	ENDOR/HYSCORE studies of the common intermediate trapped during nitrogenase reduction of N ₂ H ₂ , CH ₃ N ₂ H, and N ₂ H ₄ support an alternating reaction pathway for N ₂ reduction. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11655-64	16.4	75
139	Design, Implementation, Simulation, and Visualization of a Highly Efficient RIM Microfluidic Mixer for Rapid Freeze-Quench of Biological Samples. <i>Applied Magnetic Resonance</i> , 2011 , 40, 415-425	0.8	8
138	Transformation of an [Fe(η -N ₂ H ₃)] ⁺ Species to π -Delocalized [Fe ₂ (η -N ₂ H ₂)] ^{2+/+} Complexes. <i>Angewandte Chemie</i> , 2011 , 123, 3508-3511	3.6	6
137	Electron transfer within nitrogenase: evidence for a deficit-spending mechanism. <i>Biochemistry</i> , 2011 , 50, 9255-63	3.2	97
136	Crystal structure and characterization of particulate methane monooxygenase from <i>Methylocystis</i> species strain M. <i>Biochemistry</i> , 2011 , 50, 10231-40	3.2	101
135	Chiral bis-acetal porphyrazines as near-infrared optical agents for detection and treatment of cancer. <i>Photochemistry and Photobiology</i> , 2010 , 86, 410-7	3.6	20
134	Chiral porphyrazine near-IR optical imaging agent exhibiting preferential tumor accumulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1284-8	11.5	64
133	Probing in vivo Mn ²⁺ speciation and oxidative stress resistance in yeast cells with electron-nuclear double resonance spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 15335-9	11.5	93
132	Paramagnetic intermediates of (E)-4-hydroxy-3-methylbut-2-enyl diphosphate synthase (GcpE/IspG) under steady-state and pre-steady-state conditions. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14509-20	16.4	35
131	Identification of a hemerythrin-like domain in a P1B-type transport ATPase. <i>Biochemistry</i> , 2010 , 49, 7060-8	3.8	22
130	Is Mo involved in hydride binding by the four-electron reduced (E ₄) intermediate of the nitrogenase MoFe protein?. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2526-7	16.4	72
129	Formation of {[HIPTN(3)N]Mo(III)H} ⁽⁻⁾ by heterolytic cleavage of H ₂ as established by EPR and ENDOR spectroscopy. <i>Inorganic Chemistry</i> , 2010 , 49, 704-13	5.1	31
128	Conformational gating of electron transfer from the nitrogenase Fe protein to MoFe protein. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6894-5	16.4	52
127	Synthesis and characterization of new porphyrazine-Gd(III) conjugates as multimodal MR contrast agents. <i>Bioconjugate Chemistry</i> , 2010 , 21, 2267-75	6.3	45
126	Uncoupling nitrogenase: catalytic reduction of hydrazine to ammonia by a MoFe protein in the absence of Fe protein-ATP. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13197-9	16.4	54
125	Experimental and theoretical EPR study of Jahn-Teller-active [HIPTN(3)N]MoL complexes (L = N(2), CO, NH(3)). <i>Journal of the American Chemical Society</i> , 2010 , 132, 8645-56	16.4	50
124	Probing the ternary complexes of indoleamine and tryptophan 2,3-dioxygenases by cryoreduction EPR and ENDOR spectroscopy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5494-500	16.4	44

123	Simulating suppression effects in Pulsed ENDOR, and the 'hole in the middle' of Mims and Davies ENDOR Spectra. <i>Applied Magnetic Resonance</i> , 2010 , 37, 763-779	0.8	24
122	EPR and ENDOR characterization of the reactive intermediates in the generation of NO by cryoreduced oxy-nitric oxide synthase from <i>Geobacillus stearothermophilus</i> . <i>Journal of the American Chemical Society</i> , 2009 , 131, 14493-507	16.4	58
121	Trapping an intermediate of dinitrogen (N ₂) reduction on nitrogenase. <i>Biochemistry</i> , 2009 , 48, 9094-102	3.2	53
120	Mechanism of Mo-dependent nitrogenase. <i>Annual Review of Biochemistry</i> , 2009 , 78, 701-22	29.1	457
119	Synthesis and characterization of periphery-functionalized porphyrazines containing mixed pyrrolyl and pyridylmethylamino groups. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009 , 13, 223-234	1.8	12
118	Climbing nitrogenase: toward a mechanism of enzymatic nitrogen fixation. <i>Accounts of Chemical Research</i> , 2009 , 42, 609-19	24.3	287
117	Structure of the nucleotide radical formed during reaction of CDP/TTP with the E441Q- α 2 β 2 of <i>E. coli</i> ribonucleotide reductase. <i>Journal of the American Chemical Society</i> , 2009 , 131, 200-11	16.4	50
116	Porphyrazines: Designer Macrocycles by Peripheral Substituent Change. <i>Australian Journal of Chemistry</i> , 2008 , 61, 235	1.2	50
115	Characterization of the microsomal cytochrome P450 2B4 O ₂ activation intermediates by cryoreduction and electron paramagnetic resonance. <i>Biochemistry</i> , 2008 , 47, 9661-6	3.2	42
114	EPR and ENDOR studies of cryoreduced compounds II of peroxidases and myoglobin. Proton-coupled electron transfer and protonation status of ferryl hemes. <i>Biochemistry</i> , 2008 , 47, 5147-55	3.2	54
113	The metal centers of particulate methane monooxygenase from <i>Methylosinus trichosporium</i> OB3b. <i>Biochemistry</i> , 2008 , 47, 6793-801	3.2	104
112	Diazene (HN=NH) is a substrate for nitrogenase: insights into the pathway of N ₂ reduction. <i>Biochemistry</i> , 2007 , 46, 6784-94	3.2	84
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