

Masakazu Sugishima

List of Publications by Year in descending order

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45
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1,199
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393982

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times ranked

1122
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformational Equilibrium of NADPH-Cytochrome P450 Oxidoreductase Is Essential for Heme Oxygenase Reaction. <i>Antioxidants</i> , 2020, 9, 673.	2.2	5
2	Functional diversification of two bilin reductases for light perception and harvesting in unique cyanobacterium <i>Acaryochloris marina</i> MBIC 11017. <i>FEBS Journal</i> , 2020, 287, 4016-4031.	2.2	15
3	Crystal structure of phytychromobilin synthase in complex with biliverdin IX β , a key enzyme in the biosynthesis of phytyochrome. <i>Journal of Biological Chemistry</i> , 2020, 295, 771-782.	1.6	2
4	Crystal structure of phytychromobilin synthase in complex with biliverdin IX α , a key enzyme in the biosynthesis of phytyochrome. <i>Journal of Biological Chemistry</i> , 2020, 295, 771-782.	1.6	6
5	Coupling of Redox and Structural States in Cytochrome P450 Reductase Studied by Molecular Dynamics Simulation. <i>Scientific Reports</i> , 2019, 9, 9341.	1.6	11
6	Crystal structure of a NADPH-cytochrome P450 oxidoreductase (CYPOR) and heme oxygenase 1 fusion protein implies a conformational change in CYPOR upon NADPH / NADP + binding. <i>FEBS Letters</i> , 2019, 593, 868-875.	1.3	9
7	Bilin-metabolizing enzymes: site-specific reductions catalyzed by two different type of enzymes. <i>Current Opinion in Structural Biology</i> , 2019, 59, 73-80.	2.6	11
8	Crystal Growth of a Bilin Reductase PcyA I86D Mutant-Substrate Complex for Neutron Crystallography. <i>Crystal Growth and Design</i> , 2018, 18, 5174-5181.	1.4	2
9	A substrate-bound structure of cyanobacterial biliverdin reductase identifies stacked substrates as critical for activity. <i>Nature Communications</i> , 2017, 8, 14397.	5.8	9
10	Atomic-resolution structure of the phycocyanobilin:ferredoxin oxidoreductase I86D mutant in complex with fully protonated biliverdin. <i>FEBS Letters</i> , 2016, 590, 3425-3434.	1.3	9
11	A microfluidic-based protein crystallization method in 10 micrometer-sized crystallization space. <i>CrystEngComm</i> , 2016, 18, 7722-7727.	1.3	19
12	Distal Regulation of Heme Binding of Heme Oxygenase-1 Mediated by Conformational Fluctuations. <i>Biochemistry</i> , 2015, 54, 340-348.	1.2	14
13	Insights into the Proton Transfer Mechanism of a Bilin Reductase PcyA Following Neutron Crystallography. <i>Journal of the American Chemical Society</i> , 2015, 137, 5452-5460.	6.6	42
14	Backbone assignments of the apo and Zn(II) protoporphyrin IX-bound states of the soluble form of rat heme oxygenase-1. <i>Biomolecular NMR Assignments</i> , 2015, 9, 197-200.	0.4	4
15	Structural basis for the electron transfer from an open form of NADPH-cytochrome P450 oxidoreductase to heme oxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2524-2529.	3.3	70
16	Discrimination between CO and O ₂ in Heme Oxygenase: Comparison of Static Structures and Dynamic Conformation Changes following CO Photolysis. <i>Biochemistry</i> , 2012, 51, 8554-8562.	1.2	15
17	ACCELERATED CELL DEATH 2 suppresses mitochondrial oxidative bursts and modulates cell death in Arabidopsis. <i>Plant Journal</i> , 2012, 69, 589-600.	2.8	47
18	Caveolin-1 Is a Competitive Inhibitor of Heme Oxygenase-1 (HO-1) with Heme: Identification of a Minimum Sequence in Caveolin-1 for Binding to HO-1. <i>Biochemistry</i> , 2011, 50, 6824-6831.	1.2	31

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19	Expression, purification and preliminary X-ray crystallographic analysis of cyanobacterial biliverdin reductase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 313-317.	0.7	4
20	Protein dynamics of heme-heme oxygenase-1 complex following carbon monoxide dissociation. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 910-916.	1.2	7
21	Reduction of oxaporphyrin ring of CO-bound δ -verdoheme complexed with heme oxygenase-1 by NADPH-cytochrome P450 reductase. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 289-296.	1.5	8
22	Structural Insights into Vinyl Reduction Regiospecificity of Phycocyanobilin:Ferredoxin Oxidoreductase (PcyA). <i>Journal of Biological Chemistry</i> , 2010, 285, 1000-1007.	1.6	26
23	Crystal Structures of the Substrate-Bound Forms of Red Chlorophyll Catabolite Reductase: Implications for Site-Specific and Stereospecific Reaction. <i>Journal of Molecular Biology</i> , 2010, 402, 879-891.	2.0	25
24	Crystal structure of rat haem oxygenase-1 in complex with ferrous verdohaem: presence of a hydrogen-bond network on the distal side. <i>Biochemical Journal</i> , 2009, 419, 339-345.	1.7	17
25	Involvement of Metals in Enzymatic and Nonenzymatic Decomposition of C-Terminal δ -Hydroxyglycine to Amide: An Implication for the Catalytic Role of Enzyme-Bound Zinc in the Peptidylamidoglycolate Lyase Reaction. <i>Biochemistry</i> , 2009, 48, 1654-1662.	1.2	9
26	Crystal Structure of Red Chlorophyll Catabolite Reductase: Enlargement of the Ferredoxin-Dependent Bilin Reductase Family. <i>Journal of Molecular Biology</i> , 2009, 389, 376-387.	2.0	34
27	Mass spectrometric identification of lysine residues of heme oxygenase-1 that are involved in its interaction with NADPH-cytochrome P450 reductase. <i>Biochemical and Biophysical Research Communications</i> , 2008, 367, 852-858.	1.0	14
28	X-ray Crystallographic and Biochemical Characterization of the Inhibitory Action of an Imidazole-Dioxolane Compound on Heme Oxygenase. <i>Biochemistry</i> , 2007, 46, 1860-1867.	1.2	29
29	Electrochemical reduction of ferrous δ -verdoheme in complex with heme oxygenase-1. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1394-1399.	1.5	10
30	Alternative cyanide-binding modes to the haem iron in haem oxygenase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 471-474.	0.7	3
31	Induced-fitting and electrostatic potential change of PcyA upon substrate binding demonstrated by the crystal structure of the substrate-free form. <i>FEBS Letters</i> , 2006, 580, 3823-3828.	1.3	21
32	Crystal structure of phycocyanobilin:ferredoxin oxidoreductase in complex with biliverdin IX α , a key enzyme in the biosynthesis of phycocyanobilin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 27-32.	3.3	93
33	Involvement of NADP(H) in the Interaction between Heme Oxygenase-1 and Cytochrome P450 Reductase. <i>Journal of Biological Chemistry</i> , 2005, 280, 729-737.	1.6	39
34	Crystal Structure of Dimeric Heme Oxygenase-2 from <i>Synechocystis</i> sp. PCC 6803 in Complex with Heme. <i>Biochemistry</i> , 2005, 44, 4257-4266.	1.2	45
35	Crystal structure of heme oxygenase-1 from cyanobacterium <i>Synechocystis</i> sp. PCC 6803 in complex with heme. <i>FEBS Journal</i> , 2004, 271, 4517-4525.	0.2	44
36	Structure of photoactive yellow protein (PYP) E46Q mutant at 1.2 \AA resolution suggests how Glu46 controls the spectroscopic and kinetic characteristics of PYP. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 2305-2309.	2.5	15

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37	Hydroxylamine and hydrazine bind directly to the heme iron of the heme heme oxygenase-1 complex. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1223-1228.	1.5	5
38	Crystal Structure of a Novel Zinc-Binding ATP Sulfurylase from <i>Thermus thermophilus</i> HB8,. <i>Biochemistry</i> , 2004, 43, 4111-4118.	1.2	33
39	CO-trapping Site in Heme Oxygenase Revealed by Photolysis of its CO-bound Heme Complex: Mechanism of Escaping from Product Inhibition. <i>Journal of Molecular Biology</i> , 2004, 341, 7-13.	2.0	19
40	Crystal Structures of Ferrous and CO-, CN-, and NO-Bound Forms of Rat Heme Oxygenase-1 (HO-1) in Complex with Heme: Structural Implications for Discrimination between CO and O ₂ in HO-1. <i>Biochemistry</i> , 2003, 42, 9898-9905.	1.2	61
41	Crystal Structure of Rat Heme Oxygenase-1 in Complex with Biliverdin-Iron Chelate. <i>Journal of Biological Chemistry</i> , 2003, 278, 32352-32358.	1.6	52
42	Crystal Structure of Rat Heme Oxygenase-1 in Complex with Heme Bound to Azide. <i>Journal of Biological Chemistry</i> , 2002, 277, 45086-45090.	1.6	63
43	Crystal Structure of Rat Apo-Heme Oxygenase-1 (HO-1): Mechanism of Heme Binding in HO-1 Inferred from Structural Comparison of the Apo and Heme Complex Forms. <i>Biochemistry</i> , 2002, 41, 7293-7300.	1.2	63
44	Structure and reaction mechanism of heme oxygenase-1. <i>International Congress Series</i> , 2002, 1233, 177-183.	0.2	0
45	Crystal structure of rat heme oxygenase-1 in complex with heme. <i>FEBS Letters</i> , 2000, 471, 61-66.	1.3	139