

Christian Obinger

List of Publications by Year in descending order

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233
papers

9,549
citations

36303

51
h-index

60623

81
g-index

237
all docs

237
docs citations

237
times ranked

7567
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Catalases from Bacteria to Humans. <i>Antioxidants and Redox Signaling</i> , 2008, 10, 1527-1548.	5.4	358
2	Myeloperoxidase: a target for new drug development?. <i>British Journal of Pharmacology</i> , 2007, 152, 838-854.	5.4	336
3	Active site structure and catalytic mechanisms of human peroxidases. <i>Archives of Biochemistry and Biophysics</i> , 2006, 445, 199-213.	3.0	296
4	Reaction of Myeloperoxidase Compound I with Chloride, Bromide, Iodide, and Thiocyanate. <i>Biochemistry</i> , 1998, 37, 17923-17930.	2.5	270
5	Mechanism of Reaction of Myeloperoxidase with Nitrite. <i>Journal of Biological Chemistry</i> , 2000, 275, 20597-20601.	3.4	210
6	Independent evolution of four heme peroxidase superfamilies. <i>Archives of Biochemistry and Biophysics</i> , 2015, 574, 108-119.	3.0	184
7	Mechanisms of catalase activity of heme peroxidases. <i>Archives of Biochemistry and Biophysics</i> , 2010, 500, 74-81.	3.0	153
8	Molecular evolution of hydrogen peroxide degrading enzymes. <i>Archives of Biochemistry and Biophysics</i> , 2012, 525, 131-144.	3.0	143
9	The peroxidase-cyclooxygenase superfamily: Reconstructed evolution of critical enzymes of the innate immune system. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 589-605.	2.6	140
10	Reaction of Lactoperoxidase Compound I with Halides and Thiocyanate. <i>Biochemistry</i> , 2002, 41, 11895-11900.	2.5	124
11	Occurrence, phylogeny, structure, and function of catalases and peroxidases in cyanobacteria. <i>Journal of Experimental Botany</i> , 2009, 60, 423-440.	4.8	116
12	Spectral and Kinetic Studies on the Formation of Eosinophil Peroxidase Compound I and Its Reaction with Halides and Thiocyanate. <i>Biochemistry</i> , 2000, 39, 15578-15584.	2.5	111
13	Protein-Based Radicals in the Catalase-Peroxidase of <i>Synechocystis</i> PCC6803: A Multifrequency EPR Investigation of Wild-Type and Variants on the Environment of the Heme Active Site. <i>Journal of the American Chemical Society</i> , 2003, 125, 14093-14102.	13.7	108
14	Redox properties of the couples compound I/compound II and compound II/native enzyme of human myeloperoxidase. <i>Biochemical and Biophysical Research Communications</i> , 2003, 301, 551-557.	2.1	104
15	Mechanism of reaction of myeloperoxidase with hydrogen peroxide and chloride ion. <i>FEBS Journal</i> , 2000, 267, 5858-5864.	0.2	101
16	Kinetics and Thermodynamics of Halide and Nitrite Oxidation by Mammalian Heme Peroxidases. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3801-3811.	2.0	96
17	Interactions of hydrogen sulfide with myeloperoxidase. <i>British Journal of Pharmacology</i> , 2015, 172, 1516-1532.	5.4	96
18	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

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19	Probing the structure and bifunctionality of catalase-peroxidase (KatG). <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 568-585.	3.5	92
20	Redox properties of the couple compound I/native enzyme of myeloperoxidase and eosinophil peroxidase. <i>FEBS Journal</i> , 2001, 268, 5142-5148.	0.2	90
21	Phylogenetic distribution of catalase-peroxidases: Are there patches of order in chaos?. <i>Gene</i> , 2007, 397, 101-113.	2.2	86
22	Redox Intermediates of Plant and Mammalian Peroxidases: A Comparative Transient-Kinetic Study of Their Reactivity Toward Indole Derivatives. <i>Archives of Biochemistry and Biophysics</i> , 2002, 398, 12-22.	3.0	84
23	The molecular peculiarities of catalase-peroxidases. <i>FEBS Letters</i> , 2001, 492, 177-182.	2.8	81
24	Structural and functional characterisation of the chlorite dismutase from the nitrite-oxidizing bacterium <i>Candidatus Nitrospira defluvii</i> . Identification of a catalytically important amino acid residue. <i>Journal of Structural Biology</i> , 2010, 172, 331-342.	2.8	79
25	Mechanism of interaction of betanin and indicaxanthin with human myeloperoxidase and hypochlorous acid. <i>Biochemical and Biophysical Research Communications</i> , 2005, 332, 837-844.	2.1	78
26	Unexpected Diversity of Chlorite Dismutases: a Catalytically Efficient Dimeric Enzyme from <i>Nitrobacter winogradskyi</i> . <i>Journal of Bacteriology</i> , 2011, 193, 2408-2417.	2.2	76
27	Directed evolution of proteins for increased stability and expression using yeast display. <i>Archives of Biochemistry and Biophysics</i> , 2012, 526, 174-180.	3.0	76
28	Kinetics of oxidation of aliphatic and aromatic thiols by myeloperoxidase compounds I and II. <i>FEBS Letters</i> , 1999, 443, 290-296.	2.8	75
29	Redox properties of myeloperoxidase. <i>Redox Report</i> , 2003, 8, 179-186.	4.5	75
30	Effect of Distal Cavity Mutations on the Formation of Compound I in Catalase-Peroxidases. <i>Journal of Biological Chemistry</i> , 2000, 275, 22854-22861.	3.4	74
31	Total Conversion of Bifunctional Catalase-Peroxidase (KatG) to Monofunctional Peroxidase by Exchange of a Conserved Distal Side Tyrosine. <i>Journal of Biological Chemistry</i> , 2003, 278, 20185-20191.	3.4	73
32	SEC-ICP-DRCMS and SEC-ICP-SFMS for determination of metal-sulfur ratios in metalloproteins. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 74-79.	3.0	71
33	Evolution of structure and function of Class I peroxidases. <i>Archives of Biochemistry and Biophysics</i> , 2010, 500, 45-57.	3.0	71
34	The respiratory chain of blue-green algae (cyanobacteria). <i>Physiologia Plantarum</i> , 2004, 120, 358-369.	5.2	70
35	Exploitation of the unusual thermodynamic properties of human myeloperoxidase in inhibitor design. <i>Biochemical Pharmacology</i> , 2005, 69, 1149-1157.	4.4	70
36	Turning points in the evolution of peroxidase-catalase superfamily: molecular phylogeny of hybrid heme peroxidases. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 4681-4696.	5.4	70

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37	Activity, Peroxide Compound Formation, and Heme d Synthesis in <i>Escherichia coli</i> HPII Catalase. <i>Archives of Biochemistry and Biophysics</i> , 1997, 342, 58-67.	3.0	68
38	Essential Role of Proximal Histidine-Asparagine Interaction in Mammalian Peroxidases. <i>Journal of Biological Chemistry</i> , 2009, 284, 25929-25937.	3.4	68
39	Purification and Characterization of a Homodimeric Catalase-Peroxidase from the Cyanobacterium <i>Anacystis nidulans</i> . <i>Biochemical and Biophysical Research Communications</i> , 1997, 235, 545-552.	2.1	62
40	Heterolytic Reduction of Fatty Acid Hydroperoxides by Cytochrome <i>c</i> /Cardiolipin Complexes: Antioxidant Function in Mitochondria. <i>Journal of the American Chemical Society</i> , 2009, 131, 11288-11289.	13.7	62
41	The bioenergetic role of dioxygen and the terminal oxidase(s) in cyanobacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1707, 231-253.	1.0	61
42	Transient and Steady-state Kinetics of the Oxidation of Substituted Benzoic Acid Hydrazides by Myeloperoxidase. <i>Journal of Biological Chemistry</i> , 1999, 274, 9494-9502.	3.4	60
43	Two-electron reduction and one-electron oxidation of organic hydroperoxides by human myeloperoxidase. <i>FEBS Letters</i> , 2000, 484, 139-143.	2.8	59
44	Mechanism of Reaction of Melatonin with Human Myeloperoxidase. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 380-386.	2.1	59
45	A conformation-specific ON-switch for controlling CAR T cells with an orally available drug. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14926-14935.	7.1	59
46	Influence of the Unusual Covalent Adduct on the Kinetics and Formation of Radical Intermediates in <i>Synechocystis</i> Catalase Peroxidase. <i>Journal of Biological Chemistry</i> , 2004, 279, 46082-46095.	3.4	57
47	Transient-state and steady-state kinetics of the oxidation of aliphatic and aromatic thiols by horseradish peroxidase. <i>FEBS Letters</i> , 1997, 411, 269-274.	2.8	56
48	Distal Site Aspartate Is Essential in the Catalase Activity of Catalase-Peroxidases. <i>Biochemistry</i> , 2003, 42, 5292-5300.	2.5	56
49	Redox Thermodynamics of the Fe(III)/Fe(II) Couple of Human Myeloperoxidase in Its High-Spin and Low-Spin Forms. <i>Biochemistry</i> , 2006, 45, 12750-12755.	2.5	56
50	Inactivation of human myeloperoxidase by hydrogen peroxide. <i>Archives of Biochemistry and Biophysics</i> , 2013, 539, 51-62.	3.0	56
51	Impact of myeloperoxidase-LDL interactions on enzyme activity and subsequent posttranslational oxidative modifications of apoB-100. <i>Journal of Lipid Research</i> , 2014, 55, 747-757.	4.2	55
52	Chlorite dismutases – a heme enzyme family for use in bioremediation and generation of molecular oxygen. <i>Biotechnology Journal</i> , 2014, 9, 461-473.	3.5	55
53	Standard reduction potentials of all couples of the peroxidase cycle of lactoperoxidase. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 1220-1229.	3.5	53
54	Engineering AvidCARs for combinatorial antigen recognition and reversible control of CAR function. <i>Nature Communications</i> , 2020, 11, 4166.	12.8	53

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55	Glycosylation Pattern of Mature Dimeric Leukocyte and Recombinant Monomeric Myeloperoxidase. <i>Journal of Biological Chemistry</i> , 2010, 285, 16351-16359.	3.4	52
56	Molecular Evolution, Structure, and Function of Peroxidasins. <i>Chemistry and Biodiversity</i> , 2012, 9, 1776-1793.	2.1	51
57	Catalase-Peroxidase from <i>Synechocystis</i> Is Capable of Chlorination and Bromination Reactions. <i>Biochemical and Biophysical Research Communications</i> , 2001, 287, 682-687.	2.1	50
58	Redox Intermediates in the Catalase Cycle of Catalase-Peroxidases from <i>Synechocystis</i> PCC 6803, <i>Burkholderia pseudomallei</i> , and <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2007, 46, 1183-1193.	2.5	50
59	Directed evolution of stabilized IgG1-Fc scaffolds by application of strong heat shock to libraries displayed on yeast. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 542-549.	2.3	50
60	Correlation between immuno-gold labels and activities of the cytochrome-c oxidase (aa3-type) in membranes of salt stressed cyanobacteria. <i>FEMS Microbiology Letters</i> , 1994, 124, 431-437.	1.8	49
61	Structure-Based Design, Synthesis, and Pharmacological Evaluation of 3-(Aminoalkyl)-5-fluoroindoles as Myeloperoxidase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 8747-8759.	6.4	49
62	Construction of a Stability Landscape of the CH3 Domain of Human IgG1 by Combining Directed Evolution with High Throughput Sequencing. <i>Journal of Molecular Biology</i> , 2012, 423, 397-412.	4.2	48
63	Spectral and Kinetic Studies of the Oxidation of Monosubstituted Phenols and Anilines by Recombinant <i>Synechocystis</i> Catalase-Peroxidase Compound. <i>Biochemistry</i> , 1999, 38, 10480-10488.	2.5	47
64	Occurrence and biochemistry of hydroperoxidases in oxygenic phototrophic prokaryotes (cyanobacteria). <i>Plant Physiology and Biochemistry</i> , 2002, 40, 479-490.	5.8	46
65	Hypochlorite-modified high-density lipoprotein acts as a sink for myeloperoxidase in vitro. <i>Cardiovascular Research</i> , 2008, 79, 187-194.	3.8	46
66	Transiently Produced Hypochlorite Is Responsible for the Irreversible Inhibition of Chlorite Dismutase. <i>Biochemistry</i> , 2014, 53, 3145-3157.	2.5	46
67	Catalase-Peroxidase from the Cyanobacterium <i>Synechocystis</i> PCC 6803: Cloning, Overexpression in <i>Escherichia coli</i> , and Kinetic Characterization. <i>Biological Chemistry</i> , 1999, 380, 1087-96.	2.5	44
68	Structure and heme-binding properties of HemQ (chlorite dismutase-like protein) from <i>Listeria monocytogenes</i> . <i>Archives of Biochemistry and Biophysics</i> , 2015, 574, 36-48.	3.0	44
69	Distal side tryptophan, tyrosine and methionine in catalase-peroxidases are covalently linked in solution. <i>FEBS Letters</i> , 2003, 552, 135-140.	2.8	43
70	The Iron Superoxide Dismutase from the Filamentous Cyanobacterium <i>Nostoc</i> PCC 7120. <i>Journal of Biological Chemistry</i> , 2004, 279, 44384-44393.	3.4	43
71	Hydrogen peroxide oxidation by catalase-peroxidase follows a non-scrambling mechanism. <i>FEBS Letters</i> , 2007, 581, 320-324.	2.8	42
72	Genome sequence of the filamentous soil fungus <i>Chaetomium cochliodes</i> reveals abundance of genes for heme enzymes from all peroxidase and catalase superfamilies. <i>BMC Genomics</i> , 2016, 17, 763.	2.8	41

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73	Exploring Site-Specific N-Glycosylation of HEK293 and Plant-Produced Human IgA Isotypes. <i>Journal of Proteome Research</i> , 2017, 16, 2560-2570.	3.7	41
74	Roles of distal aspartate and arginine of B-class dye-decolorizing peroxidase in heterolytic hydrogen peroxide cleavage. <i>Journal of Biological Chemistry</i> , 2018, 293, 14823-14838.	3.4	41
75	Biochemical Characterization of a Membrane-bound Manganese-containing Superoxide Dismutase from the Cyanobacterium <i>Anabaena</i> PCC 7120. <i>Journal of Biological Chemistry</i> , 2002, 277, 43615-43622.	3.4	39
76	The 2.0 Å Resolution Structure of the Catalytic Portion of a Cyanobacterial Membrane-bound Manganese Superoxide Dismutase. <i>Journal of Molecular Biology</i> , 2002, 321, 479-489.	4.2	39
77	Two distinct groups of fungal catalase/peroxidases. <i>Biochemical Society Transactions</i> , 2009, 37, 772-777.	3.4	38
78	Influence of the Covalent Heme-Protein Bonds on the Redox Thermodynamics of Human Myeloperoxidase. <i>Biochemistry</i> , 2011, 50, 7987-7994.	2.5	38
79	Structure of human promyeloperoxidase (proMPO) and the role of the propeptide in processing and maturation. <i>Journal of Biological Chemistry</i> , 2017, 292, 8244-8261.	3.4	38
80	Mechanisms of myeloperoxidase catalyzed oxidation of H ₂ S by H ₂ O ₂ or O ₂ to produce potent protein Cys-polysulfide-inducing species. <i>Free Radical Biology and Medicine</i> , 2017, 113, 551-563.	2.9	37
81	Cytochrome oxidase in <i>Anacystis nidulans</i> : stoichiometries and possible functions in the cytoplasmic and thylakoid membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1992, 1098, 184-190.	1.0	36
82	New Insights into the Heme Cavity Structure of Catalase-Peroxidase: A Spectroscopic Approach to the Recombinant <i>Synechocystis</i> Enzyme and Selected Distal Cavity Mutants. <i>Biochemistry</i> , 2002, 41, 9237-9247.	2.5	36
83	Studying metal integration in native and recombinant copper proteins by hyphenated ICP-DRC-MS and ESI-TOF-MS capabilities and limitations of the complementary techniques. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 1224-1231.	3.0	36
84	Hydrogen peroxide-mediated conversion of coproheme to heme <i>b₅</i> by HemQ lessons from the first crystal structure and kinetic studies. <i>FEBS Journal</i> , 2016, 283, 4386-4401.	4.7	36
85	Pre-steady-state Kinetics Reveal the Substrate Specificity and Mechanism of Halide Oxidation of Truncated Human Peroxidase 1. <i>Journal of Biological Chemistry</i> , 2017, 292, 4583-4592.	3.4	36
86	Myeloperoxidase-catalyzed oxidation of cyanide to cyanate: A potential carbamylation route involved in the formation of atherosclerotic plaques?. <i>Journal of Biological Chemistry</i> , 2018, 293, 6374-6386.	3.4	36
87	Direct conversion of ferrous myeloperoxidase to compound II by hydrogen peroxide: an anaerobic stopped-flow study. <i>Biochemical and Biophysical Research Communications</i> , 2003, 312, 292-298.	2.1	35
88	Kinetics of Interconversion of Ferrous Enzymes, Compound II and Compound III, of Wild-type <i>Synechocystis</i> Catalase-peroxidase and Y249F. <i>Journal of Biological Chemistry</i> , 2005, 280, 9037-9042.	3.4	35
89	Peroxynitrite efficiently mediates the interconversion of redox intermediates of myeloperoxidase. <i>Biochemical and Biophysical Research Communications</i> , 2005, 337, 944-954.	2.1	35
90	Reaction of ferrous lactoperoxidase with hydrogen peroxide and dioxygen: an anaerobic stopped-flow study. <i>Archives of Biochemistry and Biophysics</i> , 2005, 434, 51-59.	3.0	35

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91	Flavonoids as promoters of the (pseudo-)halogenating activity of lactoperoxidase and myeloperoxidase. <i>Free Radical Biology and Medicine</i> , 2016, 97, 307-319.	2.9	35
92	Engineered IgG1â€‘Fc â€‘ one fragment to bind them all. <i>Immunological Reviews</i> , 2016, 270, 113-131.	6.0	35
93	Molecular Phylogeny of Heme Peroxidases. , 2010, , 7-35.		35
94	Scavenging of superoxide and hydrogen peroxide in blue-green algae (cyanobacteria). <i>Physiologia Plantarum</i> , 1998, 104, 693-698.	5.2	34
95	Role of the Main Access Channel of Catalase-Peroxidase in Catalysis. <i>Journal of Biological Chemistry</i> , 2005, 280, 42411-42422.	3.4	34
96	Role of the Covalent Glutamic Acid 242â€™Heme Linkage in the Formation and Reactivity of Redox Intermediates of Human Myeloperoxidaseâ€™. <i>Biochemistry</i> , 2005, 44, 6482-6491.	2.5	34
97	Redox thermodynamics of lactoperoxidase and eosinophil peroxidase. <i>Archives of Biochemistry and Biophysics</i> , 2010, 494, 72-77.	3.0	34
98	Directed evolution of Her2/neu-binding IgG1-Fc for improved stability and resistance to aggregation by using yeast surface display. <i>Protein Engineering, Design and Selection</i> , 2013, 26, 255-265.	2.1	34
99	Discovery of Novel Potent Reversible and Irreversible Myeloperoxidase Inhibitors Using Virtual Screening Procedure. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 6563-6586.	6.4	34
100	Conformational changes of Mal d 2, a thaumatin-like apple allergen, induced by food processing. <i>Food Chemistry</i> , 2009, 112, 803-811.	8.2	33
101	Design, Synthesis, and Structureâ€™Activity Relationship Studies of Novel 3-Alkylindole Derivatives as Selective and Highly Potent Myeloperoxidase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 3943-3958.	6.4	33
102	X-rayâ€™induced photoreduction of heme metal centers rapidly induces active-site perturbations in a protein-independent manner. <i>Journal of Biological Chemistry</i> , 2020, 295, 13488-13501.	3.4	33
103	A transient kinetic study on the reactivity of recombinant unprocessed monomeric myeloperoxidase. <i>FEBS Letters</i> , 2001, 503, 147-150.	2.8	32
104	Identification of Trp106 as the tryptophanyl radical intermediate in <i>Synechocystis</i> PCC6803 catalase-peroxidase by multifrequency Electron Paramagnetic Resonance spectroscopy. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 1091-1099.	3.5	32
105	Manipulating Conserved Heme Cavity Residues of Chlorite Dismutase: Effect on Structure, Redox Chemistry, and Reactivity. <i>Biochemistry</i> , 2014, 53, 77-89.	2.5	32
106	Identification of a periplasmic c-type cytochrome as electron donor to the plasma membrane-bound cytochrome oxidase of the cyanobacterium <i>Nostoc</i> Mac. <i>Biochemical and Biophysical Research Communications</i> , 1990, 169, 492-501.	2.1	31
107	Purification and characterization of a hydroperoxidase from the cyanobacterium <i>Synechocystis</i> PCC 6803: identification of its gene by peptide mass mapping using matrix assisted laser desorption ionization time-of-flight mass spectrometry. <i>FEMS Microbiology Letters</i> , 1999, 170, 1-12.	1.8	31
108	Comparison between Catalase-Peroxidase and Cytochrome c Peroxidase. The Role of the Hydrogen-Bond Networks for Protein Stability and Catalysis. <i>Biochemistry</i> , 2004, 43, 5792-5802.	2.5	31

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109	Resonance Raman assignment of myeloperoxidase and the selected mutants Asp94Val and Met243Thr. Effect of the heme distortion. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 263-276.	2.5	30
110	The vinyl-sulfonium bond in human myeloperoxidase: Impact on compound I formation and reduction by halides and thiocyanate. <i>Biochemical and Biophysical Research Communications</i> , 2007, 356, 450-456.	2.1	30
111	Mechanism of reaction of horseradish peroxidase with chlorite and chlorine dioxide. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 293-302.	3.5	30
112	Evaluation of New Scaffolds of Myeloperoxidase Inhibitors by Rational Design Combined with High-Throughput Virtual Screening. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 7208-7218.	6.4	30
113	Redox Thermodynamics of High-Spin and Low-Spin Forms of Chlorite Dismutases with Diverse Subunit and Oligomeric Structures. <i>Biochemistry</i> , 2012, 51, 9501-9512.	2.5	30
114	Isoniazid as a substrate and inhibitor of myeloperoxidase: Identification of amine adducts and the influence of superoxide dismutase on their formation. <i>Biochemical Pharmacology</i> , 2012, 84, 949-960.	4.4	30
115	Construction of pH-sensitive Her2-binding IgG1-Fc by directed evolution. <i>Biotechnology Journal</i> , 2014, 9, 1013-1022.	3.5	30
116	Myeloperoxidase-catalyzed taurine chlorination: Initial versus equilibrium rate. <i>Archives of Biochemistry and Biophysics</i> , 2007, 466, 221-233.	3.0	29
117	Fc-HER2 Interaction: a Model of Three Lessons from X-Ray and Solution Studies. <i>Structure</i> , 2017, 25, 878-889.e5.	3.3	29
118	Distinct Fcγ receptor N-glycans modulate the binding affinity to immunoglobulin A (IgA) antibodies. <i>Journal of Biological Chemistry</i> , 2019, 294, 13995-14008.	3.4	29
119	(-)-Epicatechin enhances the chlorinating activity of human myeloperoxidase. <i>Archives of Biochemistry and Biophysics</i> , 2010, 495, 21-27.	3.0	28
120	Conformational and thermal stability of mature dimeric human myeloperoxidase and a recombinant monomeric form from CHO cells. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 375-387.	2.3	28
121	Insights into the Active Site of Coproheme Decarboxylase from <i>Listeria monocytogenes</i> . <i>Biochemistry</i> , 2018, 57, 2044-2057.	2.5	28
122	Redox Cofactor Rotates during Its Stepwise Decarboxylation: Molecular Mechanism of Conversion of Coproheme to Heme. <i>ACS Catalysis</i> , 2019, 9, 6766-6782.	11.2	28
123	Soluble CuA Domain of Cyanobacterial Cytochrome c Oxidase. <i>Journal of Biological Chemistry</i> , 2004, 279, 10293-10303.	3.4	27
124	Myeloperoxidase-catalyzed chlorination: The quest for the active species. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 1300-1311.	3.5	27
125	Redox Thermodynamics of the Ferric-Ferrous Couple of Wild-Type <i>Synechocystis</i> KatG and KatG(Y249F). <i>Biochemistry</i> , 2006, 45, 4768-4774.	2.5	26
126	Cyanobacterial cytochrome cM: Probing its role as electron donor for CuA of cytochrome c oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 135-143.	1.0	26

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127	Eukaryotic extracellular catalaseâ€“peroxidase from <i>Magnaporthe grisea</i> â€“ Biophysical/chemical characterization of the first representative from a novel phytopathogenic KatG group. <i>Biochimie</i> , 2012, 94, 673-683.	2.6	26
128	Mechanism of chlorite degradation to chloride and dioxygen by the enzyme chlorite dismutase. <i>Archives of Biochemistry and Biophysics</i> , 2015, 574, 18-26.	3.0	26
129	Molecular Mechanism of Enzymatic Chlorite Detoxification: Insights from Structural and Kinetic Studies. <i>ACS Catalysis</i> , 2017, 7, 7962-7976.	11.2	26
130	Long-Term Effects of (â€“)-Epigallocatechin Gallate (EGCG) on Pristane-Induced Arthritis (PIA) in Female Dark Agouti Rats. <i>PLoS ONE</i> , 2016, 11, e0152518.	2.5	26
131	Engineering the proximal heme cavity of catalase-peroxidase. <i>Journal of Inorganic Biochemistry</i> , 2002, 91, 78-86.	3.5	25
132	Disruption of the Aspartate to Heme Ester Linkage in Human Myeloperoxidase. <i>Journal of Biological Chemistry</i> , 2007, 282, 17041-17052.	3.4	25
133	Mechanism of reaction of chlorite with mammalian heme peroxidases. <i>Journal of Inorganic Biochemistry</i> , 2014, 135, 10-19.	3.5	25
134	Multidomain Human Peroxidase 1 Is a Highly Glycosylated and Stable Homotrimeric High Spin Ferric Peroxidase. <i>Journal of Biological Chemistry</i> , 2015, 290, 10876-10890.	3.4	25
135	Human peroxidase 1 promotes angiogenesis through ERK1/2, Akt, and FAK pathways. <i>Cardiovascular Research</i> , 2019, 115, 463-475.	3.8	25
136	Kinetics of oxygen binding to ferrous myeloperoxidase. <i>Archives of Biochemistry and Biophysics</i> , 2004, 426, 91-97.	3.0	24
137	Intracellular catalase/peroxidase from the phytopathogenic rice blast fungus <i>Magnaporthe grisea</i> : expression analysis and biochemical characterization of the recombinant protein. <i>Biochemical Journal</i> , 2009, 418, 443-451.	3.7	24
138	Chemistry and Molecular Dynamics Simulations of Heme b-HemQ and Coproheme-HemQ. <i>Biochemistry</i> , 2016, 55, 5398-5412.	2.5	24
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