# Koichiro Ishimori

List of Publications by Year
in descending order



| 175 | 5,134 | 70961 | 110170 |
|---|---|---|---|
| papers | citations | 41 h-index | 64 g-index |

| 186 | 186 | 186 | 4248 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Roles of proximal ligand in heme proteins: replacement of proximal histidine of human myoglobin with cysteine and tyrosine by site-directed mutagenesis as models for P-450, chloroperoxidase, and catalase. Biochemistry, 1993, 32, 241-252. | 1.2 | 257 |
| 2 | Conformational landscape of cytochrome c folding studied by microsecond-resolved small-angle x-ray scattering. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1329-1334. | 3.3 | 244 |
| 3 | Identification of the ubiquitinâ€“protein ligase that recognizes oxidized IRP2. Nature Cell Biology, 2003, 5, 336-340. | 4.6 | 176 |
| 4 | Haem-dependent dimerization of PGRMC1/Sigma-2 receptor facilitates cancer proliferation and chemoresistance. Nature Communications, 2016, 7, 11030. | 5.8 | 153 |
| 5 | Collapse and search dynamics of apomyoglobin folding revealed by submillisecond observations of Â-helical content and compactness. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1171-1176. | 3.3 | 150 |
| 6 | Stepwise formation of alpha-helices during cytochrome c folding. Nature Structural Biology, 2000, 7, 514-520. | 9.7 | 140 |
| 7 | Involvement of Heme Regulatory Motif in Heme-Mediated Ubiquitination and Degradation of IRP2. Molecular Cell, 2005, 19, 171-181. | 4.5 | 135 |
| 8 | Roles of the axial push effect in cytochrome P450cam studied with the site-directed mutagenesis at the heme proximal site. Journal of Inorganic Biochemistry, 2000, 81, 141-151. | 1.5 | 120 |
| 9 | Roles of the Proximal Hydrogen Bonding Network in Cytochrome P450cam-Catalyzed Oxygenation. Journal of the American Chemical Society, 2002, 124, 14571-14579. | 6.6 | 100 |
| 10 | Catalytic Roles of the Distal Site Asparagineâ”Histidine Couple in Peroxidasesâ€. Biochemistry, 1996, 35, 14251-14258. | 1.2 | 94 |
| 11 | Specific collapse followed by slow hydrogen-bond formation of Â-sheet in the folding of single-chain monellin. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2748-2753. | 3.3 | 91 |
| 12 | Hierarchical folding mechanism of apomyoglobin revealed by ultra-fast H/D exchange coupled with 2D NMR. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13859-13864. | 3.3 | 89 |
| 13 | Effects of Concerted Hydrogen Bonding of Distal Histidine on Active Site Structures of Horseradish Peroxidase. Resonance Raman Studies with Asn70 Mutants. Journal of the American Chemical Society, 1997, 119, 1758-1766. | 6.6 | 81 |
| 14 | Alteration of human myoglobin proximal histidine to cysteine or tyrosine by site-directed mutagenesis: Characterization and their catalytic activities. Biochemical and Biophysical Research Communications, 1991, 180, 138-144. | 1.0 | 80 |
| 15 | Catalytic Activities and Structural Properties of Horseradish Peroxidase Distal His42 â†’ Glu or Gln Mutantâ€. Biochemistry, 1997, 36, 9889-9898. | 1.2 | 80 |
| 16 | Two Heme Binding Sites Are Involved in the Regulated Degradation of the Bacterial Iron Response Regulator (Irr) Protein. Journal of Biological Chemistry, 2005, 280, 7671-7676. | 1.6 | 74 |
| 17 | Direct electron transfer catalysed by recombinant forms of horseradish peroxidase: insight into the mechanism. Electrochemistry Communications, 1999, 1, 171-175. | 2.3 | 70 |
| 18 | Preparation and Reactions of Myoglobin Mutants Bearing both Proximal Cysteine Ligand and Hydrophobic Distal Cavity:Â Protein Models for the Active Site of P-450â€. Biochemistry, 1996, 35, 13118-13124. | 1.2 | 69 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Identification of Histidine 77 as the Axial Heme Ligand of Carbonmonoxy CooA by Picosecond Time-Resolved Resonance Raman Spectroscopy. Biochemistry, 2000, 39, 12747-12752. | 1.2 | 65 |
| 20 | Cerebral oxygen utilization analyzed by the use of oxygen-17 and its nuclear magnetic resonance. Biochemical and Biophysical Research Communications, 1990, 169, 153-158. | 1.0 | 59 |
| 21 | Heme-Binding Characteristics of the Isolated PAS-A Domain of Mouse Per2, a Transcriptional Regulatory Factor Associated with Circadian Rhythms. Biochemistry, 2008, 47, 6157-6168. | 1.2 | 57 |
| 22 | A Dye-Decolorizing Peroxidase from Vibrio cholerae. Biochemistry, 2015, 54, 6610-6621. | 1.2 | 56 |
| 23 | Time-resolved Small-angle X-ray Scattering Investigation of the Folding Dynamics of Heme Oxygenase: Implication of the Scaling Relationship for the Submillisecond Intermediates of Protein Folding. Journal of Molecular Biology, 2006, 357, 997-1008. | 2.0 | 55 |
| 24 | Site-directed mutagenesis in hemoglobin: functional and structural role of inter- and intrasubunit hydrogen bonds as studied with 37.beta. and 145.beta. mutations. Biochemistry, 1992, 31, 3256-3264. | 1.2 | 54 |
| 25 | Proximal cysteine residue is essential for the enzymatic activities of cytochrome P450cam. FEBS Journal, 2001, 268, 252-259. | 0.2 | 54 |
| 26 | Activation of Hydrogen Peroxide in Horseradish Peroxidase Occurs within âˆ¼200Î¼s Observed by a New Freeze-Quench Device. Biophysical Journal, 2003, 84, 1998-2004. | 0.2 | 54 |
| 27 | Crystal Structure of the Cytochrome P450cam Mutant That Exhibits the Same Spectral Perturbations Induced by Putidaredoxin Binding. Journal of Biological Chemistry, 2004, 279, 42844-42849. | 1.6 | 54 |
| 28 | L358P Mutation on Cytochrome P450cam Simulates Structural Changes upon Putidaredoxin Binding. Journal of Biological Chemistry, 2004, 279, 42836-42843. | 1.6 | 53 |
| 29 | Site-directed mutagenesis in haemoglobin. Journal of Molecular Biology, 1991, 218, 769-778. | 2.0 | 52 |
| 30 | Oligomerization of a molecular chaperone modulates its activity. ELife, 2018, 7, . | 2.8 | 51 |
| 31 | Heme Environmental Structure of CooA Is Modulated by the Target DNA Binding. Journal of Biological Chemistry, 1998, 273, 19988-19992. | 1.6 | 50 |
| 32 | Binding of CO at the Pro2 Side Is Crucial for the Activation of CO-sensing Transcriptional Activator CooA. Journal of Biological Chemistry, 2001, 276, 11473-11476. | 1.6 | 50 |
| 33 | Direct Observation of the Multistep Helix Formation of Poly-l-glutamic Acids. Journal of the American Chemical Society, 2002, 124, 11596-11597. | 6.6 | 50 |
| 34 | NMR basis for interprotein electron transfer gating between cytochrome c and cytochrome c oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12271-12276. | 3.3 | 50 |
| 35 | Molecular oxygen regulates the enzymatic activity of a heme-containing diguanylate cyclase (HemDGC) for the synthesis of cyclic di-GMP. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 166-172. | 1.1 | 48 |
| 36 | NMR Study on the Structural Changes of Cytochrome P450cam upon the Complex Formation with Putidaredoxin. Journal of Biological Chemistry, 2003, 278, 39809-39821. | 1.6 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Molecular Basis of Guanine Nucleotide Dissociation Inhibitor Activity of Human Neuroglobin by Chemical Cross-linking and Mass Spectrometry. Journal of Molecular Biology, 2007, 368, 150-160. | 2.0 | 46 |
| 38 | Hydrogen Bond Network in the Distal Site of Peroxidases:Â Spectroscopic Properties of Asn70 â†' Asp Horseradish Peroxidase Mutantâ€. Biochemistry, 1997, 36, 9791-9798. | 1.2 | 44 |
| 39 | Optical manipulation of proteins in aqueous solution. Applied Surface Science, 2009, 255, 9906-9908. | 3.1 | 44 |
| 40 | Specifically Collapsed Intermediate in the Early Stage of the Folding of Ribonuclease A. Journal of Molecular Biology, 2005, 350, 349-362. | 2.0 | 43 |
| 41 | Identification and Functional and Spectral Characterization of a Globin-coupled Histidine Kinase from Anaeromyxobacter sp. Fw109-5. Journal of Biological Chemistry, 2011, 286, 35522-35534. | 1.6 | 43 |
| 42 | Conformational Disorder of the Most Immature Cu, Zn-Superoxide Dismutase Leading to Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2016, 291, 4144-4155. | 1.6 | 42 |
| 43 | Detection of a Tryptophan Radical as an Intermediate Species in the Reaction of Horseradish Peroxidase Mutant (Phe-221 â†' Trp) and Hydrogen Peroxide. Journal of Biological Chemistry, 1998, 273, 14753-14760. | 1.6 | 40 |
| 44 | Decreased intracellular free magnesium in erythrocytes of spontaneously hypertensive rats. Biochemical and Biophysical Research Communications, 1987, 143, 1012-1017. | 1.0 | 39 |
| 45 | The Effects of Heme Pocket Hydrophobicity on the Ligand Binding Dynamics in Myoglobin as Studied with Leucine 29 Mutants. Journal of Biological Chemistry, 1997, 272, 30108-30114. | 1.6 | 39 |
| 46 | Roles of negatively charged surface residues of putidaredoxin in interactions with redox partners in P450cam monooxygenase system. BBA - Proteins and Proteomics, 1998, 1386, 157-167. | 2.1 | 39 |
| 47 | Isothermal titration calorimetric studies on the associations of putidaredoxin to NADH-putidaredoxin reductase and P450cam. BBA - Proteins and Proteomics, 1998, 1384, 180-188. | 2.1 | 38 |
| 48 | Iron Hemiporphycene as a Functional Prosthetic Group for Myoglobin. Inorganic Chemistry, 2003, 42, 1456-1461. | 1.9 | 38 |
| 49 | Dehydration of main-chain amides in the final folding step of single-chain monellin revealed by time-resolved infrared spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13391-13396. | 3.3 | 38 |
| 50 | Unusual Heme Binding in the Bacterial Iron Response Regulator Protein: Spectral Characterization of Heme Binding to the Heme Regulatory Motif. Biochemistry, 2011, 50, 1016-1022. | 1.2 | 38 |
| 51 | Kinetic and Spectroscopic Characterization of a Hydroperoxy Compound in the Reaction of Native Myoglobin with Hydrogen Peroxide. Journal of Biological Chemistry, 2003, 278, 41597-41606. | 1.6 | 35 |
| 52 | Activation Mechanisms of Transcriptional Regulator CooA Revealed by Small-angle X-ray Scattering. Journal of Molecular Biology, 2004, 341, 651-668. | 2.0 | 33 |
| 53 | Structural Diversities of Active Site in Clinical Azole-bound Forms between Sterol 14Î±-Demethylases (CYP51s) from Human and Mycobacterium tuberculosis. Journal of Biological Chemistry, 2005, 280, 9088-9096. | 1.6 | 33 |
| 54 | A heme degradation enzyme, HutZ, from Vibrio cholerae. Chemical Communications, 2012, 48, 6741. | 2.2 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Ligand Migration in Human Myoglobin: Steric Effects of Isoleucine 107(G8) on O2 and CO Binding. Biophysical Journal, 2001, 80, 1507-1517. | 0.2 | 32 |
| 56 | Structural Roles of the Highly Conserved Glu Residue in the Heme Distal Site of Peroxidasesâ€. Biochemistry, 1998, 37, 2629-2638. | 1.2 | 31 |
| 57 | C9orf72-derived arginine-rich poly-dipeptides impede phase modifiers. Nature Communications, 2021, 12, 5301. | 5.8 | 31 |
| 58 | Study of the specific heme orientation in reconstituted hemoglobins. Biochemistry, 1988, 27, 4747-4753. | 1.2 | 30 |
| 59 | Molecular Mechanism of the Electron Transfer Reaction in Cytochrome P450camâ^'Putidaredoxin:â€‰ Roles of Glutamine 360 at the Heme Proximal Site. Biochemistry, 2002, 41, 13883-13893. | 1.2 | 30 |
| 60 | High-pressure laser photolysis study of hemoproteins. Effects of pressure on carbon monoxide binding dynamics for R- and T-state hemoglobins. Biochemistry, 1990, 29, 10199-10205. | 1.2 | 28 |
| 61 | Investigation of the redox-dependent modulation of structure and dynamics in human cytochrome c. Biochemical and Biophysical Research Communications, 2016, 469, 978-984. | 1.0 | 27 |
| 62 | High-Pressure Flash Photolysis Study of Hemoprotein: Effects of Substrate Analogs on the Recombination of Carbon Monoxide to Cytochrome P450CAM. Biochemistry, 1994, 33, 9762-9768. | 1.2 | 26 |
| 63 | Roles of valine-98 and glutamic acid-72 of putidaredoxin in the electron-transfer complexes with NADH-putidaredoxin reductase and P450cam. Inorganica Chimica Acta, 1998, 272, 80-88. | 1.2 | 26 |
| 64 | Electron Transfer Reactions in Zn-Substituted Cytochrome P450cam. Biochemistry, 2000, 39, 10996-11004. | 1.2 | 26 |
| 65 | Functions of Fluctuation in the Heme-Binding Loops of Cytochrome b5 Revealed in the Process of Heme Incorporation. Biochemistry, 2000, 39, 5961-5970. | 1.2 | 25 |
| 66 | Absence of a Detectable Intermediate in the Compound I Formation of Horseradish Peroxidase at Ambient Temperature*. Journal of Biological Chemistry, 2005, 280, 40934-40938. | 1.6 | 24 |
| 67 | Energetic Mechanism of Cytochrome c-Cytochrome c Oxidase Electron Transfer Complex Formation under Turnover Conditions Revealed by Mutational Effects and Docking Simulation. Journal of Biological Chemistry, 2016, 291, 15320-15331. | 1.6 | 23 |
| 68 | Cytoplasmic Heme-Binding Protein (HutX) from Vibrio cholerae Is an Intracellular Heme Transport Protein for the Heme-Degrading Enzyme, HutZ. Biochemistry, 2016, 55, 884-893. | 1.2 | 23 |
| 69 | Site-directed mutagenesis in hemoglobin: Functional and structural study of the intersubunit hydrogen bond of threonine-38(C3).alpha. at the .alpha.1-.beta.2 interface in human hemoglobin. Biochemistry, 1993, 32, 13688-13695. | 1.2 | 22 |
| 70 | Characterization of a Mutant RecA Protein that Facilitates Homologous Genetic Recombination but not Recombinational DNA Repair: RecA423. Journal of Molecular Biology, 1996, 264, 696-712. | 2.0 | 22 |
| 71 | Amorphous Aggregation of Cytochrome c with Inherently Low Amyloidogenicity Is Characterized by the Metastability of Supersaturation and the Phase Diagram. Langmuir, 2016, 32, 2010-2022. | 1.6 | 22 |
| 72 | The Distal Glutamic Acid as an Acid-Base Catalyst in the Distal Site of Horseradish Peroxidase. Biochemical and Biophysical Research Communications, 1996, 227, 393-399. | 1.0 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Structural and functional roles of heme binding module in globin proteins: identification of the segment regulating the heme binding structure. Journal of Molecular Biology, 1998, 283, 311-327. | 2.0 | 21 |
| 74 | Protein oxidation mediated by heme-induced active site conversion specific for heme-regulated transcription factor, iron response regulator. Scientific Reports, 2016, 6, 18703. | 1.6 | 21 |
| 75 | Structural and Functional Roles of Modules in Hemoglobin. Journal of Biological Chemistry, 1997, 272, 30054-30060. | 1.6 | 20 |
| 76 | NMR studies of putidaredoxin: associations of putidaredoxin with NADH-putidaredoxin reductase and cytochrome P450cam. BBA - Proteins and Proteomics, 1998, 1386, 168-178. | 2.1 | 20 |
| 77 | Identification of Crucial Histidines for Heme Binding in the N-terminal Domain of the Heme-regulated eIF2Î± Kinase. Journal of Biological Chemistry, 2004, 279, 6778-6782. | 1.6 | 20 |
| 78 | Effects of the bHLH domain on axial coordination of heme in the PAS-A domain of neuronal PAS domain protein 2 (NPAS2): Conversion from His119/Cys170 coordination to His119/His171 coordination. Journal of Inorganic Biochemistry, 2012, 108, 188-195. | 1.5 | 20 |
| 79 | Sequence and Temperature Dependence of the End-to-End Collision Dynamics of Single-Stranded DNA. Biophysical Journal, 2013, 104, 2485-2492. | 0.2 | 20 |
| 80 | Structural insight into proline cis/trans isomerization of unfolded proteins catalyzed by the trigger factor chaperone. Journal of Biological Chemistry, 2018, 293, 15095-15106. | 1.6 | 20 |
| 81 | NMR study of hybrid hemoglobins containing unnatural heme: effect of heme modification on their tertiary and quaternary structures. Biochemistry, 1986, 25, 4892-4898. | 1.2 | 19 |
| 82 | Luminol Activity of Horseradish Peroxidase Mutants Mimicking a Proposed Binding Site for Luminol inArthromyces ramosusPeroxidaseâ€. Biochemistry, 1999, 38, 10463-10473. | 1.2 | 19 |
| 83 | Accelerating structural life science by paramagnetic lanthanide probe methods. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129332. | 1.1 | 19 |
| 84 | Site-Directed Mutagenesis in Hemoglobin: Functional and Structural Role of the Penultimate Tyrosine in the .alpha. Subunit. Biochemistry, 1994, 33, 2546-2553. | 1.2 | 18 |
| 85 | Pressure Effects on Electron Transfer Rates in Zinc/Ruthenium Modified Myoglobins. Journal of the American Chemical Society, 1997, 119, 9582-9583. | 6.6 | 18 |
| 86 | Investigation of the Electron-Transfer Mechanism by Cross-Linking between Zn-substituted Myoglobin and Cytochromeb5. Journal of the American Chemical Society, 2002, 124, 4008-4019. | 6.6 | 18 |
| 87 | Pressure effects on carbon monoxide rebinding to the isolated .alpha. and .beta. chains of human hemoglobin. Biochemistry, 1991, 30, 10679-10685. | 1.2 | 17 |
| 88 | Pressure Dependence of the Intramolecular Electron Transfer Reaction in Myoglobin Reinvestigated. Journal of Physical Chemistry B, 2000, 104, 1817-1825. | 1.2 | 17 |
| 89 | Ruthenium-iron hybrid hemoglobins as a model for partially liganded hemoglobin: NMR studies of their tertiary and quaternary structures. Biochemistry, 1988, 27, 4060-4066. | 1.2 | 16 |
| 90 | Effects of the Intramolecular Disulfide Bond on Ligand Binding Dynamics in Myoglobin. Biochemistry, 1997, 36, 324-332. | 1.2 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | â€˜Moduleâ€™-substituted globins: Artificial exon shuffling among myoglobin, hemoglobin Î±- and Î²-subunits. Biophysical Chemistry, 1997, 68, 265-273. | 1.5 | 16 |
| 92 | Unique Heme Environmental Structures in Heme-regulated Proteins Using Heme as the Signaling Molecule. Chemistry Letters, 2014, 43, 1680-1689. | 0.7 | 16 |
| 93 | Functional cooperativity between the trigger factor chaperone and the ClpXP proteolytic complex. Nature Communications, 2021, 12, 281. | 5.8 | 16 |
| 94 | NO-Induced Activation Mechanism of the Heme-Regulated eIF2Î± Kinase. Journal of the American Chemical Society, 2002, 124, 13696-13697. | 6.6 | 15 |
| 95 | Redox-controlled backbone dynamics of human cytochrome c revealed by 15N NMR relaxation measurements. Biochemical and Biophysical Research Communications, 2010, 398, 231-236. | 1.0 | 15 |
| 96 | Heme Binding to Porphobilinogen Deaminase from Vibrio cholerae Decelerates the Formation of 1-Hydroxymethylbilane. ACS Chemical Biology, 2018, 13, 750-760. | 1.6 | 15 |
| 97 | Dehydration in the Folding of Reduced CytochromecRevealed by the Electron-Transfer-Triggered Folding under High Pressure. Journal of the American Chemical Society, 2006, 128, 670-671. | 6.6 | 14 |
| 98 | Effects of intra- and intersubunit hydrogen bonds on the R-T transition in human hemoglobin as studied with .alpha.42(C7) and .beta.145(HC2) mutations. Biochemistry, 1993, 32, 10165-10169. | 1.2 | 13 |
| 99 | Structural and Functional Effects of Pseudo-module Substitution in Hemoglobin Subunits. Journal of Biological Chemistry, 1998, 273, 8080-8087. | 1.6 | 13 |
| 100 | Reaction intermediates in the heme degradation reaction by HutZ from Vibrio cholerae. Dalton Transactions, 2017, 46, 8104-8109. | 1.6 | 13 |
| 101 | Spectroscopic studies on HasA from Yersinia pseudotuberculosis. Journal of Inorganic Biochemistry, 2014, 138, 31-38. | 1.5 | 12 |
| 102 | Redox-Dependent Dynamics in Heme-Bound Bacterial Iron Response Regulator (Irr) Protein. Biochemistry, 2016, 55, 4047-4054. | 1.2 | 12 |
| 103 | Dual role of the active-center cysteine in human peroxiredoxin 1: Peroxidase activity and heme binding. Biochemical and Biophysical Research Communications, 2017, 483, 930-935. | 1.0 | 12 |
| 104 | Specific heme binding to heme regulatory motifs in iron regulatory proteins and its functional significance. Journal of Inorganic Biochemistry, 2019, 198, 110726. | 1.5 | 12 |
| 105 | Structural and functional characterization of â€œlaboratory evolvedâ€•cytochrome P450cam mutants showing enhanced naphthalene oxygenation activity. Biochemical and Biophysical Research Communications, 2004, 323, 1209-1215. | 1.0 | 11 |
| 106 | Molecular Mechanism for Heme-Mediated Inhibition of 5-Aminolevulinic Acid Synthase 1. Bulletin of the Chemical Society of Japan, 2014, 87, 997-1004. | 2.0 | 11 |
| 107 | Oscillatory growth for twisting crystals. Chemical Communications, 2015, 51, 8516-8519. | 2.2 | 11 |
| 108 | Heme Proximal Hydrogen Bonding between His170 and Asp132 Plays an Essential Role in the Heme Degradation Reaction of HutZ from Vibrio cholerae. Biochemistry, 2017, 56, 2723-2734. | 1.2 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Oxidation-State-Dependent Protein Docking between Cytochromecand Cytochromeb5:Â High-Pressure Laser Flash Photolysis Studyâ€. Biochemistry, 2002, 41, 9824-9832. | 1.2 | 10 |
| 110 | Electron Transfer Reaction in a Single Protein Molecule Observed by Total Internal Reflection Fluorescence Microscopy. Journal of the American Chemical Society, 2005, 127, 2098-2103. | 6.6 | 10 |
| 111 | HmuS from Yersinia pseudotuberculosis is a non-canonical heme-degrading enzyme to acquire iron from heme. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1870-1878. | 1.1 | 10 |
| 112 | The Iron Chaperone Protein CyaY from Vibrio cholerae Is a Heme-Binding Protein. Biochemistry, 2017, 56, 2425-2434. | 1.2 | 10 |
| 113 | Redox-dependent axial ligand replacement and its functional significance in heme-bound iron regulatory proteins. Journal of Inorganic Biochemistry, 2018, 182, 238-248. | 1.5 | 9 |
| 114 | Ruthenium-iron hybrid hemoglobins as a model for partially liganded hemoglobin: oxygen equilibrium curves and resonance Raman spectra. Biochemistry, 1989, 28, 8603-8609. | 1.2 | 8 |
| 115 | Substitution of the Heme Binding Module in Hemoglobin Î±- and Î²-Subunits. Journal of Biological Chemistry, 2000, 275, 12438-12445. | 1.6 | 8 |
| 116 | Unique Peroxidase Reaction Mechanism in Prostaglandin Endoperoxide H Synthase-2. Journal of Biological Chemistry, 2007, 282, 16681-16690. | 1.6 | 8 |
| 117 | Structural Characterization of Heme Environmental Mutants of CgHmuT that Shuttles Heme Molecules to Heme Transporters. International Journal of Molecular Sciences, 2016, 17, 829. | 1.8 | 8 |
| 118 | Iron chelators inhibit the heme-degradation reaction by HutZ from Vibrio cholerae. Dalton Transactions, 2017, 46, 5147-5150. | 1.6 | 8 |
| 119 | Quantitative description and classification of protein structures by a novel robust amino acid network: interaction selective network (ISN). Scientific Reports, 2019, 9, . | 1.6 | 8 |
| 120 | Mechanistic insights into heme-mediated transcriptional regulation via a bacterial manganese-binding iron regulator, iron response regulator (Irr). Journal of Biological Chemistry, 2020, 295, 11316-11325. | 1.6 | 8 |
| 121 | Unusual Pressure Effects on Ligand Rebinding to the Human Myoglobin Leucine 29 Mutants. Journal of Biological Chemistry, 2000, 275, 30309-30316. | 1.6 | 7 |
| 122 | Subunitâ€“subunit interactions play a key role in the heme-degradation reaction of HutZ fromVibrio cholerae. Dalton Transactions, 2019, 48, 3973-3983. | 1.6 | 7 |
| 123 | Structureactivity relation of horseradish peroxidases as studied with mutations at heme distal and proximal sites. Pure and Applied Chemistry, 1998, 70, 911-916. | 0.9 | 7 |
| 124 | Crystal structure of a protein with an artificial exon-shuffling, module M4-substituted chimera hemoglobin Î²Î±, at 2.5 Ã... resolution 1 1Edited by K. Nagei. Journal of Molecular Biology, 1999, 287, 369-382. | 2.0 | 6 |
| 125 | NMR studies of recombinant cytochrome P450cam mutants. Biochimie, 1996, 78, 763-770. | 1.3 | 5 |
| 126 | The artificial Î±1Î²1-contact mutant hemoglobin, Hb Phe-35Î², shows only small functional abnormalities. FEBS Letters, 1998, 441, 93-96. | 1.3 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Conversion of an Electron-Transfer Protein into an Oxygen Binding Protein:Â The Axial Cytochromeb5Mutant with an Unusually High O2Affinity. Journal of the American Chemical Society, 2000, 122, 11535-11536. | 6.6 | 5 |
| 128 | Dioxygen Reduction bybo-Type Quinol Oxidase fromEscherichia coliStudied by Submillisecond-Resolved Freezeâ"Quench EPR Spectroscopyâ€. Biochemistry, 2004, 43, 2288-2296. | 1.2 | 5 |
| 129 | Energetic basis on interactions between ferredoxin and ferredoxin NADP + reductase at varying physiological conditions. Biochemical and Biophysical Research Communications, 2017, 482, 909-915. | 1.0 | 5 |
| 130 | Complete Genome Sequence of Staphylococcus arlettae Strain P2, Isolated from a Laboratory Environment. Microbiology Resource Announcements, 2019, 8, . | 0.3 | 5 |
| 131 | Structural basis for the heme transfer reaction in heme uptake machinery from Corynebacteria. Chemical Communications, 2019, 55, 13864-13867. | 2.2 | 5 |
| 132 | Radical transfer but not heme distal residues is essential for pH dependence of dye-decolorizing activity of peroxidase from Vibrio cholerae. Journal of Inorganic Biochemistry, 2021, 219, 111422. | 1.5 | 5 |
| 133 | Uncovering dehydration in cytochrome c refolding from urea- and guanidine hydrochloride-denatured unfolded state by high pressure spectroscopy. Biophysics and Physicobiology, 2019, 16, 18-27. | 0.5 | 5 |
| 134 | Steric effects of isoleucine 107 on heme reorientation reaction in human myoglobin. Biochemical and Biophysical Research Communications, 2004, 324, 1095-1100. | 1.0 | 4 |
| 135 | Probing phenylalanine environments in oligomeric structures with pentafluorophenylalanine and cyclohexylalanine. Biopolymers, 2011, 95, 410-419. | 1.2 | 4 |
| 136 | Polyethylene glycol promotes autoxidation of cytochrome c. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1339-1349. | 1.1 | 4 |
| 137 | Regulation of the expression of the nickel uptake system in Vibrio cholerae by iron and heme via ferric uptake regulator (Fur). Journal of Inorganic Biochemistry, 2022, 228, 111713. | 1.5 | 4 |
| 138 | Biophysical research in Hokkaido University, Japan. Biophysical Reviews, 2020, 12, 233-236. | 1.5 | 3 |
| 139 | Osmotic pressure effects identify dehydration upon cytochrome câ€"cytochrome c oxidase complex formation contributing to a specific electron pathway formation. Biochemical Journal, 2020, 477, 1565-1578. | 1.7 | 3 |
| 140 | Zinc-Dependent Oligomerization of Thermus thermophilus Trigger Factor Chaperone. Biology, 2021, 10, 1106. | 1.3 | 3 |
| 141 | Interaction of fully liganded valency hybrid hemoglobin with inositol hexaphosphate. Implication of the IHP-induced T state of human adult methemoglobin in the low-spin state. Biochemistry, 1986, 25, 7243-7250. | 1.2 | 2 |
| 142 | Design, construction, crystallization, and preliminary X-ray studies of a fine-tuning mutant (F133V) of module-substituted chimera hemoglobin. , 1998, 32, 263-267. | | 2 |
| 143 | Heme-Binding Properties of HupD Functioning as a Substrate-Binding Protein in a Heme-Uptake ABC-Transporter System in Listeria monocytogenes. Bulletin of the Chemical Society of Japan, 2014, 87, 1140-1146. | 2.0 | 2 |
| 144 | Heme Iron Coordination Structure of Heme Transport Protein HutB from Vibrio Cholerae. Bulletin of the Chemical Society of Japan, 2017, 90, 924-930. | 2.0 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Role of His63 in HutZ fromVibrio choleraein the heme degradation reaction and heme binding. Dalton Transactions, 2019, 48, 5408-5416. | 1.6 | 2 |
| 146 | Role of conserved arginine in the heme distal site of HutZ from Vibrio cholerae in the heme degradation reaction. Archives of Biochemistry and Biophysics, 2019, 677, 108165. | 1.4 | 2 |
| 147 | Structural and Kinetic Views of Molecular Chaperones in Multidomain Protein Folding. International Journal of Molecular Sciences, 2022, 23, 2485. | 1.8 | 2 |
| 148 | NMR study of haem exchange reaction of native myoglobin and haemoglobin. Magnetic Resonance in Chemistry, 1993, 31, S113-S117. | 1.1 | 1 |
| 149 | Mechanism of peroxidase activity as studied with some recombinant horseradish peroxidases. Journal of Inorganic Biochemistry, 1997, 67, 80. | 1.5 | 1 |
| 150 | Conformational ensemble of a multidomain protein explored by Gd3+ electron paramagnetic resonance. Biophysical Journal, 2021, 120, 2943-2951. | 0.2 | 1 |
| 151 | Round-Table Discussion on â€œFuture of Biophysicsâ€• Seibutsu Butsuri, 2012, 52, 083-095. | 0.0 | 1 |
| 152 | The effects of pressure on O2 and CO binding kinetics for hemoproteins. Journal of Inorganic Biochemistry, 1989, 36, 314. | 1.5 | 0 |
| 153 | Structure and function of module-substituted hemoproteins. Journal of Inorganic Biochemistry, 1995, 59, 435. | 1.5 | 0 |
| 154 | S3f1-4 Generality of Initial Collapse Demonstrated by Scaling Relationship for Submillisecond Intermediates of Protein Folding(S3-f1: "Hydration Effects on Structure and Thermodynamics of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 | | 0 |
| 155 | S14I4 Structural and Functional Characterization of Sensor Proteins Regulated by Heme Binding(Protein-Ligand Interactions). Seibutsu Butsuri, 2007, 47, S20. | 0.0 | 0 |
| 156 | Amorphous Aggregation of Cytochrome C with Inherently low Amyloidogenicity is Characterized by the Metastability of Supersaturation and the Phase Diagram. Biophysical Journal, 2016, 110, 399a. | 0.2 | 0 |
| 157 | A single mutation converts Alr5027 from cyanobacteria Nostoc sp. PCC 7120 to a heme-binding protein with heme-degrading ability. Journal of Inorganic Biochemistry, 2020, 203, 110916. | 1.5 | 0 |
| 158 | Spectroscopic Characterization of Halorhodopsin Reconstituted into Nanodisks Using Native Lipids. Biophysical Journal, 2020, 118, 2853-2865. | 0.2 | 0 |
| 159 | Pressure Effects on the Intramolecular Electron Transfer Reactions in Hemoproteins. , 2002, , 187-203. | | 0 |
| 160 | Regulation Mechanism of Cytochrome P450cam-Catalyzed Oxygenation Reaction upon Putidaredoxin Binding. Seibutsu Butsuri, 2005, 45, 78-83. | 0.0 | 0 |
| 161 | Japanese Only. Seibutsu Butsuri, 2006, 46, 1. | 0.0 | 0 |
| 162 | Volume Profile Analysis for Protein Folding. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2007, 17, 13-22. | 0.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Early Research in Biophysics Award. Seibutsu Butsuri, 2007, 47, 059-061. | 0.0 | 0 |
| 164 | Early Research in Biophysics Award â€"Report on the Third Award Selection Processâ€". Seibutsu Butsuri, 2008, 48, 052-055. | 0.0 | 0 |
| 165 | Report of Symposium on Gender Equality in the 45th Annual Meeting of the Biophysical Society of Japan. Seibutsu Butsuri, 2008, 48, 056-057. | 0.0 | 0 |
| 166 | Characterization and Molecular Design of Hemoproteins by Protein Engineering.. Seibutsu Butsuri, 1993, 33, 212-218. | 0.0 | 0 |
| 167 | Catalytic Roles of the Distal Site Hydrogen Bond Network of Peroxidases. , 1998, , 354-358. | | 0 |
| 168 | Electron Transfer Pathway Analysis from Cytochrome C to Cytochrome C Oxidase Under Turnover Conditions. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |
| 169 | Structural Basis for Protein Folding and Holding Mediated by Molecular Chaperones. Seibutsu Butsuri, 2019, 59, 197-201. | 0.0 | 0 |
| 170 | Structural Factors for Regulation of Electron Transfer from Cytochrome C to Cytochrome C Oxidase. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 171 | Volume Profile of Protein Determined by Pressure Effects. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2020, 30, 4-11. | 0.1 | 0 |
| 172 | Electron Transfer from Cytochrome C to Cytochrome C Oxidase: Contribution of Hydrophobic â€œBreakwaterâ€•to Electron Transfer. ECS Meeting Abstracts, 2020, MA2020-01, 941-941. | 0.0 | 0 |
| 173 | Integrated bio-metal science: New frontiers of bio-metal science opened with cutting-edge techniques. Biophysics and Physicobiology, 2020, 17, 94-97. | 0.5 | 0 |
| 174 | Nonhaem Iron-based Sensors of Reactive Oxygen and Nitrogen Species. 2-Oxoglutarate-Dependent Oxygenases, 2017, , 179-218. | 0.8 | 0 |
| 175 | Structural and Functional Characterization of Electron Transfer Complex between Cytochrome C and Cytochrome C Oxidase. ECS Meeting Abstracts, 2022, MA2022-01, 983-983. | 0.0 | 0 |