

Robert E Berry

List of Publications by Year in descending order

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34
papers

869
citations

393982

19
h-index

454577

30
g-index

35
all docs

35
docs citations

35
times ranked

645
citing authors

#	ARTICLE	IF	CITATIONS
1	The Structural Characterization of Amavadin. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 795-797.	7.2	134
2	Electrochemical and NMR spectroscopic studies of distal pocket mutants of nitrophorin 2: Stability, structure, and dynamics of axial ligand complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3778-3783.	3.3	79
3	Effects of Interdomain Tether Length and Flexibility on the Kinetics of Intramolecular Electron Transfer in Human Sulfite Oxidase. <i>Biochemistry</i> , 2010, 49, 1290-1296.	1.2	48
4	Oxidation and Loss of Heme in Soluble Guanylyl Cyclase from <i>Manduca sexta</i> . <i>Biochemistry</i> , 2011, 50, 5813-5815.	1.2	48
5	Axial ligand complexes of the Rhodnius nitrophorins: reduction potentials, binding constants, EPR spectra, and structures of the 4-iodopyrazole and imidazole complexes of NP4. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 135-144.	1.1	41
6	Assignment of the Ferriheme Resonances of the Low-Spin Complexes of Nitrophorins 1 and 4 by ¹ H and ¹³ C NMR Spectroscopy: A Comparison to Structural Data Obtained from X-ray Crystallography. <i>Inorganic Chemistry</i> , 2007, 46, 2041-2056.	1.9	40
7	Effect of the N-Terminus on Heme Cavity Structure, Ligand Equilibrium, Rate Constants, and Reduction Potentials of Nitrophorin 2 from <i>Rhodnius prolixus</i> . <i>Biochemistry</i> , 2007, 46, 6830-6843.	1.2	40
8	Spectroscopic and Functional Characterization of Nitrophorin 7 from the Blood-Feeding Insect <i>Rhodnius prolixus</i> Reveals an Important Role of Its Isoform-Specific N-Terminus for Proper Protein Function. <i>Biochemistry</i> , 2007, 46, 13254-13268.	1.2	39
9	Investigations of Amavadin. <i>Journal of Inorganic Biochemistry</i> , 2000, 80, 17-20.	1.5	38
10	New vanadium-(IV) and -(V) analogues of Amavadin. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 4509-4516.	1.1	35
11	Overexpression in <i>Escherichia coli</i> and functional reconstitution of the liposome binding ferriheme protein nitrophorin 7 from the bloodsucking bug <i>Rhodnius prolixus</i> . <i>Protein Expression and Purification</i> , 2007, 54, 183-191.	0.6	32
12	Effect of Mutation of Carboxyl Side-Chain Amino Acids Near the Heme on the Midpoint Potentials and Ligand Binding Constants of Nitrophorin 2 and Its NO, Histamine, and Imidazole Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 2313-2327.	6.6	31
13	The effect of mutation of F87 on the properties of CYP102A1-CYP4C7 chimeras: altered regiospecificity and substrate selectivity. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 813-824.	1.1	29
14	Scanning chimeragenesis: the approach used to change the substrate selectivity of fatty acid monooxygenase CYP102A1 to that of terpene β -hydroxylase CYP4C7. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 159-174.	1.1	26
15	¹ H and ¹³ C NMR spectroscopic studies of the ferriheme resonances of three low-spin complexes of wild-type nitrophorin 2 and nitrophorin 2(V24E) as a function of pH. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1077-1095.	1.1	25
16	Assignment of the Ferriheme Resonances of the High-Spin Forms of Nitrophorins 1 and 4 by ¹ H NMR Spectroscopy: A Comparison to Structural Data Obtained from X-ray Crystallography. <i>Inorganic Chemistry</i> , 2007, 46, 170-178.	1.9	23
17	Assignment of the ferriheme resonances of high- and low-spin forms of the symmetrical heme-reconstituted nitrophorins 1 and 4 by ¹ H and ¹³ C NMR spectroscopy: the dynamics of heme ruffling deformations. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 941-959.	1.1	23
18	Nuclear Inelastic Scattering and Mössbauer Spectroscopy as Local Probes for Ligand Binding Modes and Electronic Properties in Proteins: Vibrational Behavior of a Ferriheme Center inside a β -Barrel Protein. <i>Journal of the American Chemical Society</i> , 2012, 134, 4216-4228.	6.6	21

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19	Assignment of ferriheme resonances for high- and low-spin forms of nitrophorin 3 by 1H and 13C NMR spectroscopy and comparison to nitrophorin 2: Heme pocket structural similarities and differences. <i>Inorganica Chimica Acta</i> , 2008, 361, 925-940.	1.2	20
20	Unprecedented Peroxidase-like Activity of <i>Rhodnius prolixus</i> Nitrophorin 2: Identification of the $[Fe^{IV} \cdot O \text{ Por}^{\cdot+}]$ and $[Fe^{IV} \cdot O \text{ Por}](\text{Tyr38}^{\cdot-})$ Intermediates and Their Role(s) in Substrate Oxidation. <i>Biochemistry</i> , 2010, 49, 8857-8872.		14
21	Intramolecular electron transfer in sulfite-oxidizing enzymes: probing the role of aromatic amino acids. <i>Journal of Biological Inorganic Chemistry</i> , 2012, 17, 345-352.	1.1	14
22	Electron Spin Density on the Axial His Ligand of High-Spin and Low-Spin Nitrophorin 2 Probed by Heteronuclear NMR Spectroscopy. <i>Inorganic Chemistry</i> , 2013, 52, 1285-1295.	1.9	9
23	Native N-Terminus Nitrophorin 2 from the Kissing Bug: Similarities to and Differences from NP2(D1A). <i>Chemistry and Biodiversity</i> , 2012, 9, 1739-1755.	1.0	8
24	Probing the role of a conserved salt bridge in the intramolecular electron transfer kinetics of human sulfite oxidase. <i>Journal of Biological Inorganic Chemistry</i> , 2013, 18, 645-653.	1.1	8
25	NMR studies of nitrophorin distal pocket side chain effects on the heme orientation and seating of NP2 as compared to NP1. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1238-1257.	1.5	7
26	Binding of the uranyl moiety by an Amavadin-style complex; synthesis and characterisation of $[UO_2(H_2O)_3]\{l^m-V(hida)_2\} \cdot 2H_2O \cdot n$. <i>Chemical Communications</i> , 1998, , 591-592.	2.2	6
27	Effects of mutating aromatic surface residues of the heme domain of human sulfite oxidase on its heme midpoint potential, intramolecular electron transfer, and steady-state kinetics. <i>Dalton Transactions</i> , 2013, 42, 3043-3049.	1.6	6
28	How a blood sucking insect gets its meal: The ferriheme proteins Nitrophorin 2 and 4 studied by Mössbauer Spectroscopy. , 2002, , 253-256.		6
29	NMR Studies of the Dynamics of Nitrophorin 2 Bound to Nitric Oxide. <i>Biochemistry</i> , 2013, 52, 7910-7925.	1.2	5
30	NMR investigations of nitrophorin 2 belt side chain effects on heme orientation and seating of native N-terminus NP2 and NP2(D1A). <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 577-593.	1.1	4
31	Nitric oxide heme interactions in nitrophorin from <i>Cimex lectularius</i> . <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.2	4
32	Tyrosine triad at the interface between the Rieske iron-sulfur protein, cytochrome c1 and cytochrome c2 in the bc1 complex of <i>Rhodobacter capsulatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 811-818.	0.5	3
33	Dimerization of Nitrophorin 4 at Low pH and Comparison to the K1A Mutant of Nitrophorin 1. <i>Biochemistry</i> , 2015, 54, 208-220.	1.2	2
34	NMR Studies of the Dynamics of High-Spin Nitrophorins: Comparative Studies of NP4 and NP2 at Close to Physiological pH. <i>Biochemistry</i> , 2015, 54, 221-239.	1.2	1