Yasuhiko Yamamoto

List of Publications by Year
in descending order

94 papers	1,537 citations	279798 23 h-index	377865 34 g-index
94 all docs	94 docs citations	94 times ranked	940 citing authors

#	Article	IF	Citations
1	Nature of a H₂O Molecule Confined in the Hydrophobic Interface between the Heme and G-Quartet Planes in a Hemeâ€“DNA Complex. Biochemistry, 2022, 61, 523-534.	2.5	5
2	Structural and functional characterization of complexes between heme and dimeric parallel G-quadruplex DNAs. Journal of Inorganic Biochemistry, 2021, 216, 111336.	3.5	12
3	Molecular Recognition of G-quadruplex DNA by Pheophorbide a. Chemistry Letters, 2021, 50, 1278-1281.	1.3	3
4	Effects of Heme Electronic Structure and Local Heme Environment on Catalytic Activity of a Peroxidase-Mimicking Hemeâ€“DNAzyme. Inorganic Chemistry, 2021, 60, 11206-11213.	4.0	9
5	A cationic copolymer as a cocatalyst for a peroxidase-mimicking heme-DNAzyme. Biomaterials Science, 2021, 9, 6142-6152.	5.4	5
6	Effect of the Electron Density of the Heme Fe Atom on the Nature of Feâ€“O2 Bonding in Oxy Myoglobin. Inorganic Chemistry, 2021, 60, 1021-1027.	4.0	3
7	Monitoring the morphological evolution of giant vesicles by azo dye-based sum-frequency generation (SFG) microscopy. Colloids and Surfaces B: Biointerfaces, 2020, 186, 110716.	5.0	4
8	Stepwise binding of a cationic phthalocyanine derivative to an all parallel-stranded tetrameric G-quadruplex DNA. Journal of Inorganic Biochemistry, 2020, 213, 111270.	3.5	7
9	Characterization of Structure and Catalytic Activity of a Complex between Heme and an All Parallel-Stranded Tetrameric G-Quadruplex Formed from DNA/RNA Chimera Sequence d(TTA)r(GGG)dT. Bulletin of the Chemical Society of Japan, 2020, 93, 621-629.	3.2	11
10	Specific Binding of an Anionic Phthalocyanine Derivative to G-Quadruplex DNAs. Chemistry Letters, 2020, 49, 530-533.	1.3	9
11	Multimodal Multiphoton Imaging of the Lipid Bilayer by Dye-Based Sum-Frequency Generation and Coherent Anti-Stokes Raman Scattering. Analytical Chemistry, 2020, 92, 5656-5660.	6.5	9
12	Identification of Intermediates in Peroxidase Catalytic Cycle of a DNAzyme Possessing Heme. Bulletin of the Chemical Society of Japan, 2019, 92, 1729-1736.	3.2	17
13	A Nuclear Resonance Vibrational Spectroscopic Study of Oxy Myoglobins Reconstituted with Chemically Modified Heme Cofactors: Insights into the Feâ€“O₂ Bonding and Internal Dynamics of the Protein. Biochemistry, 2018, 57, 6649-6652.	2.5	7
14	Structures and Catalytic Activities of Complexes between Heme and All Parallel-Stranded Monomeric G-Quadruplex DNAs. Biochemistry, 2018, 57, 5938-5948.	2.5	26
15	Synergistic Effect of Distal Polar Interactions in Myoglobin and Their Structural Consequences. Inorganic Chemistry, 2018, 57, 14269-14279.	4.0	5
16	Characterization of Catalytic Activities and Heme Coordination Structures of Hemeâ€“DNA Complexes Composed of Some Chemically Modified Hemes and an All Parallel-Stranded Tetrameric G-Quadruplex DNA Formed from d(TTAGGG). Biochemistry, 2018, 57, 5930-5937.	2.5	28
17	Characterization of the interaction between heme and a parallel G-quadruplex DNA formed from d(TTGAGG). Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1264-1270.	2.4	15
18	Characterization of Heme Orientational Disorder in a Myoglobin Reconstituted with a Trifluoromethyl-Group-Substituted Heme Cofactor. Biochemistry, 2017, 56, 4500-4508.	2.5	8

#	Article	IF	Citations
19	Characterization of Ground State Electron Configurations of High-Spin Quintet Ferrous Heme Iron in Deoxy Myoglobin Reconstituted with Trifluoromethyl Group-Substituted Heme Cofactors. Inorganic Chemistry, 2016, 55, 12128-12136.	4.0	5
20	Heme Orientation of Cavity Mutant Hemoglobins (His F8Âât'ÂGly) in Either Îł or Î² Subunits: Circular Dichroism, ¹H NMR, and Resonance Raman Studies. Chirality, 2016, 28, 585-592.	2.6	3
21	Effects of Heme Electronic Structure and Distal Polar Interaction on Functional and Vibrational Properties of Myoglobin. Inorganic Chemistry, 2016, 55, 1613-1622.	4.0	8
22	NMR Detection and Characterization of I-quartets in Parallel DNA Quadruplexes. Chemistry Letters, 2015, 44, 1107-1109.	1.3	8
23	Characterization of the Interaction between Heme and a Parallel G-Quadruplex DNA Formed from d(TTAGGGT). Bulletin of the Chemical Society of Japan, 2015, 88, 644-652.	3.2	34
24	Novel Functions of Ï€-Electron Systems in a Heme-DNA Complex. , 2015, , 731-750.		0
25	Characterization of Hemeâ€“DNA Complexes Composed of Some Chemically Modified Hemes and Parallel G-Quadruplex DNAs. Biochemistry, 2015, 54, 7168-7177.	2.5	32
26	Structural characterization of imidazole adducts of heme-DNA complexes. Journal of Porphyrins and Phthalocyanines, 2014, 18, 741-751.	0.8	12
27	Electronic Control of Discrimination between O2 and CO in Myoglobin Lacking the Distal Histidine Residue. Inorganic Chemistry, 2014, 53, 1091-1099.	4.0	13
28	Electronic Control of Ligand-Binding Preference of a Myoglobin Mutant. Inorganic Chemistry, 2014, 53, 9156-9165.	4.0	11
29	Effect of the Electron Density of the Heme Fe Atom on the Feâ€“Histidine Coordination Bond in Deoxy Myoglobin. Bulletin of the Chemical Society of Japan, 2014, 87, 905-911.	3.2	2
30	Inversion of the Stereochemistry around the Sulfur Atom of the Axial Methionine Side Chain through Alteration of Amino Acid Side Chain Packing in Hydrogenobacter thermophilus Cytochrome c₅₅₂ and Its Functional Consequences. Biochemistry, 2013, 52, 4800-4809.	2.5	2
31	Relationship between the Electron Density of the Heme Fe Atom and the Vibrational Frequencies of the Fe-Bound Carbon Monoxide in Myoglobin. Inorganic Chemistry, 2013, 52, 3349-3355.	4.0	15
32	Field-dependent 19F NMR study of sperm whale myoglobin reconstituted with a ring-fluorinated heme. Polymer Journal, 2012, 44, 907-912.	2.7	3
33	Relationship between Oxygen Affinity and Autoxidation of Myoglobin. Inorganic Chemistry, 2012, 51, 11955-11960.	4.0	21
34	Interaction between the Heme and a G-Quartet in a Hemeâ€“DNA Complex. Inorganic Chemistry, 2012, 51, 8168-8176.	4.0	53
35	Structural characterization of a carbon monoxide adduct of a hemeâ€“DNA complex. Journal of Biological Inorganic Chemistry, 2012, 17, 437-445.	2.6	29
36	Fine tuning of the redox function of Pseudomonas aeruginosa cytochrome c551 through structural properties of a polypeptide loop bearing an axial Met residue. Journal of Inorganic Biochemistry, 2012, 108, 182-187.	3.5	4

#	Article	IF	Citations
37	Enhancement of the Thermostability of Hydrogenobacter thermophilus Cytochrome c₅₅₂ through Introduction of an Extra Methylene Group into Its Hydrophobic Protein Interior. Biochemistry, 2011, 50, 3161-3169.	2.5	8
38	Effect of Heme Modification on Oxygen Affinity of Myoglobin and Equilibrium of the Acidâ^'Alkaline Transition in Metmyoglobin. Journal of the American Chemical Society, 2010, 132, 6091-6098.	13.7	41
39	Role of a Highly Conserved Electrostatic Interaction on the Surface of Cytochrome c in Control of the Redox Function. Biochemistry, 2010, 49, 42-48.	2.5	14
40	Control of the Stability of Hydrogenobacter Thermophilus Cytochrome c₅₅₂ through Alteration of the Basicity of the N-Terminal Amino Group of the Polypeptide Chain. Inorganic Chemistry, 2010, 49, 10840-10846.	4.0	1
41	Characterization of the acidâ€"alkaline transition in the individual subunits of human adult and foetal methaemoglobins. Journal of Biochemistry, 2010, 148, 217-229.	1.7	3
42	Characterization of heme coordination structure in heme-DNA complex possessing gaseous molecule as an exogenous ligand. Nucleic Acids Symposium Series, 2009, 53, 241-242.	0.3	11
43	Electron transfer from cytochrome c to cupredoxins. Journal of Biological Inorganic Chemistry, 2009, 14, 821-828.	2.6	18
44	Stability of the Heme Feâ^'N-Terminal Amino Group Coordination Bond in Denatured Cytochrome c. Inorganic Chemistry, 2009, 48, 331-338.	4.0	2
45	Effect of Reversed Heme Orientation on Circular Dichroism and Cooperative Oxygen Binding of Human Adult Hemoglobin. Biochemistry, 2008, 47, 517-525.	2.5	32
46	Heme orientational disorder in human adult hemoglobin reconstituted with a ring fluorinated heme and its functional consequences. Biochemical and Biophysical Research Communications, 2007, 354, 681-685.	2.1	8
47	Local Conformational Transition of Hydrogenobacter thermophilus Cytochrome c₅₅₂ Relevant to Its Redox Potential[,]. Biochemistry, 2007, 46, 9215-9224.	2.5	10
48	Characterization of N-terminal amino groupâ€"heme ligation emerging upon guanidine hydrochloric acid induced unfolding of Hydrogenobacter thermophilus ferricytochrome c 552. Journal of Biological Inorganic Chemistry, 2007, 13, 25-34.	2.6	3
49	Dimerization of Parallel G-Quadruplex DNA Formed from TTAGGG and Interaction between G-Quadruplex DNA and Porphyrin Derivatives. Seibutsu Butsuri, 2007, 47, 023-028.	0.1	0
50	Formation of a Complex of 5,10,15,20-Tetrakis(N-methylpyridinium-4-yl)-21H,23H-porphyrin with G-Quadruplex DNA. Biochemistry, 2006, 45, 6765-6772.	2.5	79
51	Further Enhancement of the Thermostability ofHydrogenobacter thermophilusCytochromec552â€. Biochemistry, 2006, 45, 11005-11011.	2.5	19
52	Influence of a Single Amide Group on the Redox Function ofPseudomonas aeruginosaCytochromec551. Chemistry Letters, 2006, 35, 528-529.	1.3	7
53	Exogenous Ligand Binding Property of a Hemeâ€"DNA Coordination Complex. Chemistry Letters, 2006, 35, 126-127.	1.3	25
54	NMR Studies of b-Type Haemoproteins Reconstituted with a Ring-Fluorinated Haem. Annual Reports on NMR Spectroscopy, 2006, , 51-98.	1.5	2

#	Article	IF	Citations
55	Characterization of Non-Native Heme Coordination Structures Emerging upon Guanidine Hydrochloric Acid-Induced Unfolding ofPseudomonas aeruginosaFerricytochromec551. Bulletin of the Chemical Society of Japan, 2005, 78, 2019-2025.	3.2	6
56	Binding of 5,10,15,20-tetrakis(N-methylpyridinium-4-yl)-21H,23H-porphyrin to an AT-Rich Region of a Duplex DNA. Biophysical Chemistry, 2005, 113, 53-59.	2.8	35
57	Control of the Redox Potential of Pseudomonas aeruginosa Cytochrome c551 through the Feâ^'Met Coordination Bond Strength and pKa of a Buried Heme Propionic Acid Side Chain. Biochemistry, 2005, 44, 5488-5494.	2.5	26
58	19F NMR Characterization of the Thermodynamics and Dynamics of the Acidâ^'Alkaline Transition in a Reconstituted Sperm Whale Metmyoglobin. Journal of the American Chemical Society, 2005, 127, 4146-4147.	13.7	22
59	Dynamics and Thermodynamics of Dimerization of Parallel G-Quadruplexed DNA Formed from d(TTAGn) (n= 3â^'5). Journal of the American Chemical Society, 2005, 127, 9980-9981.	13.7	81
60	NMR investigation of the heme electronic structure in deoxymyoglobin possessing a fluorinated heme. Journal of Biological Inorganic Chemistry, 2004, 9, 152-160.	2.6	18
61	Effects of axial methionine coordination on the in-plane asymmetry of the heme electronic structure of cytochrome c. Journal of Biological Inorganic Chemistry, 2004, 9, 733-742.	2.6	19
62	19F NMR Study on the Heme Electronic Structure in Oxy and Carbonmonoxy Reconstituted Myoglobins. Bulletin of the Chemical Society of Japan, 2004, 77, 1485-1486.	3.2	10
63	1H-NMR study of dynamics and thermodynamics of Clâ^' binding to ferric hemoglobin of a midge larva (Tokunagayusurika akamusi). Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1652, 136-143.	2.3	9
64	Relationship between Redox Function and Protein Stability of Cytochromesc. Journal of the American Chemical Society, 2003, 125, 13650-13651.	13.7	29
65	Coordination complex between haemin and parallel-quadruplexed d(TTAGGG)Electronic supplementary information (ESI) available: CD and NMR spectra. See http://www.rsc.org/suppdata/cc/b3/b303643j/. Chemical Communications, 2003, , 1708.	4.1	32
66	A novel heme-DNA coordination complex and its stability. Nucleic Acids Symposium Series, 2002, 2, 285-286.	0.3	10
67	Influence of Amino Acid Side Chain Packing on Feâ^'Methionine Coordination in Thermostable Cytochrome c. Journal of the American Chemical Society, 2002, 124, 11574-11575.	13.7	25
68	1H NMR study of the effect of heme insertion on the folding of apomyoglobin. Journal of Molecular Structure, 2002, 602-603, 133-144.	3.6	1
69	Structural characterization of non-native states of sperm whale myoglobin in aqueous ethanol or 2,2,2-trifluoroethanol media. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2002, 1601, 75-84.	2.3	4
70	19F NMR Study of the Heme Orientation and Electronic Structure in a Myoglobin Reconstituted with a Ring-Fluorinated Heme. Bulletin of the Chemical Society of Japan, 2000, 73, 2309-2316.	3.2	13
71	Hydrogen bonding interaction of the amide group of Asn and Gln at distal E7 of bovine myoglobin with bound-ligand and its functional consequences. BBA - Proteins and Proteomics, 1999, 1433, 27-44.	2.1	6
72	NMR study of dynamics and thermodynamics of acidâ€"alkaline transition in ferric hemoglobin of a midge larva (Tokunagayusurika akamusi). BBA - Proteins and Proteomics, 1998, 1385, 89-100.	2.1	9

#	Article	IF	Citations
73	1H-NMR investigation of the influence of the heme orientation on functional properties of myoglobin. BBA - Proteins and Proteomics, 1998, 1388, 349-362.	2.1	19
74	A1H NMR comparative study of human adult and fetal hemoglobins. FEBS Letters, 1998, 424, 169-172.	2.8	7
75	Nmr Study Of Active Sites In Paramagnetic Haemoproteins. Annual Reports on NMR Spectroscopy, 1998, 36, 1-77.	1.5	30
76	1H-NMR Study of Inter-Segmental Hydrogen Bonds in Sperm Whale and Horse Apomyoglobins. FEBS Journal, 1997, 243, 292-298.	0.2	10
77	A 1H NMR comparative study of the structure of the critical packing interfaces between helix and non-helical region in various ligation states of sperm whale myoglobin. BBA - Proteins and Proteomics, 1997, 1343, 59-66.	2.1	3
78	1H NMR Study of the Heme Molecular Structure in Sperm Whale Met-Aquo and Met-Imidazole Myoglobins. Bulletin of the Chemical Society of Japan, 1996, 69, 2947-2953.	3.2	5
79	Paramagnetic1H NMR saturation transfer study of ligand exchange in iron(III) myoglobins. Magnetic Resonance in Chemistry, 1993, 31, S8-S16.	1.9	12
80	1H-NMR Comparative Study of the Active Site in Shark (Galeorhinus japonicus), Horse, and Sperm Whale Deoxy Myoglobins. Journal of Biochemistry, 1992, 112, 414-420.	1.7	18
81	NMR Characterization of Segment Sequence in Polyster-Polyether Copolymers.. Polymer Journal, 1992, 24, 1345-1349.	2.7	18
82	Kinetic characterization of the acid-alkaline transition inDolabella auricula riaferric myoglobin using1H-NMR saturation transfer experiments. FEBS Letters, 1992, 310, 71-74.	2.8	17
83	Molecular mechanism for ligand stabilization in the mollusc myoglobin possessing the distal Val residue. Journal of Molecular Biology, 1992, 228, 343-346.	4.2	30
84	STRUCTURAL DETERMINATION OF CYCLOALIPHATIC EPOXY MONOMERS BY TWO-DIMENSIONAL NMR SPECTROSCOPY AND QUANTUM CHEMICAL CALCULATION. Analytical Sciences, 1991, 7, 425-428.	1.6	0
85	NMR study of Galeorhinus japonicus myoglobin. 1H-NMR evidence for a structural alteration on the active site of G. japonicus myoglobin upon azide ion binding. FEBS Journal, 1991, 198, 285-291.	0.2	16
86	NMR study of Galeorhinus japonicus myoglobin. 1H-NMR study of molecular structure of the heme cavity. FEBS Journal, 1991, 198, 299-306.	0.2	15
87	Structural Determination of 4-Vinylcyclohexene Oxide Using 2D INADEQUATE NMR Spectroscopy and MNDO Calculation. Polymer Journal, 1990, 22, 719-723.	2.7	1
88	1H-NMR study of heme propanoate mobility in the active site of myoglobin from Galeorhinus japonicus. FEBS Journal, 1990, 189, 567-573.	0.2	12
89	A 1H-NMR study of electronic structure of the active site of Galeorhinus japonicus metmyoglobin. FEBS Journal, 1990, 192, 225-229.	0.2	24
90	Heme methyl hyperfine shift pattern as a probe for determining the orientation of the functionally relevant proximal histidyl imidazole with respect to the heme in hemoproteins. FEBS Letters, 1990, 264, 112-116.	2.8	55

#	Article	IF	Citations
91	Determination of the functionally important heme peripheral vinyl group orientation in paramagnetic hemoprotein by 2D NMR. FEBS Letters, 1989, 247, 263-267.	2.8	23
92	Quantitative Mapping of Metal-Centered Dipolar Field in Hemin Dicyano Complex by Solution NMR. Bulletin of the Chemical Society of Japan, 1989, 62, 1771-1776.	3.2	7
93	Proton NMR study of dynamics and thermodynamics of heme rotational disorder in native and reconstituted hemoglobin A. Biochemistry, 1986, 25, 5288-5297.	2.5	60
94	Proton NMR characterization of metastable and equilibrium heme orientational heterogeneity in reconstituted and native human hemoglobin. Biochemistry, 1985, 24, 3826-3831.	2.5	79