Hideaki Ogata

List of Publications by Year
in descending order

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58 papers	4,734 citations	257357 24 h-index	168321 53 g-index
62 all docs	62 docs citations	62 times ranked	3496 citing authors

#	Article	IF	Citations
1	Hydrogenases. Chemical Reviews, 2014, 114, 4081-4148.	23.0	1,653
2	Removal of the bridging ligand atom at the Niâ€“Fe active site of [NiFe] hydrogenase upon reduction with H2, as revealed by X-ray structure analysis at 1.4 Ã... resolution. Structure, 1999, 7, 549-556.	1.6	333
3	Hydrogens detected by subatomic resolution protein crystallography in a [NiFe] hydrogenase. Nature, 2015, 520, 571-574.	13.7	267
4	Activation Process of [NiFe] Hydrogenase Elucidated by High-Resolution X-Ray Analyses: Conversion of the Ready to the Unready State. Structure, 2005, 13, 1635-1642.	1.6	248
5	Structural Studies of the Carbon Monoxide Complex of [NiFe]hydrogenase from Desulfovibrio vulgaris Miyazaki F:â€‰ Suggestion for the Initial Activation Site for Dihydrogen. Journal of the American Chemical Society, 2002, 124, 11628-11635.	6.6	235
6	[NiFe] hydrogenases: A common active site for hydrogen metabolism under diverse conditions. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 986-1002.	0.5	219
7	Single Crystal EPR Studies of the Reduced Active Site of [NiFe] Hydrogenase fromDesulfovibrio vulgarisMiyazaki F. Journal of the American Chemical Society, 2003, 125, 83-93.	6.6	196
8	[NiFe] hydrogenases: structural and spectroscopic studies of the reaction mechanism. Dalton Transactions, 2009, , 7577.	1.6	179
9	The Crystal Structure of the [NiFe] Hydrogenase from the Photosynthetic Bacterium Allochromatium vinosum: Characterization of the Oxidized Enzyme (Ni-A State). Journal of Molecular Biology, 2010, 402, 428-444.	2.0	122
10	Intermediates in the Catalytic Cycle of [NiFe] Hydrogenase: Functional Spectroscopy of the Active Site. ChemPhysChem, 2010, 11, 1127-1140.	1.0	104
11	A single-crystal ENDOR and density functional theory study of the oxidized states of the [NiFe] hydrogenase from Desulfovibrio vulgaris Miyazaki F. Journal of Biological Inorganic Chemistry, 2006, 11, 41-51.	1.1	103
12	Hydride bridge in [NiFe]-hydrogenase observed by nuclear resonance vibrational spectroscopy. Nature Communications, 2015, 6, 7890.	5.8	96
13	A Tyrosylâ^'Dimanganese Coupled Spin System is the Native Metalloradical Cofactor of the R2F Subunit of the Ribonucleotide Reductase of Corynebacterium ammoniagenes. Journal of the American Chemical Society, 2010, 132, 11197-11213.	6.6	93
14	Structure and function of [NiFe] hydrogenases. Journal of Biochemistry, 2016, 160, 251-258.	0.9	92
15	Inhibition of the [NiFe] hydrogenase from Desulfovibrio vulgaris Miyazaki F by carbon monoxide: An FTIR and EPR spectroscopic study. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 304-313.	0.5	76
16	Redox Interaction of Cytochromec3with [NiFe] Hydrogenase fromDesulfovibrio vulgarisMiyazaki Fâ€. Biochemistry, 2006, 45, 1653-1662.	1.2	72
17	Second and Outer Coordination Sphere Effects in Nitrogenase, Hydrogenase, Formate Dehydrogenase, and CO Dehydrogenase. Chemical Reviews, 2022, 122, 11900-11973.	23.0	70
18	Observation of the Feï£¿CN and Feï£¿CO Vibrations in the Active Site of [NiFe] Hydrogenase by Nuclear Resonance Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 724-728.	7.2	60

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19	Unique Spectroscopic Properties of the H-Cluster in a Putative Sensory [FeFe] Hydrogenase. Journal of the American Chemical Society, 2018, 140, 1057-1068.	6.6	53
20	Formation of the Complex of Nitrite with the Ferriheme b Î²-Barrel Proteins Nitrophorin 4 and Nitrophorin 7,. Biochemistry, 2010, 49, 5841-5851.	1.2	42
21	Probing intermediates in the activation cycle of [NiFe] hydrogenase by infrared spectroscopy: the Ni-SIr state and its light sensitivity. Journal of Biological Inorganic Chemistry, 2009, 14, 1227-1241.	1.1	35
22	Role of APS reductase in biogeochemical sulfur isotope fractionation. Nature Communications, 2019, 10, 44.	5.8	33
23	Role of the Aromatic Ring of Tyr43 in Tetraheme Cytochrome c3 from Desulfovibrio vulgaris Miyazaki F. Biophysical Journal, 2003, 85, 3367-3374.	0.2	28
24	Spectroscopic and biochemical insight into an electron-bifurcating [FeFe] hydrogenase. Journal of Biological Inorganic Chemistry, 2020, 25, 135-149.	1.1	28
25	A strenuous experimental journey searching forÂspectroscopic evidence of a bridging nickelâ€“ironâ€“hydride in [NiFe] hydrogenase. Journal of Synchrotron Radiation, 2015, 22, 1334-1344.	1.0	23
26	Importance of Hydrogen Bonding in Fine Tuning the [2Fe-2S] Cluster Redox Potential of HydC from Thermotoga maritima. Biochemistry, 2016, 55, 4344-4355.	1.2	23
27	Structural differences between the active sites of the Ni-A and Ni-B states of the [NiFe] hydrogenase: an approach by quantum chemistry and single crystal ENDOR spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 16204-16212.	1.3	21
28	Heterogeneous Kinetics of the Carbon Monoxide Association and Dissociation Reaction to Nitrophorin 4 and 7 Coincide with Structural Heterogeneity of the Gate-Loop. Journal of the American Chemical Society, 2012, 134, 9986-9998.	6.6	19
29	A cryogenic receiver for EPR. Journal of Magnetic Resonance, 2013, 237, 79-84.	1.2	18
30	Solvent water interactions within the active site of the membrane type I matrix metalloproteinase. Physical Chemistry Chemical Physics, 2017, 19, 30316-30331.	1.3	16
31	Crystallization and preliminary X-ray crystallographic studies of the axin DIX domain. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 529-531.	0.7	14
32	Guanidineâ€Ferroheme Coordination in the Mutant Protein Nitrophorin 4(L130R). Angewandte Chemie - International Edition, 2012, 51, 4470-4473.	7.2	13
33	Structure and dynamics of the membrane attaching nitric oxide transporter nitrophorin 7. F1000Research, 0, 4, 45.	0.8	13
34	Insertion of an H-Bonding Residue into the Distal Pocket of the Ferriheme Protein Nitrophorin 4: Effect on Nitriteï£¿Iron Coordination and Nitrite Disproportionation. Chemistry and Biodiversity, 2012, 9, 1761-1775.	1.0	11
35	Complexes of ferriheme nitrophorin 4 with low-molecular weight thiol(ate)s occurring in blood plasma. Journal of Inorganic Biochemistry, 2013, 122, 38-48.	1.5	11
36	Structural Basis of the Function of [NiFe]-hydrogenases. Chemistry Letters, 2020, 49, 164-173.	0.7	11

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37	Crystallization and preliminary X-ray crystallographic analysis of the catalytic domain of membrane type 1 matrix metalloproteinase. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 232-235.	0.4	10
38	Elucidation of the heme active site electronic structure affecting the unprecedented nitrite dismutase activity of the ferriheme b proteins, the nitrophorins. Chemical Science, 2016, 7, 5332-5340.	3.7	10
39	Cloning and expression of the enolase gene from Desulfovibrio vulgaris (Miyazaki F). Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2004, 1676, 172-181.	2.4	9
40	Purification, crystallization and preliminary X-ray analysis of the membrane-bound [NiFe] hydrogenase fromAllochromatium vinosum. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 719-722.	0.7	8
41	Crystallization and preliminary X-ray analysis of the LOV domain of the blue-light receptor YtvA fromBacillus amyloliquefaciensFZB42. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 853-855.	0.7	7
42	Structure and dynamics of the membrane attaching nitric oxide transporter nitrophorin 7. F1000Research, 2015, 4, 45.	0.8	7
43	Crystallization and preliminary X-ray crystallographic analysis of the membrane-binding haemprotein nitrophorin 7 fromRhodnius prolixus. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 37-40.	0.7	5
44	Protein Crystallography Using Freeâ€Electron Lasers: Water Oxidation in Photosynthesis. Angewandte Chemie - International Edition, 2014, 53, 13007-13008.	7.2	5
45	Nitric oxide heme interactions in nitrophorin 7 investigated by nuclear inelastic scattering. Hyperfine Interactions, 2014, 226, 439-443.	0.2	5
46	Crystallization and preliminary X-ray analysis of two inhibitor complexes of the catalytic domain of death-associated protein kinase. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 764-766.	2.5	4
47	Crystallization and preliminary X-ray analysis of the small subunit (R2F) of native ribonucleotide reductase fromCorynebacterium ammoniagenes. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 878-880.	0.7	4
48	Electrostatic Tuning of the Ligand Binding Mechanism by Glu27 in Nitrophorin 7. Scientific Reports, 2018, 8, 10855.	1.6	4
49	Expression, Purification, and Solid-State NMR Characterization of the Membrane Binding Heme Protein Nitrophorin 7 in Two Electronic Spin States. Biochemistry, 2013, 52, 7031-7040.	1.2	3
50	Roles of charged residues in pH-dependent redox properties of cytochrome c3 from Desulfovibrio vulgaris Miyazaki F. Biophysics (Nagoya-shi, Japan), 2006, 2, 45-56.	0.4	3
51	Purification, crystallization and preliminary X-ray analysis of adenylylsulfate reductase fromDesulfovibrio vulgarisMiyazaki F. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 1010-1012.	0.7	2
52	Bioenergetics Theory and Components | Hydrogenases Structure and Function. , 2021, , 66-73.		2
53	Purification, crystallization and preliminary X-ray analysis of the dissimilatory sulfite reductase fromDesulfovibrio vulgarisMiyazaki F. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 1470-1472.	0.7	0
54	P53. Nitric Oxide - Biology and Chemistry, 2013, 31, S36.	1.2	0

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55	High Resolution Crystal Structure Analysis of [NiFe] Hydrogenase. Nihon Kessho Gakkaishi, 2015, 57, 344-349.	0.0	0
56	Structural & Chemical Study of Metalloenzymes: Reaction Mechanism of Hydrogenases. Nihon Kessho Gakkaishi, 2021, 63, 97-104.	0.0	0
57	Structural Studies of Matrix Metalloproteinase by X-Ray Diffraction. Methods in Molecular Biology, 2017, 1579, 49-60.	0.4	0
58	Structural and spectroscopic characterization of CO inhibition of [NiFe]-hydrogenase from Citrobacter sp. S-77. Acta Crystallographica Section F, Structural Biology Communications, 2022, 78, 66-74.	0.4	0