

Giulietta Smulevich

List of Publications by Year in descending order

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182
papers

6,123
citations

57758

44
h-index

102487

66
g-index

185
all docs

185
docs citations

185
times ranked

4064
citing authors

#	ARTICLE	IF	CITATIONS
1	Heme pocket interactions in cytochrome c peroxidase studied by site-directed mutagenesis and resonance Raman spectroscopy. <i>Biochemistry</i> , 1988, 27, 5477-5485.	2.5	176
2	Conformational change and histidine control of heme chemistry in cytochrome c peroxidase: resonance Raman evidence from Leu-52 and Gly-181 mutants of cytochrome c peroxidase. <i>Biochemistry</i> , 1991, 30, 9546-9558.	2.5	140
3	Spin State and Axial Ligand Bonding in the Hydroxide Complexes of Metmyoglobin, Methemoglobin, and Horseradish Peroxidase at Room and Low Temperatures. <i>Biochemistry</i> , 1994, 33, 4577-4583.	2.5	140
4	Mutation of Distal Residues of Horseradish Peroxidase: Influence on Substrate Binding and Cavity Properties. <i>Biochemistry</i> , 1997, 36, 1532-1543.	2.5	125
5	Interactions between the Photosystem II Subunit PsbS and Xanthophylls Studied in Vivo and in Vitro. <i>Journal of Biological Chemistry</i> , 2008, 283, 8434-8445.	3.4	125
6	Probing protein structure and dynamics with resonance Raman spectroscopy: cytochrome c peroxidase and hemoglobin. <i>Biochemistry</i> , 1990, 29, 4497-4508.	2.5	123
7	Structure of soybean seed coat peroxidase: A plant peroxidase with unusual stability and haem-apoprotein interactions. <i>Protein Science</i> , 2001, 10, 108-115.	7.6	122
8	Spectroscopic and Interfacial Properties of Myoglobin/Surfactant Complexes. <i>Biophysical Journal</i> , 2004, 87, 1186-1195.	0.5	117
9	Characterization of Recombinant Horseradish Peroxidase C and three Site-Directed mutants, F41V, F41W, and R38K by Resonance Raman Spectroscopy. <i>Biochemistry</i> , 1994, 33, 7398-7407.	2.5	106
10	Extended cardiolipin anchorage to cytochrome c: a model for protein-mitochondrial membrane binding. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 689-700.	2.6	105
11	Ibuprofen Induces an Allosteric Conformational Transition in the Heme Complex of Human Serum Albumin with Significant Effects on Heme Ligation. <i>Journal of the American Chemical Society</i> , 2008, 130, 11677-11688.	13.7	98
12	Fifteen Years of Raman Spectroscopy of Engineered Heme Containing Peroxidases: What Have We Learned?. <i>Accounts of Chemical Research</i> , 2005, 38, 433-440.	15.6	97
13	Heme to protein linkages in mammalian peroxidases: impact on spectroscopic, redox and catalytic properties. <i>Natural Product Reports</i> , 2007, 24, 571-584.	10.3	95
14	Probing the structure and bifunctionality of catalase-peroxidase (KatG). <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 568-585.	3.5	92
15	Differential Activity and Structure of Highly Similar Peroxidases. Spectroscopic, Crystallographic, and Enzymatic Analyses of Lignifying <i>Arabidopsis thaliana</i> Peroxidase A2 and Horseradish Peroxidase A2. <i>Biochemistry</i> , 2001, 40, 11013-11021.	2.5	90
16	Alternative carbon monoxide binding modes for horseradish peroxidase studied by resonance Raman spectroscopy. <i>Biochemistry</i> , 1986, 25, 4420-4425.	2.5	84
17	Role of Lysines in Cytochrome c-Cardiolipin Interaction. <i>Biochemistry</i> , 2013, 52, 4578-4588.	2.5	83
18	Fluoride Binding in Hemoproteins: The Importance of the Distal Cavity Structure. <i>Biochemistry</i> , 1997, 36, 8947-8953.	2.5	79

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19	The Quantum Mixed-Spin Heme State of Barley Peroxidase: A Paradigm for Class III Peroxidases. <i>Biophysical Journal</i> , 1999, 77, 478-492.	0.5	76
20	Cytochrome c peroxidase mutant active site structures probed by resonance Raman and infrared signatures of the CO adducts. <i>Biochemistry</i> , 1988, 27, 5486-5492.	2.5	72
21	Versatility of Heme Coordination Demonstrated in a Fungal Peroxidase. Absorption and Resonance Raman Studies of <i>Coprinus cinereus</i> Peroxidase and the Asp245 \rightarrow Asn Mutant at Various pH Values. <i>Biochemistry</i> , 1996, 35, 10576-10585.	2.5	72
22	Relationship between heme vinyl conformation and the protein matrix in peroxidases. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 725-736.	2.5	72
23	Spectroscopic Evidence for a Conformational Transition in Horseradish Peroxidase at Very Low pH. <i>Biochemistry</i> , 1997, 36, 640-649.	2.5	70
24	Raman and infrared spectra of cytochrome c peroxidase-carbon monoxide adducts in alternative conformational states. <i>Biochemistry</i> , 1986, 25, 4426-4430.	2.5	68
25	Understanding heme cavity structure of peroxidases: Comparison of electronic absorption and resonance Raman spectra with crystallographic results. <i>Biospectroscopy</i> , 1998, 4, S3-S17.	0.6	67
26	Resonance Raman investigation of ferric iron in horseradish peroxidase and its aromatic donor complexes at room and low temperatures. <i>Biochemistry</i> , 1991, 30, 772-779.	2.5	65
27	Resonance Raman Study of the Active Site of <i>Coprinus cinereus</i> Peroxidase. <i>Biochemistry</i> , 1994, 33, 15425-15432.	2.5	65
28	The Critical Role of the Proximal Calcium Ion in the Structural Properties of Horseradish Peroxidase. <i>Journal of Biological Chemistry</i> , 2001, 276, 40704-40711.	3.4	63
29	Sulfide Binding Properties of Truncated Hemoglobins. <i>Biochemistry</i> , 2010, 49, 2269-2278.	2.5	63
30	Heme-protein interactions in cytochrome c peroxidase revealed by site-directed mutagenesis and resonance Raman spectra of isotopically labeled hemes. <i>Biospectroscopy</i> , 1996, 2, 365-376.	0.6	61
31	Surface-enhanced resonance Raman spectra of adriamycin, 11-deoxycarminomycin, their model chromophores, and their complexes with DNA. <i>The Journal of Physical Chemistry</i> , 1986, 90, 6388-6392.	2.9	60
32	Intramolecular hydrogen bonding and excited state proton transfer in hydroxyanthraquinones as studied by electronic spectra, resonance Raman scattering, and transform analysis. <i>Journal of Chemical Physics</i> , 1998, 108, 534-549.	3.0	54
33	The Reactivity with CO of AHb1 and AHb2 from <i>Arabidopsis thaliana</i> is Controlled by the Distal HisE7 and Internal Hydrophobic Cavities. <i>Journal of the American Chemical Society</i> , 2007, 129, 2880-2889.	13.7	54
34	Effects of temperature and glycerol on the resonance Raman spectra of cytochrome c peroxidase and selected mutants. <i>Biochemistry</i> , 1989, 28, 5058-5064.	2.5	51
35	Electrochemistry of Unfolded Cytochrome c in Neutral and Acidic Urea Solutions. <i>Journal of the American Chemical Society</i> , 2005, 127, 7638-7646.	13.7	51
36	Internal Binding of Halogenated Phenols in Dehaloperoxidase-Hemoglobin Inhibits Peroxidase Function. <i>Biophysical Journal</i> , 2010, 99, 1586-1595.	0.5	51

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37	The heme iron coordination of unfolded ferric and ferrous cytochrome c in neutral and acidic urea solutions. Spectroscopic and electrochemical studies. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1703, 31-41.	2.3	49
38	The oxidation process of Antarctic fish hemoglobins. <i>FEBS Journal</i> , 2004, 271, 1651-1659.	0.2	48
39	Single-crystal resonance Raman spectroscopy of site-directed mutants of cytochrome c peroxidase. <i>Biochemistry</i> , 1990, 29, 7174-7180.	2.5	47
40	ATP specifically drives refolding of non-native conformations of cytochrome c. <i>Protein Science</i> , 2005, 14, 1049-1058.	7.6	47
41	Effect of pH on Axial Ligand Coordination of Cytochromecâ€” from <i>Methylophilus methylotrophus</i> and Horse Heart Cytochromecâ€”. <i>Biochemistry</i> , 2000, 39, 8234-8242.	2.5	46
42	Rupture of the Hydrogen Bond Linking Two Î©-Loops Induces the Molten Globule State at Neutral pH in Cytochrome c. <i>Biochemistry</i> , 2003, 42, 7604-7610.	2.5	46
43	Spectroscopic and Crystallographic Characterization of a Tetrameric Hemoglobin Oxidation Reveals Structural Features of the Functional Intermediate Relaxed/Tense State. <i>Journal of the American Chemical Society</i> , 2008, 130, 10527-10535.	13.7	46
44	The Role of CyaY in Iron Sulfur Cluster Assembly on the E. coli IscU Scaffold Protein. <i>PLoS ONE</i> , 2011, 6, e21992.	2.5	46
45	Fluorescence excitation and emission spectra of 1,8â€”dihydroxyanthraquinoneâ€”0 and â€”2 in nâ€”octane at 10 K. <i>Journal of Chemical Physics</i> , 1987, 87, 5664-5669.	3.0	45
46	The Distal Cavity Structure of Carbonyl Horseradish Peroxidase As Probed by the Resonance Raman Spectra of His 42 Leu and Arg 38 Leu Mutants. <i>Biochemistry</i> , 1998, 37, 13575-13581.	2.5	45
47	Spectroscopic Characterization of Recombinant Pea Cytosolic Ascorbate Peroxidase: Similarities and Differences with CytochromecPeroxidaseâ€”. <i>Biochemistry</i> , 1998, 37, 8080-8087.	2.5	45
48	Resonance Raman and electronic absorption spectra of horseradish peroxidase isozyme A2: evidence for a quantum-mixed spin species. <i>Journal of Raman Spectroscopy</i> , 1998, 29, 933-938.	2.5	44
49	A rapid spectroscopic method to detect the fraudulent treatment of tuna fish with carbon monoxide. <i>Food Chemistry</i> , 2007, 101, 1071-1077.	8.2	43
50	Heme Coordination States of Unfolded Ferrous Cytochrome c. <i>Biophysical Journal</i> , 2006, 91, 3022-3031.	0.5	42
51	The influence of pH and anions on the adsorption mechanism of rifampicin on silver colloids. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 859-864.	2.5	42
52	Benzohydroxamic Acidâ”Peroxidase Complexes: Spectroscopic Characterization of a Novel Heme Spin Species. <i>Journal of the American Chemical Society</i> , 2000, 122, 7368-7376.	13.7	41
53	Resonance Raman spectroscopy of cytochrome c peroxidase single crystals on a variable-temperature microscope stage. <i>Biochemistry</i> , 1990, 29, 2586-2592.	2.5	40
54	Effect of the His175.fwdarw. Glu Mutation on the Heme Pocket Architecture of Cytochrome c Peroxidase. <i>Biochemistry</i> , 1995, 34, 13485-13490.	2.5	40

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55	Unusual Heme Iron-Lipid Acyl Chain Coordination in Escherichia coli Flavohemoglobin. Biophysical Journal, 2004, 86, 3882-3892.	0.5	40
56	Ibuprofen Impairs Allosterically Peroxynitrite Isomerization by Ferric Human Serum Heme-Albumin. Journal of Biological Chemistry, 2009, 284, 31006-31017.	3.4	40
57	The key role played by charge in the interaction of cytochrome c with cardiolipin. Journal of Biological Inorganic Chemistry, 2017, 22, 19-29.	2.6	40
58	New Insights into the Role of Distal Histidine Flexibility in Ligand Stabilization of Dehaloperoxidase ^h Hemoglobin from <i>Amphitrite ornata</i> . Biochemistry, 2010, 49, 1903-1912.	2.5	39
59	Small ligand-globin interactions: Reviewing lessons derived from computer simulation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1722-1738.	2.3	37
60	New Insights into the Heme Cavity Structure of Catalase-Peroxidase: A Spectroscopic Approach to the Recombinant Synechocystis Enzyme and Selected Distal Cavity Mutants. Biochemistry, 2002, 41, 9237-9247.	2.5	36
61	Reactivity of Inorganic Sulfide Species toward a Heme Protein Model. Inorganic Chemistry, 2015, 54, 527-533.	4.0	36
62	Hydrogen peroxide-mediated conversion of coproheme to heme <i>b</i> by HemQ lessons from the first crystal structure and kinetic studies. FEBS Journal, 2016, 283, 4386-4401.	4.7	36
63	Raman excitation profiles and second-derivative absorption spectra of ¹² C-carotene. Journal of Chemical Physics, 1989, 91, 85-91.	3.0	35
64	Characterization of soybean seed coat peroxidase: Resonance Raman evidence for a structure-based classification of plant peroxidases. , 1998, 4, 355-364.		35
65	Role of the Main Access Channel of Catalase-Peroxidase in Catalysis. Journal of Biological Chemistry, 2005, 280, 42411-42422.	3.4	34
66	Resonance raman spectra and the active site structure of semisynthetic Met80Cys horse heart cytochrome c. Inorganic Chemistry, 1994, 33, 4629-4634.	4.0	33
67	Anion concentration modulates the conformation and stability of the molten globule of cytochrome c. Journal of Biological Inorganic Chemistry, 2003, 8, 663-670.	2.6	31
68	Comparison between Catalase-Peroxidase and Cytochrome c Peroxidase. The Role of the Hydrogen-Bond Networks for Protein Stability and Catalysis. Biochemistry, 2004, 43, 5792-5802.	2.5	31
69	Structure-function relationships in human cytochrome c: The role of tyrosine 67. Journal of Inorganic Biochemistry, 2016, 155, 56-66.	3.5	31
70	Resonance Raman assignment of myeloperoxidase and the selected mutants Asp94Val and Met243Thr. Effect of the heme distortion. Journal of Raman Spectroscopy, 2006, 37, 263-276.	2.5	30
71	Purification and characterization of a new cationic peroxidase from fresh flowers of <i>Cynara scolymus</i> L.. Journal of Inorganic Biochemistry, 2003, 94, 243-254.	3.5	29
72	Fluoride as a Probe for H-Bonding Interactions in the Active Site of Heme Proteins: The Case of <i>Thermobifida fusca</i> Hemoglobin. Journal of the American Chemical Society, 2011, 133, 20970-20980.	13.7	29

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73	Unravelling the Non-Native Low-Spin State of the Cytochrome <i>c</i> â€œCardiolipin Complex: Evidence of the Formation of a His-Ligated Species Only. <i>Biochemistry</i> , 2017, 56, 1887-1898.	2.5	29
74	A Novel Heme Protein, the Cu,Zn-Superoxide Dismutase from <i>Haemophilus ducreyi</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 30326-30334.	3.4	28
75	Structure and function of the Gondwanian hemoglobin of <i>Pseudaphritis urvillii</i> , a primitive notothenioid fish of temperate latitudes. <i>Protein Science</i> , 2009, 13, 2766-2781.	7.6	28
76	Insights into the Active Site of Coproheme Decarboxylase from <i>Listeria monocytogenes</i> . <i>Biochemistry</i> , 2018, 57, 2044-2057.	2.5	28
77	Redox Cofactor Rotates during Its Stepwise Decarboxylation: Molecular Mechanism of Conversion of Coproheme to Heme <i>b</i> . <i>ACS Catalysis</i> , 2019, 9, 6766-6782.	11.2	28
78	Biophysical Characterisation of Neuroglobin of the Icefish, a Natural Knockout for Hemoglobin and Myoglobin. Comparison with Human Neuroglobin. <i>PLoS ONE</i> , 2012, 7, e44508.	2.5	28
79	A model for the misfolded bis-His intermediate of cytochrome <i>c</i> : the 1â€œ56 N-fragment. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1067-1077.	3.5	27
80	The effects of ATP and sodium chloride on the cytochrome <i>c</i> â€œcardiolipin interaction: The contrasting behavior of the horse heart and yeast proteins. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1365-1372.	3.5	27
81	The Greenland shark <i>Somniosus microcephalus</i> â€œHemoglobins and ligand-binding properties. <i>PLoS ONE</i> , 2017, 12, e0186181.	2.5	27
82	Unusually Strong H-Bonding to the Heme Ligand and Fast Geminate Recombination Dynamics of the Carbon Monoxide Complex of <i>Bacillus subtilis</i> Truncated Hemoglobin. <i>Biochemistry</i> , 2008, 47, 902-910.	2.5	26
83	Eukaryotic extracellular catalaseâ€œperoxidase from <i>Magnaporthe grisea</i> â€œ Biophysical/chemical characterization of the first representative from a novel phytopathogenic KatG group. <i>Biochimie</i> , 2012, 94, 673-683.	2.6	26
84	Anatomy of an iron-sulfur cluster scaffold protein: Understanding the determinants of [2Feâ€œ2S] cluster stability on IscU. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1448-1456.	4.1	26
85	Molecular Mechanism of Enzymatic Chlorite Detoxification: Insights from Structural and Kinetic Studies. <i>ACS Catalysis</i> , 2017, 7, 7962-7976.	11.2	26
86	Surface Enhanced Raman Spectroscopy for In-Field Detection of Pesticides: A Test on Dimethoate Residues in Water and on Olive Leaves. <i>Molecules</i> , 2019, 24, 292.	3.8	26
87	Heme Pocket Structural Properties of a Bacterial Truncated Hemoglobin from <i>Thermobifida fusca</i> . <i>Biochemistry</i> , 2010, 49, 10394-10402.	2.5	25
88	Structural flexibility of the heme cavity in the coldâ€œadapted truncated hemoglobin from the Antarctic marine bacterium <i>Pseudoalteromonas Haloplanktis</i> <sc>TAC</sc>125. <i>FEBS Journal</i> , 2015, 282, 2948-2965.	4.7	24
89	Resonance Raman Studies of the Heme Active Site of the Homodimeric Myoglobin from <i>Nassa mutabilis</i> : A Peculiar Case. <i>Biochemistry</i> , 1995, 34, 7507-7516.	2.5	23
90	Mutation of the distal arginine in <i>Coprinus cinereus</i> peroxidase . Structural implications. <i>FEBS Journal</i> , 1998, 251, 830-838.	0.2	23

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91	Cationic Ascorbate Peroxidase Isoenzyme II from Tea: Structural Insights into the Heme Pocket of a Unique Hybrid Peroxidase. <i>Biochemistry</i> , 2001, 40, 10360-10370.	2.5	23
92	The optical spectra of fluoride complexes can effectively probe H-bonding interactions in the distal cavity of heme proteins. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1338-1343.	3.5	23
93	Raman excitation profiles of 1,8-dihydroxyanthraquinone at 8 K. <i>Chemical Physics</i> , 1986, 105, 159-171.	1.9	22
94	Effect of low temperature on soybean peroxidase: spectroscopic characterization of the quantum-mechanically admixed spin state. <i>Journal of Inorganic Biochemistry</i> , 2000, 79, 269-274.	3.5	22
95	New Insight into the Peroxidase-Hydroxamic Acid Interaction Revealed by the Combination of Spectroscopic and Crystallographic Studies. <i>Biochemistry</i> , 2003, 42, 14066-14074.	2.5	22
96	Nitrite Dismutase Reaction Mechanism: Kinetic and Spectroscopic Investigation of the Interaction between Nitrophorin and Nitrite. <i>Journal of the American Chemical Society</i> , 2015, 137, 4141-4150.	13.7	22
97	From chlorite dismutase towards HemQ: the role of the proximal H-bonding network in haeme binding. <i>Bioscience Reports</i> , 2016, 36, .	2.4	22
98	Photodissociable endogenous ligand in alkaline-reduced cytochrome c peroxidase implicates distal protein tension. <i>Biochemistry</i> , 1989, 28, 9905-9908.	2.5	21
99	Combined crystallographic and spectroscopic analysis of <i>Trematomus bernacchii</i> hemoglobin highlights analogies and differences in the peculiar oxidation pathway of Antarctic fish hemoglobins. <i>Biopolymers</i> , 2009, 91, 1117-1125.	2.4	21
100	The peculiar heme pocket of the 2/2 hemoglobin of cold-adapted <i>Pseudoalteromonas haloplanktis</i> TAC125. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 299-311.	2.6	21
101	H-bonding networks of the distal residues and water molecules in the active site of <i>Thermobifida fusca</i> hemoglobin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1901-1909.	2.3	21
102	Carbon monoxide dissociation in cytochrome c peroxidase: site-directed mutagenesis shows that distal Arg 48 influences carbon monoxide dissociation rates. <i>Biochemistry</i> , 1990, 29, 9978-9988.	2.5	20
103	pH Dependence of Structural and Functional Properties of Oxidized Cytochrome c" from <i>Methylophilus methylotrophus</i> . <i>Journal of Biological Chemistry</i> , 1997, 272, 24800-24804.	3.4	20
104	Structural Plasticity and Functional Implications of Internal Cavities in Distal Mutants of Type 1 Non-Symbiotic Hemoglobin AHb1 from <i>Arabidopsis thaliana</i> . <i>Journal of Physical Chemistry B</i> , 2009, 113, 16028-16038.	2.6	20
105	Histidine E7 Dynamics Modulates Ligand Exchange between Distal Pocket and Solvent in AHb1 from <i>Arabidopsis thaliana</i> . <i>Journal of Physical Chemistry B</i> , 2011, 115, 4138-4146.	2.6	20
106	The Met80Ala and Tyr67His/Met80Ala mutants of human cytochrome c shed light on the reciprocal role of Met80 and Tyr67 in regulating ligand access into the heme pocket. <i>Journal of Inorganic Biochemistry</i> , 2017, 169, 86-96.	3.5	20
107	Insights into the role of the histidines in the structure and stability of cytochrome c. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 52-62.	2.6	19
108	Probing the non-native states of Cytochrome c with resonance Raman spectroscopy: A tool for investigating the structure-function relationship. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1041-1055.	2.5	19

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109	The hydrogen bonding network of coproheme in coproheme decarboxylase from <i>Listeria monocytogenes</i> : Effect on structure and catalysis. <i>Journal of Inorganic Biochemistry</i> , 2019, 195, 61-70.	3.5	19
110	Role of the Distal Phenylalanine 54 on the Structure, Stability, and Ligand Binding of <i>Coprinus cinereus</i> Peroxidase. <i>Biochemistry</i> , 1999, 38, 7819-7827.	2.5	18
111	Multiphasic Kinetics of Myoglobin/Sodium Dodecyl Sulfate Complex Formation. <i>Biophysical Journal</i> , 2007, 92, 4078-4087.	0.5	18
112	Effect of sol-gel encapsulation on the unfolding of ferric horse heart cytochrome c. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 696-703.	2.6	17
113	The role of the sulfonium linkage in the stabilization of the ferrous form of myeloperoxidase: A comparison with lactoperoxidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 843-849.	2.3	17
114	Degradation of sulfide by dehaloperoxidase-hemoglobin from <i>Amphitrite ornata</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 611-619.	2.6	17
115	Mycobacterial and Human Nitrobindins: Structure and Function. <i>Antioxidants and Redox Signaling</i> , 2020, 33, 229-246.	5.4	17
116	Haem-linked interactions in horseradish peroxidase revealed by spectroscopic analysis of the Phe-221Met mutant. <i>Biochemical Journal</i> , 2001, 353, 181-191.	3.7	16
117	The 40s η -loop plays a critical role in the stability and the alkaline conformational transition of cytochrome c. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 997-1006.	2.6	16
118	Manipulating the covalent link between distal side tryptophan, tyrosine, and methionine in catalase-peroxidases: An electronic absorption and resonance Raman study. <i>Biopolymers</i> , 2004, 74, 46-50.	2.4	16
119	Nanohybrid Assemblies of Porphyrin and Au ₁₀ Cluster Nanoparticles. <i>Nanomaterials</i> , 2019, 9, 1026.	4.1	16
120	Inclusion Complex Formation of 1,8-Dihydroxyanthraquinone with Cyclodextrins in Aqueous Solution and in Solid State. <i>Journal of Pharmaceutical Sciences</i> , 1988, 77, 523-526.	3.3	15
121	Ligand- and proton-linked conformational changes of the ferrous 2/2 hemoglobin of <i>Pseudoalteromonas haloplanktis</i> TAC125. <i>IUBMB Life</i> , 2011, 63, 566-573.	3.4	15
122	Reciprocal Allosteric Modulation of Carbon Monoxide and Warfarin Binding to Ferrous Human Serum Heme-Albumin. <i>PLoS ONE</i> , 2013, 8, e58842.	2.5	15
123	Interplay of the H-Bond Donor-Acceptor Role of the Distal Residues in Hydroxyl Ligand Stabilization of <i>Thermobifida fusca</i> Truncated Hemoglobin. <i>Biochemistry</i> , 2014, 53, 8021-8030.	2.5	15
124	Spectroscopic characterization of mutations at the Phe41 position in the distal haem pocket of horseradish peroxidase C: structural and functional consequences. <i>Biochemical Journal</i> , 2002, 363, 571-579.	3.7	14
125	Effects of urea and acetic acid on the heme axial ligation structure of ferric myoglobin at very acidic pH. <i>Archives of Biochemistry and Biophysics</i> , 2009, 489, 68-75.	3.0	14
126	Occurrence and formation of endogenous histidine hexacoordination in cold-adapted hemoglobins. <i>IUBMB Life</i> , 2011, 63, 295-303.	3.4	14

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127	Surface-enhanced Raman scattering of glyphosate on dispersed silver nanoparticles: A reinterpretation based on model molecules. <i>Vibrational Spectroscopy</i> , 2020, 108, 103061.	2.2	14
128	Surface-Enhanced Raman Spectroscopy for Bisphenols Detection: Toward a Better Understanding of the Analyte–Nanosystem Interactions. <i>Nanomaterials</i> , 2021, 11, 881.	4.1	14
129	Spectroscopic and kinetic properties of the horseradish peroxidase mutant T171S. Evidence for selective effects on the reduced state of the enzyme. <i>FEBS Journal</i> , 2005, 272, 5514-5521.	4.7	13
130	High throughput headspace GC–MS quantitative method to measure the amount of carbon monoxide in treated tuna fish. <i>Journal of Mass Spectrometry</i> , 2010, 45, 1041-1045.	1.6	13
131	Evidence for pH-dependent multiple conformers in iron(II) heme–human serum albumin: spectroscopic and kinetic investigation of carbon monoxide binding. <i>Journal of Biological Inorganic Chemistry</i> , 2012, 17, 133-147.	2.6	13
132	Functional and Spectroscopic Characterization of <i>Chlamydomonas reinhardtii</i> Truncated Hemoglobins. <i>PLoS ONE</i> , 2015, 10, e0125005.	2.5	13
133	Lack of orientation selectivity of the heme insertion in murine neuroglobin revealed by resonance Raman spectroscopy. <i>FEBS Journal</i> , 2020, 287, 4082-4097.	4.7	13
134	Substrate specificity and complex stability of coproporphyrin ferrochelatase is governed by hydrogen-bonding interactions of the four propionate groups. <i>FEBS Journal</i> , 2022, 289, 1680-1699.	4.7	13
135	Surface-enhanced resonance Raman spectroscopy of rifamycins on silver nanoparticles: insight into their adsorption mechanisms. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 900-909.	2.5	12
136	ATP regulation of the ligand-binding properties in temperate and cold-adapted haemoglobins. X-ray structure and ligand-binding kinetics in the sub-Antarctic fish <i>Eleginops maclovinus</i> . <i>Molecular BioSystems</i> , 2012, 8, 3295.	2.9	12
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