

Takashi Hayashi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

215
papers

5,324
citations

42
h-index

61
g-index

240
ext. papers

5,848
ext. citations

7.3
avg, IF

5.75
L-index

#	Paper	IF	Citations
215	Focusing on a nickel hydrocorphinoid in a protein matrix: methane generation by methyl-coenzyme M reductase with F430 cofactor and its models.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	2
214	Thermally Controlled Construction of Fe-N Active Sites on the Edge of a Graphene Nanoribbon for an Electrocatalytic Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15101-15112	9.5	8
213	Construction of a whole-cell biohybrid catalyst using a Cp*Rh(III)-dithiophosphate complex as a precursor of a metal cofactor. <i>Journal of Inorganic Biochemistry</i> , 2021 , 216, 111352	4.2	5
212	Dynamic Protease Activation on a Multimeric Synthetic Protein Scaffold via Adaptable DNA-Based Recruitment Domains. <i>Angewandte Chemie</i> , 2021 , 133, 11362-11366	3.6	0
211	Dynamic Protease Activation on a Multimeric Synthetic Protein Scaffold via Adaptable DNA-Based Recruitment Domains. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11262-11266	16.4	2
210	Directed Evolution of a Cp*Rh-Linked Biohybrid Catalyst Based on a Screening Platform with Affinity Purification. <i>ChemBioChem</i> , 2021 , 22, 679-685	3.8	5
209	Myoglobins engineered with artificial cofactors serve as artificial metalloenzymes and models of natural enzymes. <i>Dalton Transactions</i> , 2021 , 50, 1940-1949	4.3	10
208	Functional Myoglobin Model Composed of a Strapped Porphyrin/Cyclodextrin Supramolecular Complex with an Overhanging COOH That Increases O/CO Binding Selectivity in Aqueous Solution. <i>Inorganic Chemistry</i> , 2021 , 60, 12392-12404	5.1	0
207	A Supramolecular Assembly of Hemoproteins Formed in a Star-Shaped Structure via Heme-Heme Pocket Interactions. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
206	Thermoresponsive Micellar Assembly Constructed from a Hexameric Hemoprotein Modified with Poly(-isopropylacrylamide) toward an Artificial Light-Harvesting System. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1822-1831	16.4	25
205	Triazolecarbaldehyde Reagents for One-Step N-Terminal Protein Modification. <i>ChemBioChem</i> , 2020 , 21, 1274-1278	3.8	6
204	Construction of a Hexameric Hemoprotein Sheet and Direct Observation of Dynamic Processes of Its Formation. <i>Chemistry Letters</i> , 2020 , 49, 186-190	1.7	3
203	Chiral paddle-wheel diruthenium complexes for asymmetric catalysis. <i>Nature Catalysis</i> , 2020 , 3, 851-858	36.5	18
202	Effect of Molecule-Substrate Interactions on the Adsorption of meso-Dibenzoporphycene Tautomers Studied by Scanning Probe Microscopy and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26759-26768	3.8	3
201	Methane Generation and Reductive Debromination of Benzylic Position by Reconstituted Myoglobin Containing Nickel Tetrahydrocorrin as a Model of Methyl-coenzyme M Reductase. <i>Inorganic Chemistry</i> , 2020 , 59, 11995-12004	5.1	5
200	Incorporation of a Cp*Rh(III)-dithiophosphate Cofactor with Latent Activity into a Protein Scaffold Generates a Biohybrid Catalyst Promoting C(sp)-H Bond Functionalization. <i>Inorganic Chemistry</i> , 2020 , 59, 14457-14463	5.1	8
199	Supramolecular dimerization of a hexameric hemoprotein via multiple pyrene-pyrene interactions. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020 , 24, 259-267	1.8	4

198	Site-Specific Modification of Proteins through N-Terminal Azide Labeling and a Chelation-Assisted CuAAC Reaction. <i>Bioconjugate Chemistry</i> , 2019 , 30, 2427-2434	6.3	9
197	Electrochemical CO reduction by a cobalt bipyridine complex: decrease of an overpotential value derived from monoanionic ligand character of the porphyrinoid species. <i>Chemical Communications</i> , 2019 , 55, 493-496	5.8	13
196	Photoinduced electron transfer within supramolecular hemoprotein co-assemblies and heterodimers containing Fe and Zn porphyrins. <i>Journal of Inorganic Biochemistry</i> , 2019 , 193, 42-51	4.2	5
195	A ring-shaped hemoprotein trimer thermodynamically controlled by the supramolecular heme-heme pocket interaction. <i>Chemical Communications</i> , 2019 , 55, 1544-1547	5.8	6
194	Hemoproteins Reconstituted with Artificial Metal Complexes as Biohybrid Catalysts. <i>Accounts of Chemical Research</i> , 2019 , 52, 945-954	24.3	77
193	Artificially Created Metalloenzyme Consisting of an Organometallic Complex Immobilized to a Protein Matrix 2019 , 307-328		
192	Myoglobin Reconstituted with Ni Tetrahydrocorrin as a Methane-Generating Model of Methyl-coenzyme M Reductase. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13813-13817	16.4	13
191	Myoglobin Reconstituted with Ni Tetrahydrocorrin as a Methane-Generating Model of Methyl-coenzyme M Reductase. <i>Angewandte Chemie</i> , 2019 , 131, 13951-13955	3.6	3
190	Methane generation via intraprotein C β bond cleavage in cytochrome b562 reconstituted with nickel didehydrocorrin. <i>Journal of Organometallic Chemistry</i> , 2019 , 901, 120945	2.3	7
189	Artificial Hemoprotein Assemblies in Development of Nanobiomaterials. <i>Series on Chemistry, Energy and the Environment</i> , 2019 , 71-88	0.2	
188	Light triggers molecular shuttling in rotaxanes: control over proximity and charge recombination. <i>Chemical Science</i> , 2019 , 10, 3846-3853	9.4	14
187	Arginine Residues Provide a Multivalent Effect for Cellular Uptake of a Hemoprotein Assembly. <i>Chemistry Letters</i> , 2019 , 48, 295-298	1.7	2
186	Nonprecious-metal Fe/N/C Catalysts Prepared from Expanded Fe Salen Precursors toward an Efficient Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2018 , 10, 653-653	5.2	1
185	Cavity Size Engineering of a Barrel Protein Generates Efficient Biohybrid Catalysts for Olefin Metathesis. <i>ACS Catalysis</i> , 2018 , 8, 3358-3364	13.1	29
184	A Whole Cell E. coli Display Platform for Artificial Metalloenzymes: Poly(phenylacetylene) Production with a Rhodium Nitrobindin Metalloprotein. <i>ACS Catalysis</i> , 2018 , 8, 2611-2614	13.1	60
183	Bimetallic M/N/C catalysts prepared from expanded metal salen precursors toward an efficient oxygen reduction reaction.. <i>RSC Advances</i> , 2018 , 8, 2892-2899	3.7	9
182	A water-soluble supramolecular complex that mimics the heme/copper hetero-binuclear site of cytochrome oxidase. <i>Chemical Science</i> , 2018 , 9, 1989-1995	9.4	22
181	Preparation and characterization of myoglobin reconstituted with Fe(II) oxaporphyrin: The monoanionic macrocycle provides unique cyanide binding behavior for the ferrous species. <i>Inorganica Chimica Acta</i> , 2018 , 472, 184-191	2.7	2

- 180 Successive energy transfer within multiple photosensitizers assembled in a hexameric hemoprotein scaffold. *Physical Chemistry Chemical Physics*, **2018**, 20, 3200-3209 3.6 8
- 179 Mitochondria-Targeting Polyamine-Protoporphyrin Conjugates for Photodynamic Therapy. *ChemMedChem*, **2018**, 13, 15-19 3.7 12
- 178 Supramolecular Hemoprotein Assembly with a Periodic Structure Showing Heme-Heme Exciton Coupling. *Journal of the American Chemical Society*, **2018**, 140, 10145-10148 16.4 21
- 177 CHAPTER 3: Myoglobin Derivatives Reconstituted with Modified Metal Porphyrinoids as Structural and Functional Models of the Cytochrome P450 Enzymes. *2-Oxoglutarate-Dependent Oxygenases*, **2018**, 63-78 1.8
- 176 Nonprecious-metal Fe/N/C Catalysts Prepared from Expanded Fe Salen Precursors toward an Efficient Oxygen Reduction Reaction. *ChemCatChem*, **2018**, 10, 743-750 5.2 13
- 175 Roles of N- and C-terminal domains in the ligand-binding properties of cytoglobin. *Journal of Inorganic Biochemistry*, **2018**, 179, 1-9 4.2 8
- 174 Synthesis and Characterization of meso-Substituted Cobalt Tetrahydrocorrin and Evaluation of Its Electrocatalytic Behavior Toward CO Reduction and H Evolution. *Inorganic Chemistry*, **2018**, 57, 14644-14652 5.1 8
- 173 Olefin metathesis catalysts embedded in barrel proteins: creating artificial metalloproteins for olefin metathesis. *Beilstein Journal of Organic Chemistry*, **2018**, 14, 2861-2871 2.5 14
- 172 A Heterogeneous Hydrogen-Evolution Catalyst Based on a Mesoporous Organosilica with a Diiron Catalytic Center Modelling [FeFe]-Hydrogenase. *ChemCatChem*, **2018**, 10, 4894-4899 5.2 7
- 171 Redox Potentials of Cobalt Corrinoids with Axial Ligands Correlate with Heterolytic Co-C Bond Dissociation Energies. *Inorganic Chemistry*, **2017**, 56, 1950-1955 5.1 16
- 170 Rab5-regulated endocytosis plays a crucial role in apical extrusion of transformed cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E2327-E2336 11.5 25
- 169 Cobalt tetrahydrocorrins coordinated by imidazolate-like histidine in the heme pocket of horseradish peroxidase. *Journal of Biological Inorganic Chemistry*, **2017**, 22, 695-703 3.7 4
- 168 Enhanced visible light response of a WO₃ photoelectrode with an immobilized fibrous gold nanoparticle assembly using an amyloid- β peptide. *RSC Advances*, **2017**, 7, 1089-1092 3.7 2
- 167 A supramolecular assembly based on an engineered hemoprotein exhibiting a thermal stimulus-driven conversion to a new distinct supramolecular structure. *Chemical Communications*, **2017**, 53, 6879-6882 5.8 12
- 166 Iron-Strapped Porphyrins with Carboxylic Acid Groups Hanging over the Coordination Site: Synthesis, X-ray Characterization, and Dioxygen Binding. *Inorganic Chemistry*, **2017**, 56, 7373-7383 5.1 9
- 165 CuAAC in a Distal Pocket: Metal Active-Template Synthesis of Strapped-Porphyrin [2]Rotaxanes. *Chemistry - A European Journal*, **2017**, 23, 13537-13537 4.8
- 164 meso-Tetraaryl(porphyrinato)cobalt(III)-catalyzed Oxygenation of Disilanes under Aerobic Conditions. *Chemistry Letters*, **2017**, 46, 1807-1809 1.7 4
- 163 A Pyrene-Linked Cavity within a Barrel Protein Promotes an Asymmetric Diels-Alder Reaction. *Angewandte Chemie*, **2017**, 129, 13806-13810 3.6 8

162	Titelbild: A Pyrene-Linked Cavity within a β Barrel Protein Promotes an Asymmetric Diels-Alder Reaction (Angew. Chem. 44/2017). <i>Angewandte Chemie</i> , 2017 , 129, 13719-13719	3.6	
161	CuAAC in a Distal Pocket: Metal Active-Template Synthesis of Strapped-Porphyrin [2]Rotaxanes. <i>Chemistry - A European Journal</i> , 2017 , 23, 13579-13582	4.8	13
160	A Pyrene-Linked Cavity within a β Barrel Protein Promotes an Asymmetric Diels-Alder Reaction. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13618-13622	16.4	25
159	Interdomain flip-flop motion visualized in flavocytochrome cellobiose dehydrogenase using high-speed atomic force microscopy during catalysis. <i>Chemical Science</i> , 2017 , 8, 6561-6565	9.4	21
158	Manganese(V) Porphycene Complex Responsible for Inert C-H Bond Hydroxylation in a Myoglobin Matrix. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18460-18463	16.4	40
157	Catalytic Cyclopropanation by Myoglobin Reconstituted with Iron Porphycene: Acceleration of Catalysis due to Rapid Formation of the Carbene Species. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17265-17268	16.4	85
156	Substitution of an amino acid residue axially coordinating to the heme molecule in hexameric tyrosine-coordinated hemoprotein to enhance peroxidase activity. <i>Journal of Porphyrins and Phthalocyanines</i> , 2017 , 21, 824-831	1.8	1
155	Cofactor-specific Anchoring of Horseradish Peroxidase onto a Polythiophene-modified Electrode. <i>Chemistry Letters</i> , 2017 , 46, 1818-1821	1.7	
154	In Situ Observation of Enhanced Photoinduced Charge Separation in a Gold Nanoparticle Assembly Immobilized on TiO ₂ . <i>ChemistrySelect</i> , 2016 , 1, 5666-5670	1.8	1
153	Photocatalytic Properties of TiO ₂ Composites Immobilized with Gold Nanoparticle Assemblies Using the Streptavidin-Biotin Interaction. <i>Langmuir</i> , 2016 , 32, 6459-67	4	10
152	Oxygen-binding Protein Fiber and Microgel: Supramolecular Myoglobin-Poly(acrylate) Conjugates. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1036-42	4.5	7
151	Crystal Structures and Coordination Behavior of Aqua- and Cyano-Co(III) Tetradehydrocorrins in the Heme Pocket of Myoglobin. <i>Inorganic Chemistry</i> , 2016 , 55, 1287-95	5.1	12
150	Intraprotein transmethylation via a CH ₃ -Co(III) species in myoglobin reconstituted with a cobalt corrinoid complex. <i>Dalton Transactions</i> , 2016 , 45, 3277-84	4.3	25
149	Construction of a hybrid biocatalyst containing a covalently-linked terpyridine metal complex within a cavity of aponitrobindin. <i>Journal of Inorganic Biochemistry</i> , 2016 , 158, 55-61	4.2	29
148	Artificial Diels-Alderase based on the transmembrane protein FhuA. <i>Beilstein Journal of Organic Chemistry</i> , 2016 , 12, 1314-1321	2.5	24
147	Anchoring Cytochrome b562 on a Gold Nanoparticle by a Heme-Heme Pocket Interaction. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 3454-3459	2.3	2
146	Cofactor-specific covalent anchoring of cytochrome b562 on a single-walled carbon nanotube by click chemistry. <i>RSC Advances</i> , 2016 , 6, 65936-65940	3.7	8
145	meso-Dibenzoporphycene has a Large Bathochromic Shift and a Porphycene Framework with an Unusual cis Tautomeric Form. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6227-30	16.4	40

144	Myoglobin-based non-precious metal carbon catalysts for an oxygen reduction reaction. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015 , 19, 510-516	1.8	7
143	A Highly Active Biohybrid Catalyst for Olefin Metathesis in Water: Impact of a Hydrophobic Cavity in a β Barrel Protein. <i>ACS Catalysis</i> , 2015 , 5, 7519-7522	13.1	56
142	meso-Dibenzoporphycene has a Large Bathochromic Shift and a Porphycene Framework with an Unusual cis Tautomeric Form. <i>Angewandte Chemie</i> , 2015 , 127, 6325-6328	3.6	12
141	Energy migration within hexameric hemoprotein reconstituted with Zn porphyrinoid molecules. <i>Chemical Communications</i> , 2015 , 51, 11138-40	5.8	24
140	Artificial hydrogenase: biomimetic approaches controlling active molecular catalysts. <i>Current Opinion in Chemical Biology</i> , 2015 , 25, 133-40	9.7	30
139	Generation of New Artificial Metalloproteins by Cofactor Modification of Native Hemoproteins. <i>Israel Journal of Chemistry</i> , 2015 , 55, 76-84	3.4	27
138	Rhodium-Complex-Linked Hybrid Biocatalyst: Stereo-Controlled Phenylacetylene Polymerization within an Engineered Protein Cavity. <i>ChemCatChem</i> , 2014 , 6, n/a-n/a	5.2	16
137	Enzyme-substrate complex structures of CYP154C5 shed light on its mode of highly selective steroid hydroxylation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 2875-89		15
136	H ₂ O ₂ -dependent substrate oxidation by an engineered diiron site in a bacterial hemerythrin. <i>Chemical Communications</i> , 2014 , 50, 3421-3	5.8	6
135	Co(II)/Co(I) reduction-induced axial histidine-flipping in myoglobin reconstituted with a cobalt tetrahydrocorrin as a methionine synthase model. <i>Chemical Communications</i> , 2014 , 50, 12560-3	5.8	32
134	Photoinduced Hydrogen Evolution Catalyzed by a Synthetic Diiron Dithiolate Complex Embedded within a Protein Matrix. <i>ACS Catalysis</i> , 2014 , 4, 2645-2648	13.1	83
133	Hemoprotein-based supramolecular assembling systems. <i>Current Opinion in Chemical Biology</i> , 2014 , 19, 154-61	9.7	65
132	Heme-Binding Properties of HupD Functioning as a Substrate-Binding Protein in a Heme-Uptake ABC-Transporter System in <i>Listeria monocytogenes</i> . <i>Bulletin of the Chemical Society of Japan</i> , 2014 , 87, 1140-1146	5.1	1
131	Photochemical Property of a Myoglobin π Te Quantum Dot Conjugate Formed by Supramolecular Host π Guest Interactions. <i>Chemistry Letters</i> , 2014 , 43, 1152-1154	1.7	6
130	Artificial Metalloenzymes Containing an Organometallic Active Site 2014 , 305-338		1
129	Fabrication of enzyme-degradable and size-controlled protein nanowires using single particle nano-fabrication technique. <i>Nature Communications</i> , 2014 , 5, 3718	17.4	34
128	Rhodium-Complex-Linked Hybrid Biocatalyst: Stereo-Controlled Phenylacetylene Polymerization within an Engineered Protein Cavity. <i>ChemCatChem</i> , 2014 , 6, 1123-1123	5.2	3
127	Incorporation of modified and artificial cofactors into naturally occurring protein scaffolds. <i>Methods in Molecular Biology</i> , 2014 , 1216, 251-63	1.4	1

126	Photoinduced Electron Transfer of ZnS ₂ /AgInS ₂ Solid-Solution Semiconductor Nanoparticles: Emission Quenching and Photocatalytic Reactions Controlled by Electrostatic Forces. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15667-15676	3.8	16
125	Crystal structure, exogenous ligand binding, and redox properties of an engineered diiron active site in a bacterial hemerythrin. <i>Inorganic Chemistry</i> , 2013 , 52, 13014-20	5.1	8
124	C(sp ³)-H bond hydroxylation catalyzed by myoglobin reconstituted with manganese porphycene. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17282-5	16.4	120
123	Cathodic photocurrent generation from zinc-substituted cytochrome b562 assemblies immobilized on an apocytochrome b562-modified gold electrode. <i>Dalton Transactions</i> , 2013 , 42, 16102-7	4.3	12
122	Supramolecular Linear Assemblies of Cytochrome b 562 Immobilized on a Gold Electrode. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013 , 23, 172-179	3.2	9
121	Generation of Functionalized Biomolecules using Hemoprotein Matrices with Small Protein Cavities for Incorporation of Cofactors 2013 , 87-110		3
120	Complimenting a Metal Complex with Protein Environment toward a New Hybrid Biocatalyst. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2013 , 71, 452-460	0.2	
119	Photocatalytic hydrogen evolution by a diiron hydrogenase model based on a peptide fragment of cytochrome c556 with an attached diiron carbonyl cluster and an attached ruthenium photosensitizer. <i>Journal of Inorganic Biochemistry</i> , 2012 , 108, 159-62	4.2	59
118	Photochemical properties of a myoglobin-CdTe quantum dot conjugate. <i>Chemical Communications</i> , 2012 , 48, 8054-6	5.8	12
117	Reaction pathway and free energy profile for conversion of E-conjugation modes in porphyrin isomer. <i>Journal of Organic Chemistry</i> , 2012 , 77, 8946-55	4.2	2
116	A rhodium complex-linked E-barrel protein as a hybrid biocatalyst for phenylacetylene polymerization. <i>Chemical Communications</i> , 2012 , 48, 9756-8	5.8	72
115	Creation of an artificial metalloprotein with a Hoveyda-Grubbs catalyst moiety through the intrinsic inhibition mechanism of E-chymotrypsin. <i>Chemical Communications</i> , 2012 , 48, 1662-4	5.8	70
114	Fibrous supramolecular hemoprotein assemblies connected with synthetic heme dimer and apohemoprotein dimer. <i>Chemistry and Biodiversity</i> , 2012 , 9, 1684-92	2.5	11
113	Supramolecular assembling systems formed by heme-heme pocket interactions in hemoproteins. <i>Chemical Communications</i> , 2012 , 48, 11714-26	5.8	57
112	Photocurrent Generation from Hierarchical Zinc-Substituted Hemoprotein Assemblies Immobilized on a Gold Electrode. <i>Angewandte Chemie</i> , 2012 , 124, 2682-2685	3.6	6
111	Chemically Programmed Supramolecular Assembly of Hemoprotein and Streptavidin with Alternating Alignment. <i>Angewandte Chemie</i> , 2012 , 124, 3884-3887	3.6	7
110	Photocurrent generation from hierarchical zinc-substituted hemoprotein assemblies immobilized on a gold electrode. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2628-31	16.4	42
109	Chemically programmed supramolecular assembly of hemoprotein and streptavidin with alternating alignment. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3818-21	16.4	66

108	Reaction of cobalt porphycene with hydride reagents: spectroscopic detection of Co ^{III} porphycene species and formation of Co ^{II} R ₃ porphycene species. <i>Journal of Porphyrins and Phthalocyanines</i> , 2012 , 16, 616-625	1.8	3
107	Iron: Heme Proteins & Dioxygen Transport & Storage Based in part on the article Iron: Heme Proteins & Dioxygen Transport by Harold M. Goff which appeared in the Encyclopedia of Inorganic Chemistry, First Edition. 2011 ,		1
106	Precise design of artificial cofactors for enhancing peroxidase activity of myoglobin: myoglobin mutant H64D reconstituted with a "single-winged cofactor" is equivalent to native horseradish peroxidase in oxidation activity. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 2491-9	4.5	44
105	Investigation of aromaticity and photophysical properties in [18]/[20]porphycene derivatives. <i>Chemistry - A European Journal</i> , 2011 , 17, 7882-9	4.8	22
104	A hydrogenase model system based on the sequence of cytochrome c: photochemical hydrogen evolution in aqueous media. <i>Chemical Communications</i> , 2011 , 47, 8229-31	5.8	112
103	A chemically-controlled supramolecular protein polymer formed by a myoglobin-based self-assembly system. <i>Chemical Science</i> , 2011 , 2, 1033	9.4	45
102	Crystal structure and spectroscopic studies of a stable mixed-valent state of the hemerythrin-like domain of a bacterial chemotaxis protein. <i>Inorganic Chemistry</i> , 2011 , 50, 4892-9	5.1	17
101	Thermal Isomerization of N-Bridged Cobalt Corrole Complexes through a Transiently Formed Axial Carbenoid. <i>Organometallics</i> , 2011 , 30, 1869-1873	3.8	18
100	Preparation and reactivity of a tetranuclear Fe(II) core in the metallothionein β domain. <i>Journal of Inorganic Biochemistry</i> , 2011 , 105, 702-8	4.2	9
99	Supramolecular protein-protein complexation via specific interaction between glycosylated myoglobin and sugar-binding protein. <i>Supramolecular Chemistry</i> , 2010 , 22, 57-64	1.8	3
98	23 Hemoproteins Reconstituted with Artificially Created Hemes. <i>Handbook of Porphyrin Science</i> , 2010 , 1-69	0.3	3
97	Supramolecular hemoprotein-gold nanoparticle conjugates. <i>Chemical Communications</i> , 2010 , 46, 9107-9	5.8	26
96	DNA-Binding Hemoproteins Tethering Polyamine Interface. <i>Bulletin of the Chemical Society of Japan</i> , 2010 , 83, 375-377	5.1	3
95	1SE0920 Molecular Mechanism of Water Expelling System in the Initial Step of Cytochrome P450cam Catalytic Cycle(1SE Recent Advances in Structural Analyses of Functional Mechanisms Based on Dynamics of Biological Reactions, The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, 53-58	0	
94	3P113 Substrate binding excludes water cluster from active site of cytochrome P450cam - mutation analysis of water expelling system(Heme proteins, The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S164	0	
93	Electron transfer and oxidase activities in reconstituted hemoproteins with chemically modified cofactors. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009 , 13, 1082-1089	1.8	7
92	Self-Assembly of One- and Two-Dimensional Hemoprotein Systems by Polymerization through Heme-Heme Pocket Interactions. <i>Angewandte Chemie</i> , 2009 , 121, 1297-1300	3.6	12
91	Self-assembly of one- and two-dimensional hemoprotein systems by polymerization through heme-heme pocket interactions. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1271-4	16.4	61

90	Thermodynamically controlled supramolecular polymerization of cytochrome b 562. <i>Biopolymers</i> , 2009 , 91, 194-200	2.2	25
89	Substrate binding induces structural changes in cytochrome P450cam. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009 , 65, 80-3		10
88	Meso-unsubstituted iron corrole in hemoproteins: remarkable differences in effects on peroxidase activities between myoglobin and horseradish peroxidase. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15124-5	16.4	58
87	A role of the heme-7-propionate side chain in cytochrome P450cam as a gate for regulating the access of water molecules to the substrate-binding site. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1398-400	16.4	36
86	3P-076 Mechanism of the water exclusion from the active site of cytochrome P450cam(Heme proteins,The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S163-S164		
85	3P-075 Substrate d-camphor binding induces structural change of cytochrome P450cam(Heme proteins,The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S163 ^o		
84	Evaluation of the functional role of the heme-6-propionate side chain in cytochrome P450cam. <i>Journal of the American Chemical Society</i> , 2008 , 130, 432-3	16.4	19
83	Photocatalytic hydrogen generation using a protein-coated photosensitizer with anionic patches and a monocationic electron mediator. <i>Chemical Communications</i> , 2008 , 3684-6	5.8	25
82	A supramolecular receptor of diatomic molecules (O ₂ , CO, NO) in aqueous solution. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8006-15	16.4	38
81	Isolable Iron(II)Porphycene Derivative Stabilized by Introduction of Trifluoromethyl Groups on the Ligand Framework. <i>Bulletin of the Chemical Society of Japan</i> , 2008 , 81, 76-83	5.1	8
80	1P-121 Roles of Asp297 in the vicinity of the active site of cytochrome P450cam in substrate binding(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S40 ^o		
79	Effect of peripheral trifluoromethyl groups in artificial iron porphycene cofactor on ligand binding properties of myoglobin. <i>Journal of Inorganic Biochemistry</i> , 2008 , 102, 166-73	4.2	21
78	Structure and ligand binding properties of myoglobins reconstituted with monodepropionated heme: functional role of each heme propionate side chain. <i>Biochemistry</i> , 2007 , 46, 9406-16	3.2	41
77	Porphyrinoid chemistry in hemoprotein matrix: detection and reactivities of iron(IV)-oxo species of porphycene incorporated into horseradish peroxidase. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12906-7	16.4	59
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75	A structural isomer of nonaromatic porphyrin: preparation of 20pi-conjugated porphycene based on electronic perturbation. <i>Organic Letters</i> , 2007 , 9, 5303-6	6.2	23
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