

# 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  
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62  
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62  
docs citations

62  
times ranked

3496  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and spectroscopic characterization of CO inhibition of [NiFe]-hydrogenase from <i>Citrobacter</i> sp. S-77. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2022, 78, 66-74.	0.4	0
2	Second and Outer Coordination Sphere Effects in Nitrogenase, Hydrogenase, Formate Dehydrogenase, and CO Dehydrogenase. <i>Chemical Reviews</i> , 2022, 122, 11900-11973.	23.0	70
3	Bioenergetics Theory and Components   Hydrogenases Structure and Function. , 2021, , 66-73.		2
4	Structural & Chemical Study of Metalloenzymes: Reaction Mechanism of Hydrogenases. <i>Nihon Kessho Gakkaishi</i> , 2021, 63, 97-104.	0.0	0
5	Spectroscopic and biochemical insight into an electron-bifurcating [FeFe] hydrogenase. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 135-149.	1.1	28
6	Structural Basis of the Function of [NiFe]-hydrogenases. <i>Chemistry Letters</i> , 2020, 49, 164-173.	0.7	11
7	Role of APS reductase in biogeochemical sulfur isotope fractionation. <i>Nature Communications</i> , 2019, 10, 44.	5.8	33
8	Unique Spectroscopic Properties of the H-Cluster in a Putative Sensory [FeFe] Hydrogenase. <i>Journal of the American Chemical Society</i> , 2018, 140, 1057-1068.	6.6	53
9	Electrostatic Tuning of the Ligand Binding Mechanism by Glu27 in Nitrophorin 7. <i>Scientific Reports</i> , 2018, 8, 10855.	1.6	4
10	Solvent water interactions within the active site of the membrane type I matrix metalloproteinase. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30316-30331.	1.3	16
11	Structural Studies of Matrix Metalloproteinase by X-Ray Diffraction. <i>Methods in Molecular Biology</i> , 2017, 1579, 49-60.	0.4	0
12	Structure and function of [NiFe] hydrogenases. <i>Journal of Biochemistry</i> , 2016, 160, 251-258.	0.9	92
13	Importance of Hydrogen Bonding in Fine Tuning the [2Fe-2S] Cluster Redox Potential of HydC from <i>Thermotoga maritima</i> . <i>Biochemistry</i> , 2016, 55, 4344-4355.	1.2	23
14	Elucidation of the heme active site electronic structure affecting the unprecedented nitrite dismutase activity of the ferriheme b proteins, the nitrophorins. <i>Chemical Science</i> , 2016, 7, 5332-5340.	3.7	10
15	A strenuous experimental journey searching for spectroscopic evidence of a bridging nickel-iron-hydride in [NiFe] hydrogenase. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1334-1344.	1.0	23
16	High Resolution Crystal Structure Analysis of [NiFe] Hydrogenase. <i>Nihon Kessho Gakkaishi</i> , 2015, 57, 344-349.	0.0	0
17	Hydrogens detected by subatomic resolution protein crystallography in a [NiFe] hydrogenase. <i>Nature</i> , 2015, 520, 571-574.	13.7	267
18	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. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16204-16212.	1.3	21

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19	Hydride bridge in [NiFe]-hydrogenase observed by nuclear resonance vibrational spectroscopy. <i>Nature Communications</i> , 2015, 6, 7890.	5.8	96
20	Structure and dynamics of the membrane attaching nitric oxide transporter nitrophorin 7. <i>PLoS ONE</i> , 2015, 4, 45.	0.8	7
21	Protein Crystallography Using Free-Electron Lasers: Water Oxidation in Photosynthesis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13007-13008.	7.2	5
22	Crystallization and preliminary X-ray crystallographic analysis of the catalytic domain of membrane type 1 matrix metalloproteinase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 232-235.	0.4	10
23	Nitric oxide heme interactions in nitrophorin 7 investigated by nuclear inelastic scattering. <i>Hyperfine Interactions</i> , 2014, 226, 439-443.	0.2	5
24	Hydrogenases. <i>Chemical Reviews</i> , 2014, 114, 4081-4148.	23.0	1,653
25	[NiFe] hydrogenases: A common active site for hydrogen metabolism under diverse conditions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 986-1002.	0.5	219
26	Expression, Purification, and Solid-State NMR Characterization of the Membrane Binding Heme Protein Nitrophorin 7 in Two Electronic Spin States. <i>Biochemistry</i> , 2013, 52, 7031-7040.	1.2	3
27	Observation of the Fe-C≡N and Fe-C≡O Vibrations in the Active Site of [NiFe] Hydrogenase by Nuclear Resonance Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 724-728.	7.2	60
28	A cryogenic receiver for EPR. <i>Journal of Magnetic Resonance</i> , 2013, 237, 79-84.	1.2	18
29	P53. <i>Nitric Oxide - Biology and Chemistry</i> , 2013, 31, S36.	1.2	0
30	Complexes of ferriheme nitrophorin 4 with low-molecular weight thiol(ate)s occurring in blood plasma. <i>Journal of Inorganic Biochemistry</i> , 2013, 122, 38-48.	1.5	11
31	Heterogeneous Kinetics of the Carbon Monoxide Association and Dissociation Reaction to Nitrophorin 4 and 7 Coincide with Structural Heterogeneity of the Gate-Loop. <i>Journal of the American Chemical Society</i> , 2012, 134, 9986-9998.	6.6	19
32	Insertion of an H-Bonding Residue into the Distal Pocket of the Ferriheme Protein Nitrophorin 4: Effect on Nitrite-Dependent Iron Coordination and Nitrite Disproportionation. <i>Chemistry and Biodiversity</i> , 2012, 9, 1761-1775.	1.0	11
33	Crystallization and preliminary X-ray crystallographic analysis of the membrane-binding haemprotein nitrophorin 7 from <i>Rhodnius prolixus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 37-40.	0.7	5
34	Guanidine-Dependent Ferriheme Coordination in the Mutant Protein Nitrophorin 4(L130R). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4470-4473.	7.2	13
35	The Crystal Structure of the [NiFe] Hydrogenase from the Photosynthetic Bacterium <i>Allochromatium vinosum</i> : Characterization of the Oxidized Enzyme (Ni-A State). <i>Journal of Molecular Biology</i> , 2010, 402, 428-444.	2.0	122
36	Inhibition of the [NiFe] hydrogenase from <i>Desulfovibrio vulgaris</i> Miyazaki F by carbon monoxide: An FTIR and EPR spectroscopic study. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 304-313.	0.5	76

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37	Intermediates in the Catalytic Cycle of [NiFe] Hydrogenase: Functional Spectroscopy of the Active Site. <i>ChemPhysChem</i> , 2010, 11, 1127-1140.	1.0	104
38	Purification, crystallization and preliminary X-ray analysis of the dissimilatory sulfite reductase from <i>Desulfovibrio vulgaris</i> Miyazaki F. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 1470-1472.	0.7	0
39	Formation of the Complex of Nitrite with the Ferriheme $\hat{1}^2$ -Barrel Proteins Nitrophorin 4 and Nitrophorin 7. <i>Biochemistry</i> , 2010, 49, 5841-5851.	1.2	42
40	A Tyrosyl $\hat{1}^2$ -Dimanganese Coupled Spin System is the Native Metalloradical Cofactor of the R2F Subunit of the Ribonucleotide Reductase of <i>Corynebacterium ammoniagenes</i> . <i>Journal of the American Chemical Society</i> , 2010, 132, 11197-11213.	6.6	93
41	Probing intermediates in the activation cycle of [NiFe] hydrogenase by infrared spectroscopy: the Ni-SIr state and its light sensitivity. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1227-1241.	1.1	35
42	Crystallization and preliminary X-ray analysis of the LOV domain of the blue-light receptor YtvA from <i>Bacillus amyloliquefaciens</i> FZB42. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 853-855.	0.7	7
43	Crystallization and preliminary X-ray analysis of the small subunit (R2F) of native ribonucleotide reductase from <i>Corynebacterium ammoniagenes</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 878-880.	0.7	4
44	[NiFe] hydrogenases: structural and spectroscopic studies of the reaction mechanism. <i>Dalton Transactions</i> , 2009, , 7577.	1.6	179
45	Purification, crystallization and preliminary X-ray analysis of the membrane-bound [NiFe] hydrogenase from <i>Allochromatium vinosum</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 719-722.	0.7	8
46	Purification, crystallization and preliminary X-ray analysis of adenylylsulfate reductase from <i>Desulfovibrio vulgaris</i> Miyazaki F. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 1010-1012.	0.7	2
47	Crystallization and preliminary X-ray crystallographic studies of the axin DIX domain. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 529-531.	0.7	14
48	Redox Interaction of Cytochrome c3 with [NiFe] Hydrogenase from <i>Desulfovibrio vulgaris</i> Miyazaki F. <i>Biochemistry</i> , 2006, 45, 1653-1662.	1.2	72
49	A single-crystal ENDOR and density functional theory study of the oxidized states of the [NiFe] hydrogenase from <i>Desulfovibrio vulgaris</i> Miyazaki F. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 41-51.	1.1	103
50	Roles of charged residues in pH-dependent redox properties of cytochrome c3 from <i>Desulfovibrio vulgaris</i> Miyazaki F. <i>Biophysics (Nagoya-shi, Japan)</i> , 2006, 2, 45-56.	0.4	3
51	Activation Process of [NiFe] Hydrogenase Elucidated by High-Resolution X-Ray Analyses: Conversion of the Ready to the Unready State. <i>Structure</i> , 2005, 13, 1635-1642.	1.6	248
52	Cloning and expression of the enolase gene from <i>Desulfovibrio vulgaris</i> (Miyazaki F). <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2004, 1676, 172-181.	2.4	9
53	Crystallization and preliminary X-ray analysis of two inhibitor complexes of the catalytic domain of death-associated protein kinase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 764-766.	2.5	4
54	Single Crystal EPR Studies of the Reduced Active Site of [NiFe] Hydrogenase from <i>Desulfovibrio vulgaris</i> Miyazaki F. <i>Journal of the American Chemical Society</i> , 2003, 125, 83-93.	6.6	196

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55	Role of the Aromatic Ring of Tyr43 in Tetraheme Cytochrome c3 from <i>Desulfovibrio vulgaris</i> Miyazaki F. <i>Biophysical Journal</i> , 2003, 85, 3367-3374.	0.2	28
56	Structural Studies of the Carbon Monoxide Complex of [NiFe]hydrogenase from <i>Desulfovibrio vulgaris</i> Miyazaki F: Suggestion for the Initial Activation Site for Dihydrogen. <i>Journal of the American Chemical Society</i> , 2002, 124, 11628-11635.	6.6	235
57	Removal of the bridging ligand atom at the Ni-Fe active site of [NiFe] hydrogenase upon reduction with H <sub>2</sub> , as revealed by X-ray structure analysis at 1.4 Å resolution. <i>Structure</i> , 1999, 7, 549-556.	1.6	333
58	Structure and dynamics of the membrane attaching nitric oxide transporter nitrophorin 7. <i>F1000Research</i> , 0, 4, 45.	0.8	13