Masakazu Sugishima

List of Publications by Year
in descending order

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45 papers	1,199 citations	393982 19 h-index	377514 34 g-index
45 all docs	45 docs citations	45 times ranked	1122 citing authors

#	Article	IF	Citations
1	Crystal structure of rat heme oxygenase-1 in complex with heme. FEBS Letters, 2000, 471, 61-66.	1.3	139
2	Crystal structure of phycocyanobilin:ferredoxin oxidoreductase in complex with biliverdin IXÂ, a key enzyme in the biosynthesis of phycocyanobilin. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 27-32.	3.3	93
3	Structural basis for the electron transfer from an open form of NADPH-cytochrome P450 oxidoreductase to heme oxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2524-2529.	3.3	70
4	Crystal Structure of Rat Heme Oxygenase-1 in Complex with Heme Bound to Azide. Journal of Biological Chemistry, 2002, 277, 45086-45090.	1.6	63
5	Crystal Structure of Rat Apo-Heme Oxygenase-1 (HO-1):Â Mechanism of Heme Binding in HO-1 Inferred from Structural Comparison of the Apo and Heme Complex Formsâ€,â€¡. Biochemistry, 2002, 41, 7293-7300.	1.2	63
6	Crystal Structures of Ferrous and CO-, CN–, and NO-Bound Forms of Rat Heme Oxygenase-1 (HO-1) in Complex with Heme:Â Structural Implications for Discrimination between CO and O2in HO-1â€,â€¡. Biochemistry, 2003, 42, 9898-9905.	1.2	61
7	Crystal Structure of Rat Heme Oxygenase-1 in Complex with Biliverdin-Iron Chelate. Journal of Biological Chemistry, 2003, 278, 32352-32358.	1.6	52
8	ACCELERATED CELL DEATH 2 suppresses mitochondrial oxidative bursts and modulates cell death in Arabidopsis. Plant Journal, 2012, 69, 589-600.	2.8	47
9	Crystal Structure of Dimeric Heme Oxygenase-2 fromSynechocystissp. PCC 6803 in Complex with Hemeâ€,â€¡. Biochemistry, 2005, 44, 4257-4266.	1.2	45
10	Crystal structure of heme oxygenase-1 from cyanobacterium Synechocystis sp. PCC 6803 in complex with heme. FEBS Journal, 2004, 271, 4517-4525.	0.2	44
11	Insights into the Proton Transfer Mechanism of a Bilin Reductase PcyA Following Neutron Crystallography. Journal of the American Chemical Society, 2015, 137, 5452-5460.	6.6	42
12	Involvement of NADP(H) in the Interaction between Heme Oxygenase-1 and Cytochrome P450 Reductase. Journal of Biological Chemistry, 2005, 280, 729-737.	1.6	39
13	Crystal Structure of Red Chlorophyll Catabolite Reductase: Enlargement of the Ferredoxin-Dependent Bilin Reductase Family. Journal of Molecular Biology, 2009, 389, 376-387.	2.0	34
14	Crystal Structure of a Novel Zinc-Binding ATP Sulfurylase from Thermus thermophilus HB8,. Biochemistry, 2004, 43, 4111-4118.	1.2	33
15	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. Biochemistry, 2011, 50, 6824-6831.	1.2	31
16	X-ray Crystallographic and Biochemical Characterization of the Inhibitory Action of an Imidazoleâ^'Dioxolane Compound on Heme Oxygenase,. Biochemistry, 2007, 46, 1860-1867.	1.2	29
17	Structural Insights into Vinyl Reduction Regiospecificity of Phycocyanobilin:Ferredoxin Oxidoreductase (PcyA). Journal of Biological Chemistry, 2010, 285, 1000-1007.	1.6	26
18	Crystal Structures of the Substrate-Bound Forms of Red Chlorophyll Catabolite Reductase: Implications for Site-Specific and Stereospecific Reaction. Journal of Molecular Biology, 2010, 402, 879-891.	2.0	25

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19	Induced-fitting and electrostatic potential change of PcyA upon substrate binding demonstrated by the crystal structure of the substrate-free form. FEBS Letters, 2006, 580, 3823-3828.	1.3	21
20	CO-trapping Site in Heme Oxygenase Revealed by Photolysis of its CO-bound Heme Complex: Mechanism of Escaping from Product Inhibition. Journal of Molecular Biology, 2004, 341, 7-13.	2.0	19
21	A microfluidic-based protein crystallization method in 10 micrometer-sized crystallization space. CrystEngComm, 2016, 18, 7722-7727.	1.3	19
22	Crystal structure of rat haem oxygenase-1 in complex with ferrous verdohaem: presence of a hydrogen-bond network on the distal side. Biochemical Journal, 2009, 419, 339-345.	1.7	17
23	Structure of photoactive yellow protein (PYP) E46Q mutant at 1.2â€…Ã… resolution suggests how Glu46 controls the spectroscopic and kinetic characteristics of PYP. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 2305-2309.	2.5	15
24	Discrimination between CO and O₂ in Heme Oxygenase: Comparison of Static Structures and Dynamic Conformation Changes following CO Photolysis. Biochemistry, 2012, 51, 8554-8562.	1.2	15
25	Functional diversification of two bilin reductases for light perception and harvesting in unique cyanobacterium AcaryochlorisÂmarina MBIC 11017. FEBS Journal, 2020, 287, 4016-4031.	2.2	15
26	Mass spectrometric identification of lysine residues of heme oxygenase-1 that are involved in its interaction with NADPH-cytochrome P450 reductase. Biochemical and Biophysical Research Communications, 2008, 367, 852-858.	1.0	14
27	Distal Regulation of Heme Binding of Heme Oxygenase-1 Mediated by Conformational Fluctuations. Biochemistry, 2015, 54, 340-348.	1.2	14
28	Coupling of Redox and Structural States in Cytochrome P450 Reductase Studied by Molecular Dynamics Simulation. Scientific Reports, 2019, 9, 9341.	1.6	11
29	Bilin-metabolizing enzymes: site-specific reductions catalyzed by two different type of enzymes. Current Opinion in Structural Biology, 2019, 59, 73-80.	2.6	11
30	Electrochemical reduction of ferrous Î±-verdoheme in complex with heme oxygenase-1. Journal of Inorganic Biochemistry, 2007, 101, 1394-1399.	1.5	10
31	Involvement of Metals in Enzymatic and Nonenzymatic Decomposition of C-Terminal Î±-Hydroxyglycine to Amide: An Implication for the Catalytic Role of Enzyme-Bound Zinc in the Peptidylamidoglycolate Lyase Reaction. Biochemistry, 2009, 48, 1654-1662.	1.2	9
32	Atomicâ€resolution structure of the phycocyanobilin:ferredoxin oxidoreductase I86D mutant in complex with fully protonated biliverdin. FEBS Letters, 2016, 590, 3425-3434.	1.3	9
33	A substrate-bound structure of cyanobacterial biliverdin reductase identifies stacked substrates as critical for activity. Nature Communications, 2017, 8, 14397.	5.8	9
34	Crystal structure of a NADPH â€cytochrome P450 oxidoreductase (CYPOR) and heme oxygenase 1 fusion protein implies a conformational change in CYPOR upon NADPH / NADP + binding. FEBS Letters, 2019, 593, 868-875.	1.3	9
35	Reduction of oxaporphyrin ring of CO-bound Î±-verdoheme complexed with heme oxygenase-1 by NADPH-cytochrome P450 reductase. Journal of Inorganic Biochemistry, 2011, 105, 289-296.	1.5	8
36	Protein dynamics of hemeâ€“heme oxygenaseâ€1 complex following carbon monoxide dissociation. Journal of Raman Spectroscopy, 2011, 42, 910-916.	1.2	7

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37	Crystal structure of phytochromobilin synthase in complex with biliverdin IXÎ±, a key enzyme in the biosynthesis of phytochrome. Journal of Biological Chemistry, 2020, 295, 771-782.	1.6	6
38	Hydroxylamine and hydrazine bind directly to the heme iron of the hemeâ€“heme oxygenase-1 complex. Journal of Inorganic Biochemistry, 2004, 98, 1223-1228.	1.5	5
39	Conformational Equilibrium of NADPHâ€“Cytochrome P450 Oxidoreductase Is Essential for Heme Oxygenase Reaction. Antioxidants, 2020, 9, 673.	2.2	5
40	Expression, purification and preliminary X-ray crystallographic analysis of cyanobacterial biliverdin reductase. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 313-317.	0.7	4
41	Backbone assignments of the apo and Zn(II) protoporphyrin IX-bound states of the soluble form of rat heme oxygenase-1. Biomolecular NMR Assignments, 2015, 9, 197-200.	0.4	4
42	Alternative cyanide-binding modes to the haem iron in haem oxygenase. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 471-474.	0.7	3
43	Crystal Growth of a Bilin Reductase PcyA I86D Mutantâ€“Substrate Complex for Neutron Crystallography. Crystal Growth and Design, 2018, 18, 5174-5181.	1.4	2
44	Crystal structure of phytochromobilin synthase in complex with biliverdin IXÎ±, a key enzyme in the biosynthesis of phytochrome. Journal of Biological Chemistry, 2020, 295, 771-782.	1.6	2
45	Structure and reaction mechanism of heme oxygenase-1. International Congress Series, 2002, 1233, 177-183.	0.2	0