

Stefan Hofbauer

List of Publications by Year in descending order

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53
papers

1,207
citations

361413

20
h-index

414414

32
g-index

55
all docs

55
docs citations

55
times ranked

1094
citing authors

#	ARTICLE	IF	CITATIONS
1	Substrate specificity and complex stability of coproporphyrin ferrochelatase is governed by hydrogenâ€bonding interactions of the four propionate groups. <i>FEBS Journal</i> , 2022, 289, 1680-1699.	4.7	13
2	An active site at work â€ the role of key residues in <i>C. diptheriae</i> coproheme decarboxylase. <i>Journal of Inorganic Biochemistry</i> , 2022, 229, 111718.	3.5	9
3	Impact of the dynamics of the catalytic arginine on nitrite and chlorite binding by dimeric chlorite dismutase. <i>Journal of Inorganic Biochemistry</i> , 2022, 227, 111689.	3.5	3
4	Glycosylation site Asn168 is important for slow in vivo clearance of recombinant human diamine oxidase heparin-binding motif mutants. <i>Glycobiology</i> , 2022, , .	2.5	0
5	Understanding molecular enzymology of porphyrin-binding Î±-Î² barrel proteins - One fold, multiple functions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2021, 1869, 140536.	2.3	24
6	Arresting the Catalytic Arginine in Chlorite Dismutases: Impact on Heme Coordination, Thermal Stability, and Catalysis. <i>Biochemistry</i> , 2021, 60, 621-634.	2.5	4
7	Evolution, Structure and Biochemistry of Human Peroxidases. , 2021, , 3-20.		1
8	Reaction intermediate rotation during the decarboxylation of coproheme to heme b in <i>C.Âdiphtheriae</i> . <i>Biophysical Journal</i> , 2021, 120, 3600-3614.	0.5	12
9	Pseudoperoxidase activity, conformational stability and aggregation propensity of the His98Tyr myoglobin variant: Implications for the onset of myoglobinopathy. <i>FEBS Journal</i> , 2021, , .	4.7	1
10	Initial Steps to Engineer Coproheme Decarboxylase to Obtain Stereospecific Monovinyl, Monopropionyl Deuterohemes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 807678.	4.1	3
11	Monomeric and homotrimeric solution structures of truncated human peroxidasin 1 variants. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140249.	2.3	11
12	Crystal structures and calorimetry reveal catalytically relevant binding mode of coproporphyrin and coproheme in coproporphyrin ferrochelatase. <i>FEBS Journal</i> , 2020, 287, 2779-2796.	4.7	22
13	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
14	The leucine-rich repeat domain of human peroxidasin 1 promotes binding to laminin in basement membranes. <i>Archives of Biochemistry and Biophysics</i> , 2020, 689, 108443.	3.0	13
15	Reaction of human peroxidasin 1 compound I and compound II with one-electron donors. <i>Archives of Biochemistry and Biophysics</i> , 2020, 681, 108267.	3.0	10
16	Actinobacterial Coproheme Decarboxylases Use Histidine as a Distal Base to Promote Compound I Formation. <i>ACS Catalysis</i> , 2020, 10, 5405-5418.	11.2	19
17	Redox thermodynamics of B-class dye-decolorizing peroxidases. <i>Journal of Inorganic Biochemistry</i> , 2019, 199, 110761.	3.5	18
18	Redox Cofactor Rotates during Its Stepwise Decarboxylation: Molecular Mechanism of Conversion of Coproheme to Heme <i><i>b</i></i> . <i>ACS Catalysis</i> , 2019, 9, 6766-6782.	11.2	28

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19	Myoglobinopathy is an adult-onset autosomal dominant myopathy with characteristic sarcoplasmic inclusions. <i>Nature Communications</i> , 2019, 10, 1396.	12.8	11
20	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
21	Coproheme decarboxylases - Phylogenetic prediction versus biochemical experiments. <i>Archives of Biochemistry and Biophysics</i> , 2018, 640, 27-36.	3.0	30
22	Insights into the Active Site of Coproheme Decarboxylase from <i>Listeria monocytogenes</i> . <i>Biochemistry</i> , 2018, 57, 2044-2057.	2.5	28
23	Posttranslational modification of heme in peroxidases – Impact on structure and catalysis. <i>Archives of Biochemistry and Biophysics</i> , 2018, 643, 14-23.	3.0	22
24	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
25	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
26	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
27	Molecular Mechanism of Enzymatic Chlorite Detoxification: Insights from Structural and Kinetic Studies. <i>ACS Catalysis</i> , 2017, 7, 7962-7976.	11.2	26
28	Posttranslational Modification of Heme <i>b</i> in a Bacterial Peroxidase: The Role of Heme to Protein Ester Bonds in Ligand Binding and Catalysis. <i>Biochemistry</i> , 2017, 56, 4525-4538.	2.5	10
29	Chemistry and Molecular Dynamics Simulations of Heme <i>b</i> -HemQ and Coproheme-HemQ. <i>Biochemistry</i> , 2016, 55, 5398-5412.	2.5	24
30	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
31	Dye decolorizing peroxidases – A new heme-peroxidase family with ancient roots. <i>New Biotechnology</i> , 2016, 33, S4.	4.4	0
32	Clickable 4-oxo- β -lactam-Based Selective Probing for Human Neutrophil Elastase Related Proteomes. <i>ChemMedChem</i> , 2016, 11, 2037-2042.	3.2	24
33	Hydrogen peroxide-mediated conversion of coproheme to heme <i>b</i> by HemQ – lessons from the first crystal structure and kinetic studies. <i>FEBS Journal</i> , 2016, 283, 4386-4401.	4.7	36
34	Dimeric chlorite dismutase from the nitrogen-fixing cyanobacterium <i>Cyanothece</i> sp. PCC 7425. <i>Molecular Microbiology</i> , 2015, 96, 1053-1068.	2.5	22
35	Stabilization of porcine pancreatic elastase crystals by glutaraldehyde cross-linking. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 1346-1351.	0.8	7
36	Eukaryotic Catalase-Peroxidase: The Role of the Trp-Tyr-Met Adduct in Protein Stability, Substrate Accessibility, and Catalysis of Hydrogen Peroxide Dismutation. <i>Biochemistry</i> , 2015, 54, 5425-5438.	2.5	3

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37	Independent evolution of four heme peroxidase superfamilies. Archives of Biochemistry and Biophysics, 2015, 574, 108-119.	3.0	184
38	Structure and heme-binding properties of HemQ (chlorite dismutase-like protein) from <i>Listeria monocytogenes</i> . Archives of Biochemistry and Biophysics, 2015, 574, 36-48.	3.0	44
39	Mechanism of chlorite degradation to chloride and dioxygen by the enzyme chlorite dismutase. Archives of Biochemistry and Biophysics, 2015, 574, 18-26.	3.0	26
40	Introduction of germline residues improves the stability of anti-HIV mAb 2G12-IgM. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1536-1544.	2.3	7
41	Chlorite dismutases – a heme enzyme family for use in bioremediation and generation of molecular oxygen. Biotechnology Journal, 2014, 9, 461-473.	3.5	55
42	Manipulating Conserved Heme Cavity Residues of Chlorite Dismutase: Effect on Structure, Redox Chemistry, and Reactivity. Biochemistry, 2014, 53, 77-89.	2.5	32
43	Transiently Produced Hypochlorite Is Responsible for the Irreversible Inhibition of Chlorite Dismutase. Biochemistry, 2014, 53, 3145-3157.	2.5	46
44	Chlorite dismutases and dye-decolorizing peroxidases – similarities and differences within a structural superfamily of heme proteins. New Biotechnology, 2014, 31, S7.	4.4	1
45	<i>Agaricus meleagris</i> pyranose dehydrogenase: Influence of covalent FAD linkage on catalysis and stability. Archives of Biochemistry and Biophysics, 2014, 558, 111-119.	3.0	9
46	Investigation of Ion Binding in Chlorite Dismutases by Means of Molecular Dynamics Simulations. Biochemistry, 2014, 53, 4869-4879.	2.5	17
47	Biochemical characterization of the major N-acetylmuramidase from <i>Lactobacillus buchneri</i> . Microbiology (United Kingdom), 2014, 160, 1807-1819.	1.8	12
48	Mechanism of reaction of chlorite with mammalian heme peroxidases. Journal of Inorganic Biochemistry, 2014, 135, 10-19.	3.5	25
49	Inactivation of human myeloperoxidase by hydrogen peroxide. Archives of Biochemistry and Biophysics, 2013, 539, 51-62.	3.0	56
50	A Stable Bacterial Peroxidase with Novel Halogenating Activity and an Autocatalytically Linked Heme Prosthetic Group. Journal of Biological Chemistry, 2013, 288, 27181-27199.	3.4	17
51	Redox Thermodynamics of High-Spin and Low-Spin Forms of Chlorite Dismutases with Diverse Subunit and Oligomeric Structures. Biochemistry, 2012, 51, 9501-9512.	2.5	30
52	Impact of subunit and oligomeric structure on the thermal and conformational stability of chlorite dismutases. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 1031-1038.	2.3	18
53	Spectroscopic evidence of the effect of hydrogen peroxide excess on the coproheme decarboxylase from actinobacterial <i>Corynebacterium diphtheriae</i> . Journal of Raman Spectroscopy, 0, , .	2.5	4