

Takashi Hayashi

List of Publications by Year in descending order

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214
papers

6,376
citations

57758

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98798

67
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all docs

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docs citations

240
times ranked

4193
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 51, 1629-1639.	38.1	11
2	DNA-Mediated Protein Shuttling between Coacervate-Based Artificial Cells. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2
3	DNA-Mediated Protein Shuttling between Coacervate-Based Artificial Cells. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	22
4	Reactivity of Myoglobin Reconstituted with Cobalt Corrole toward Hydrogen Peroxide. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4829.	4.1	4
5	Directed Evolution of a Cp*Rh(III)-Linked Biohybrid Catalyst Based on a Screening Platform with Affinity Purification. <i>ChemBioChem</i> , 2021, 22, 679-685.	2.6	10
6	Myoglobins engineered with artificial cofactors serve as artificial metalloenzymes and models of natural enzymes. <i>Dalton Transactions</i> , 2021, 50, 1940-1949.	3.3	32
7	Thermally Controlled Construction of Fe-N _x 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.	8.0	25
8	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.	3.5	8
9	Dynamic Protease Activation on a Multimeric Synthetic Protein Scaffold via Adaptable DNA-Based Recruitment Domains. <i>Angewandte Chemie</i> , 2021, 133, 11362-11366.	2.0	2
10	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.	13.8	5
11	Functional Myoglobin Model Composed of a Strapped Porphyrin/Cyclodextrin Supramolecular Complex with an Overhanging COOH That Increases O ₂ /CO Binding Selectivity in Aqueous Solution. <i>Inorganic Chemistry</i> , 2021, 60, 12392-12404.	4.0	4
12	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, 1012.	4.1	3
13	Electrocatalytic Hydrogen Evolution Reaction Promoted by Co/N/C Catalysts with Co-N _x Active Sites Derived from Precursors Forming N-Doped Graphene Nanoribbons. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 2898-2905.	3.2	3
14	One-Step Preparation of Fe/N/C Single-Atom Catalysts Containing Fe-N ₄ Sites from an Iron Complex Precursor with 5,6,7,8-Tetraphenyl-1,12-diazatriphenylene Ligands. <i>Chemistry - A European Journal</i> , 2021, , .	3.3	2
15	Supramolecular dimerization of a hexameric hemoprotein <i>via</i> multiple pyrene-pyrene interactions. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020, 24, 259-267.	0.8	7
16	Thermoresponsive Micellar Assembly Constructed from a Hexameric Hemoprotein Modified with Poly(<i>N</i> -isopropylacrylamide) toward an Artificial Light-Harvesting System. <i>Journal of the American Chemical Society</i> , 2020, 142, 1822-1831.	13.7	57
17	Triazolecarbaldehyde Reagents for One-Step N-Terminal Protein Modification. <i>ChemBioChem</i> , 2020, 21, 1274-1278.	2.6	15
18	Construction of a Hexameric Hemoprotein Sheet and Direct Observation of Dynamic Processes of Its Formation. <i>Chemistry Letters</i> , 2020, 49, 186-190.	1.3	7

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19	Chiral paddle-wheel diruthenium complexes for asymmetric catalysis. <i>Nature Catalysis</i> , 2020, 3, 851-858.	34.4	47
20	Effect of Molecule-Substrate Interactions on the Adsorption of <i>meso</i> -Dibenzoporphycene Tautomers Studied by Scanning Probe Microscopy and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26759-26768.	3.1	6
21	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.	4.0	13
22	Incorporation of a Cp*Rh(III)-dithiophosphate Cofactor with Latent Activity into a Protein Scaffold Generates a Biohybrid Catalyst Promoting C(sp ²)-H Bond Functionalization. <i>Inorganic Chemistry</i> , 2020, 59, 14457-14463.	4.0	12
23	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.	13.8	22
24	Myoglobin Reconstituted with Ni Tetrahydrocorrin as a Methane-Generating Model of Methyl-coenzyme M Reductase. <i>Angewandte Chemie</i> , 2019, 131, 13951-13955.	2.0	5
25	Methane generation via intraprotein C-S bond cleavage in cytochrome b562 reconstituted with nickel didehydrocorrin. <i>Journal of Organometallic Chemistry</i> , 2019, 901, 120945.	1.8	13
26	Site-Specific Modification of Proteins through N-Terminal Azide Labeling and a Chelation-Assisted CuAAC Reaction. <i>Bioconjugate Chemistry</i> , 2019, 30, 2427-2434.	3.6	16
27	Electrochemical CO ₂ 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.	4.1	17
28	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.	3.5	8
29	A ring-shaped hemoprotein trimer thermodynamically controlled by the supramolecular heme-heme pocket interaction. <i>Chemical Communications</i> , 2019, 55, 1544-1547.	4.1	13
30	Hemoproteins Reconstituted with Artificial Metal Complexes as Biohybrid Catalysts. <i>Accounts of Chemical Research</i> , 2019, 52, 945-954.	15.6	118
31	Artificially Created Metalloenzyme Consisting of an Organometallic Complex Immobilized to a Protein Matrix. , 2019, , 307-328.		0
32	Light triggers molecular shuttling in rotaxanes: control over proximity and charge recombination. <i>Chemical Science</i> , 2019, 10, 3846-3853.	7.4	19
33	Arginine Residues Provide a Multivalent Effect for Cellular Uptake of a Hemoprotein Assembly. <i>Chemistry Letters</i> , 2019, 48, 295-298.	1.3	7
34	Artificial Hemoprotein Assemblies in Development of Nanobiomaterials. <i>Series on Chemistry, Energy and the Environment</i> , 2019, , 71-88.	0.3	0
35	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.	3.7	2
36	Cavity Size Engineering of a β -Barrel Protein Generates Efficient Biohybrid Catalysts for Olefin Metathesis. <i>ACS Catalysis</i> , 2018, 8, 3358-3364.	11.2	39

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37	A Whole Cell <i>E. coli</i> Display Platform for Artificial Metalloenzymes: Poly(phenylacetylene) Production with a Rhodium-Nitrobindin Metalloprotein. <i>ACS Catalysis</i> , 2018, 8, 2611-2614.	11.2	71
38	Bimetallic M/N/C catalysts prepared from β -expanded metal salen precursors toward an efficient oxygen reduction reaction. <i>RSC Advances</i> , 2018, 8, 2892-2899.	3.6	15
39	A water-soluble supramolecular complex that mimics the heme/copper hetero-binuclear site of cytochrome <i>c</i> oxidase. <i>Chemical Science</i> , 2018, 9, 1989-1995.	7.4	29
40	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.	2.4	3
41	Successive energy transfer within multiple photosensitizers assembled in a hexameric hemoprotein scaffold. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3200-3209.	2.8	11
42	Mitochondria-Targeting Polyamine-Protoporphyrin Conjugates for Photodynamic Therapy. <i>ChemMedChem</i> , 2018, 13, 15-19.	3.2	19
43	Nonprecious-metal Fe/N/C Catalysts Prepared from β -Expanded Fe Salen Precursors toward an Efficient Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2018, 10, 743-750.	3.7	17
44	Roles of N- and C-terminal domains in the ligand-binding properties of cytoglobin. <i>Journal of Inorganic Biochemistry</i> , 2018, 179, 1-9.	3.5	15
45	Synthesis and Characterization of <i>meso</i> -Substituted Cobalt Tetrahydrocorrin and Evaluation of Its Electrocatalytic Behavior Toward CO_2 Reduction and H_2 Evolution. <i>Inorganic Chemistry</i> , 2018, 57, 14644-14652.	4.0	13
46	Olefin metathesis catalysts embedded in β -barrel proteins: creating artificial metalloproteins for olefin metathesis. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 2861-2871.	2.2	16
47	A Heterogeneous Hydrogen-Evolution Catalyst Based on a Mesoporous Organosilica with a Diiron Catalytic Center Modelling [FeFe]-Hydrogenase. <i>ChemCatChem</i> , 2018, 10, 4894-4899.	3.7	10
48	Supramolecular Hemoprotein Assembly with a Periodic Structure Showing Heme-Heme Exciton Coupling. <i>Journal of the American Chemical Society</i> , 2018, 140, 10145-10148.	13.7	30
49	Myoglobin Derivatives Reconstituted with Modified Metal Porphyrinoids as Structural and Functional Models of the Cytochrome P450 Enzymes. <i>2-Oxoglutarate-Dependent Oxygenases</i> , 2018, , 63-78.	0.8	0
50	Redox Potentials of Cobalt Corrinoids with Axial Ligands Correlate with Heterolytic Co-C Bond Dissociation Energies. <i>Inorganic Chemistry</i> , 2017, 56, 1950-1955.	4.0	22
51	Rab5-regulated endocytosis plays a crucial role in apical extrusion of transformed cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2327-E2336.	7.1	40
52	Cobalt tetrahydrocorrins coordinated by imidazolate-like histidine in the heme pocket of horseradish peroxidase. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 695-703.	2.6	6
53	Enhanced visible light response of a WO_3 photoelectrode with an immobilized fibrous gold nanoparticle assembly using an amyloid- β peptide. <i>RSC Advances</i> , 2017, 7, 1089-1092.	3.6	2
54	A supramolecular assembly based on an engineered hemoprotein exhibiting a thermal stimulus-driven conversion to a new distinct supramolecular structure. <i>Chemical Communications</i> , 2017, 53, 6879-6882.	4.1	17

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55	Iron-Strapped Porphyrins with Carboxylic Acid Groups Hanging over the Coordination Site: Synthesis, X-ray Characterization, and Dioxygen Binding. <i>Inorganic Chemistry</i> , 2017, 56, 7373-7383.	4.0	9
56	CuAAC in a Distal Pocket: Metal Active-Template Synthesis of Strapped-Porphyrin [2]Rotaxanes. <i>Chemistry - A European Journal</i> , 2017, 23, 13537-13537.	3.3	0
57	<i>meso</i> -Tetraaryl(porphyrinato)cobalt(III)-catalyzed Oxygenation of Disilanes under Aerobic Conditions. <i>Chemistry Letters</i> , 2017, 46, 1807-1809.	1.3	4
58	A Pyrene-Linked Cavity within a β -Barrel Protein Promotes an Asymmetric Diels-Alder Reaction. <i>Angewandte Chemie</i> , 2017, 129, 13806-13810.	2.0	9
59	Titelbild: A Pyrene-Linked Cavity within a β -Barrel Protein Promotes an Asymmetric Diels-Alder Reaction (<i>Angew. Chem.</i> 44/2017). <i>Angewandte Chemie</i> , 2017, 129, 13719-13719.	2.0	0
60	CuAAC in a Distal Pocket: Metal Active-Template Synthesis of Strapped-Porphyrin [2]Rotaxanes. <i>Chemistry - A European Journal</i> , 2017, 23, 13579-13582.	3.3	15
61	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.	13.8	26
62	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.	7.4	26
63	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.	13.7	60
64	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.	13.7	110
65	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.	0.8	3
66	Cofactor-specific Anchoring of Horseradish Peroxidase onto a Polythiophene-modified Electrode. <i>Chemistry Letters</i> , 2017, 46, 1818-1821.	1.3	0
67	Artificial Diels-Alderase based on the transmembrane protein FhuA. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 1314-1321.	2.2	33
68	Anchoring Cytochrome <i>b₅₆₂</i> on a Gold Nanoparticle by a Heme-Heme Pocket Interaction. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3454-3459.	2.0	3
69	Cofactor-specific covalent anchoring of cytochrome <i>b₅₆₂</i> on a single-walled carbon nanotube by click chemistry. <i>RSC Advances</i> , 2016, 6, 65936-65940.	3.6	9
70	<i>In Situ</i> Observation of Enhanced Photoinduced Charge Separation in a Gold Nanoparticle Assembly Immobilized on TiO ₂ . <i>ChemistrySelect</i> , 2016, 1, 5666-5670.	1.5	1
71	Photocatalytic Properties of TiO ₂ Composites Immobilized with Gold Nanoparticle Assemblies Using the Streptavidin-Biotin Interaction. <i>Langmuir</i> , 2016, 32, 6459-6467.	3.5	14
72	Oxygen-Binding Protein Fiber and Microgel: Supramolecular Myoglobin-Poly(acrylate) Conjugates. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1036-1042.	3.3	10

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73	Crystal Structures and Coordination Behavior of Aqua- and Cyano-Co(III) Tetradehydrocorrins in the Heme Pocket of Myoglobin. <i>Inorganic Chemistry</i> , 2016, 55, 1287-1295.	4.0	16
74	Intraprotein transmethylation via a CH ₃ Co(III) species in myoglobin reconstituted with a cobalt corrinoid complex. <i>Dalton Transactions</i> , 2016, 45, 3277-3284.	3.3	31
75	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.	3.5	34
76	Energy migration within hexameric hemoprotein reconstituted with Zn porphyrinoid molecules. <i>Chemical Communications</i> , 2015, 51, 11138-11140.	4.1	30
77	Artificial hydrogenase: biomimetic approaches controlling active molecular catalysts. <i>Current Opinion in Chemical Biology</i> , 2015, 25, 133-140.	6.1	36
78	Generation of New Artificial Metalloproteins by Cofactor Modification of Native Hemoproteins. <i>Israel Journal of Chemistry</i> , 2015, 55, 76-84.	2.3	32
79	<i>meso</i> -Dibenzoporphycene has a Large Bathochromic Shift and a Porphycene Framework with an Unusual <i>cis</i> Tautomeric Form. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6227-6230.	13.8	46
80	Myoglobin-based non-precious metal carbon catalysts for an oxygen reduction reaction. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015, 19, 510-516.	0.8	7
81	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.	11.2	68
82	Fabrication of enzyme-degradable and size-controlled protein nanowires using single particle nano-fabrication technique. <i>Nature Communications</i> , 2014, 5, 3718.	12.8	38
83	Rhodium-Complex-Linked Hybrid Biocatalyst: Stereo-Controlled Phenylacetylene Polymerization within an Engineered Protein Cavity. <i>ChemCatChem</i> , 2014, 6, 1123-1123.	3.7	4
84	Rhodium-Complex-Linked Hybrid Biocatalyst: Stereo-Controlled Phenylacetylene Polymerization within an Engineered Protein Cavity. <i>ChemCatChem</i> , 2014, 6, 1229-1235.	3.7	32
85	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, 2875-2889.	2.5	19
86	H ₂ O ₂ -dependent substrate oxidation by an engineered diiron site in a bacterial hemerythrin. <i>Chemical Communications</i> , 2014, 50, 3421-3423.	4.1	9
87	Co(II)/Co(I) reduction-induced axial histidine-flipping in myoglobin reconstituted with a cobalt tetradehydrocorrin as a methionine synthase model. <i>Chemical Communications</i> , 2014, 50, 12560-12563.	4.1	39
88	Photoinduced Hydrogen Evolution Catalyzed by a Synthetic Diiron Dithiolate Complex Embedded within a Protein Matrix. <i>ACS Catalysis</i> , 2014, 4, 2645-2648.	11.2	92
89	Hemoprotein-based supramolecular assembling systems. <i>Current Opinion in Chemical Biology</i> , 2014, 19, 154-161.	6.1	76
90	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.	3.2	2

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91	Photochemical Property of a Myoglobin–CdTe Quantum Dot Conjugate Formed by Supramolecular Host–Guest Interactions. <i>Chemistry Letters</i> , 2014, 43, 1152-1154.	1.3	7
92	Incorporation of Modified and Artificial Cofactors into Naturally Occurring Protein Scaffolds. <i>Methods in Molecular Biology</i> , 2014, 1216, 251-263.	0.9	2
93	Photoinduced Electron Transfer of ZnS–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.	3.1	18
94	Crystal Structure, Exogenous Ligand Binding, and Redox Properties of an Engineered Diiron Active Site in a Bacterial Hemerythrin. <i>Inorganic Chemistry</i> , 2013, 52, 13014-13020.	4.0	10
95	C(sp ³)–H Bond Hydroxylation Catalyzed by Myoglobin Reconstituted with Manganese Porphycene. <i>Journal of the American Chemical Society</i> , 2013, 135, 17282-17285.	13.7	140
96	Cathodic photocurrent generation from zinc-substituted cytochrome b562 assemblies immobilized on an apocytochrome b562-modified gold electrode. <i>Dalton Transactions</i> , 2013, 42, 16102.	3.3	12
97	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.	3.7	9
98	(Invited) Supramolecular Porphyrin Arrays Mediated by Hemoprotein Matrix. <i>ECS Meeting Abstracts</i> , 2013, , .	0.0	0
99	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.	0.1	0
100	Reaction of cobalt porphycene with hydride reagents: spectroscopic detection of Co–H porphycene species and formation of Co–SnR ₃ porphycene species. <i>Journal of Porphyrins and Phthalocyanines</i> , 2012, 16, 616-625.	0.8	4
101	Photochemical properties of a myoglobin–CdTe quantum dot conjugate. <i>Chemical Communications</i> , 2012, 48, 8054.	4.1	13
102	Reaction Pathway and Free Energy Profile for Conversion of π -Conjugation Modes in Porphyrin Isomer. <i>Journal of Organic Chemistry</i> , 2012, 77, 8946-8955.	3.2	2
103	A rhodium complex-linked β -barrel protein as a hybrid biocatalyst for phenylacetylene polymerization. <i>Chemical Communications</i> , 2012, 48, 9756.	4.1	78
104	Creation of an artificial metalloprotein with a Hoveyda–Grubbs catalyst moiety through the intrinsic inhibition mechanism of β -chymotrypsin. <i>Chemical Communications</i> , 2012, 48, 1662.	4.1	75
105	Fibrous Supramolecular Hemoprotein Assemblies Connected with Synthetic Heme Dimer and Apohemoprotein Dimer. <i>Chemistry and Biodiversity</i> , 2012, 9, 1684-1692.	2.1	11
106	Supramolecular assembling systems formed by heme–heme pocket interactions in hemoproteins. <i>Chemical Communications</i> , 2012, 48, 11714.	4.1	68
107	Photocurrent Generation from Hierarchical Zinc–Substituted Hemoprotein Assemblies Immobilized on a Gold Electrode. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2628-2631.	13.8	45
108	Chemically Programmed Supramolecular Assembly of Hemoprotein and Streptavidin with Alternating Alignment. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3818-3821.	13.8	72

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109	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, 159-162.	3.5	63
110	A hydrogenase model system based on the sequence of cytochrome c: photochemical hydrogen evolution in aqueous media. <i>Chemical Communications</i> , 2011, 47, 8229.	4.1	121
111	A chemically-controlled supramolecular protein polymer formed by a myoglobin-based self-assembly system. <i>Chemical Science</i> , 2011, 2, 1033.	7.4	52
112	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, 4892-4899.	4.0	20
113	Thermal Isomerization of N-Bridged Cobalt Corrole Complexes through a Transiently Formed Axial Carbenoid. <i>Organometallics</i> , 2011, 30, 1869-1873.	2.3	18
114	Precise Design of Artificial Cofactors for Enhancing Peroxidase Activity of Myoglobin: Myoglobin Mutant H64D Reconstituted with a "Single-Winged Cofactor" Equivalent to Native Horseradish Peroxidase in Oxidation Activity. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2491-2499.	3.3	48
115	Investigation of Aromaticity and Photophysical Properties in [18]/[20] Porphycene Derivatives. <i>Chemistry - A European Journal</i> , 2011, 17, 7882-7889.	3.3	23
116	Preparation and reactivity of a tetranuclear Fe(II) core in the metallothionein $\hat{\pm}$ -domain. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 702-708.	3.5	9
117	DNA-Binding Hemoproteins Tethering Polyamine Interface. <i>Bulletin of the Chemical Society of Japan</i> , 2010, 83, 375-377.	3.2	3
118	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) <i>Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 3</i> <i>Seibutsu Butsuri</i> , 2010, 50, S3.	0.1	0
119	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) <i>Tj ETQq1 1 0.784314ogBT/Over</i>	0.1	0
120	Supramolecular protein-protein complexation via specific interaction between glycosylated myoglobin and sugar-binding protein. <i>Supramolecular Chemistry</i> , 2010, 22, 57-64.	1.2	3
121	Supramolecular hemoprotein-gold nanoparticle conjugates. <i>Chemical Communications</i> , 2010, 46, 9107.	4.1	28
122	Electron transfer and oxidase activities in reconstituted hemoproteins with chemically modified cofactors. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009, 13, 1082-1089.	0.8	9
123	Self-Assembly of One- and Two-Dimensional Hemoprotein Systems by Polymerization through Heme-Heme Pocket Interactions. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1271-1274.	13.8	66
124	Thermodynamically controlled supramolecular polymerization of cytochrome c ₅₆₂ . <i>Biopolymers</i> , 2009, 91, 194-200.	2.4	26
125	Substrate binding induces structural changes in cytochrome P450cam. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 80-83.	0.7	11
126	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, 15124-15125.	13.7	69

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127	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, 1398-1400.	13.7	44
128	3P-076 Mechanism of the water exclusion from the active site of cytochrome P450cam(Heme) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 S163-S164.	0.1	0
129	3P-075 Substrate d-camphor binding induces structural change of cytochrome P450cam(Heme) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 70	0.1	0
130	Effect of peripheral trifluoromethyl groups in artificial iron porphycene cofactor on ligand binding properties of myoglobin. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 166-173.	3.5	23
131	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, 432-433.	13.7	20
132	Photocatalytic hydrogen generation using a protein-coated photosensitizer with anionic patches and a monocationic electron mediator. <i>Chemical Communications</i> , 2008, , 3684.	4.1	27
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