

# Gudrun S Lukat-Rodgers

## List of Publications by Year in descending order

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33  
papers

1,199  
citations

361296

20  
h-index

414303

32  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1134  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stepwise Reduction of Dinitrogen Bond Order by a Low-Coordinate Iron Complex. <i>Journal of the American Chemical Society</i> , 2001, 123, 9222-9223.	6.6	227
2	How Active-Site Protonation State Influences the Reactivity and Ligation of the Heme in Chlorite Dismutase. <i>Journal of the American Chemical Society</i> , 2010, 132, 5711-5724.	6.6	84
3	Characterization of Ferrous FixL <sup>+</sup> Nitric Oxide Adducts by Resonance Raman Spectroscopy. <i>Biochemistry</i> , 1997, 36, 4178-4187.	1.2	76
4	The Cytoplasmic Heme-binding Protein (PhuS) from the Heme Uptake System of <i>Pseudomonas aeruginosa</i> Is an Intracellular Heme-trafficking Protein to the Î-Regioselective Heme Oxygenase. <i>Journal of Biological Chemistry</i> , 2006, 281, 13652-13662.	1.6	76
5	Structural Basis for Ligand Discrimination and Response Initiation in the Heme-Based Oxygen Sensor FixL. <i>Biochemistry</i> , 1996, 35, 9539-9548.	1.2	66
6	Heme-Based Sensing by the Mammalian Circadian Protein CLOCK. <i>Inorganic Chemistry</i> , 2010, 49, 6349-6365.	1.9	58
7	Structure-Based Mechanism for Oxidative Decarboxylation Reactions Mediated by Amino Acids and Heme Propionates in Coproheme Decarboxylase (HemQ). <i>Journal of the American Chemical Society</i> , 2017, 139, 1900-1911.	6.6	52
8	Unusual Peroxide-Dependent, Heme-Transforming Reaction Catalyzed by HemQ. <i>Biochemistry</i> , 2015, 54, 4022-4032.	1.2	46
9	Alkali Metal Variation and Twisting of the Fe <sub>2</sub> N <sub>2</sub> Core in Bridging Diiron Dinitrogen Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 2960-2968.	1.9	45
10	Understanding How the Distal Environment Directs Reactivity in Chlorite Dismutase: Spectroscopy and Reactivity of Arg183 Mutants. <i>Biochemistry</i> , 2012, 51, 1895-1910.	1.2	44
11	Effects of N <sub>2</sub> Binding Mode on Iron-Based Functionalization of Dinitrogen to Form an Iron(III) Hydrazido Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 8586-8598.	6.6	42
12	Novel Heme Ligand Displacement by CO in the Soluble Hemophore HasA and Its Proximal Ligand Mutants: Implications for Heme Uptake and Release. <i>Biochemistry</i> , 2008, 47, 2087-2098.	1.2	36
13	Spectroscopic evidence for a 5-coordinate oxygenic ligated high spin ferric heme moiety in the <i>Neisseria meningitidis</i> hemoglobin binding receptor. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 3058-3066.	1.1	31
14	A Dimeric Chlorite Dismutase Exhibits O <sub>2</sub> -Generating Activity and Acts as a Chlorite Antioxidant in <i>Klebsiella pneumoniae</i> MGH 78578. <i>Biochemistry</i> , 2015, 54, 434-446.	1.2	30
15	Heme Speciation in Alkaline Ferric FixL and Possible Tyrosine Involvement in the Signal Transduction Pathway for Regulation of Nitrogen Fixation. <i>Biochemistry</i> , 1998, 37, 13543-13552.	1.2	29
16	Enhancement of CâH Oxidizing Ability in Co <sup>2+</sup> ...Complexes through an Isolated Heterobimetallic Oxo Intermediate. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3211-3215.	7.2	27
17	Decarboxylation involving a ferryl, propionate, and a tyrosyl group in a radical relay yields heme b. <i>Journal of Biological Chemistry</i> , 2018, 293, 3989-3999.	1.6	27
18	Nitrosyl adducts of FixL as probes of heme environment. <i>Journal of Biological Inorganic Chemistry</i> , 2000, 5, 642-654.	1.1	26

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19	Peroxidase-Type Reactions Suggest a Heterolytic/Nucleophilic O <sup>+</sup> O Joining Mechanism in the Heme-Dependent Chlorite Dismutase. <i>Biochemistry</i> , 2013, 52, 6982-6994.	1.2	26
20	Mechanisms of Mitochondrial Holocytochrome c Synthase and the Key Roles Played by Cysteines and Histidine of the Heme Attachment Site, Cys-XX-Cys-His. <i>Journal of Biological Chemistry</i> , 2014, 289, 28795-28807.	1.6	22
21	Reactions of Ferrous Coproheme Decarboxylase (HemQ) with O <sub>2</sub> and H <sub>2</sub> O <sub>2</sub> Yield Ferric Heme <i>in vivo</i> . <i>Biochemistry</i> , 2017, 56, 189-201.	1.2	21
22	Spectroscopic Observation of a FixL Switching Intermediate. <i>Journal of the American Chemical Society</i> , 1999, 121, 11241-11242.	6.6	20
23	Understanding the roles of strictly conserved tryptophan residues in O <sub>2</sub> -producing chlorite dismutases. <i>Dalton Transactions</i> , 2013, 42, 3156-3169.	1.6	19
24	Heme Binding by <i>Corynebacterium diphtheriae</i> HmuT: Function and Heme Environment. <i>Biochemistry</i> , 2015, 54, 6598-6609.	1.2	17
25	Spin-state equilibria and axial ligand bonding in FixL hydroxide: a resonance raman study. <i>Journal of Biological Inorganic Chemistry</i> , 1998, 3, 274-281.	1.1	16
26	Characterization of the second conserved domain in the heme uptake protein HtaA from <i>Corynebacterium diphtheriae</i> . <i>Journal of Inorganic Biochemistry</i> , 2017, 167, 124-133.	1.5	11
27	Active Sites of O <sub>2</sub> -Evolving Chlorite Dismutases Probed by Halides and Hydroxides and New Iron-Ligand Vibrational Correlations. <i>Biochemistry</i> , 2017, 56, 4509-4524.	1.2	8
28	Distinguishing Active Site Characteristics of Chlorite Dismutases with Their Cyanide Complexes. <i>Biochemistry</i> , 2018, 57, 1501-1516.	1.2	5
29	CO and NO bind to Fe(II) DiGeorge critical region 8 heme but do not restore primary microRNA processing activity. <i>Journal of Biological Inorganic Chemistry</i> , 2016, 21, 1021-1035.	1.1	4
30	Structure and reactivity of chlorite dismutase nitrosyls. <i>Journal of Inorganic Biochemistry</i> , 2020, 211, 111203.	1.5	4
31	<i>Corynebacterium diphtheriae</i> HmuT: dissecting the roles of conserved residues in heme pocket stabilization. <i>Journal of Biological Inorganic Chemistry</i> , 2016, 21, 875-886.	1.1	2
32	Roles of High-Valent Hemes and pH Dependence in Halite Decomposition Catalyzed by Chlorite Dismutase from <i>Dechloromonas aromatica</i> . <i>ACS Catalysis</i> , 2022, 12, 8641-8657.	5.5	2
33	Biophysical Perspectives on the Acquisition, Transport, and Trafficking of Heme in Bacteria. <i>Handbook of Porphyrin Science</i> , 2013, , 249-309.	0.3	0