

Takashi Hayashi

List of Publications by Year in descending order

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6,376
citations

57758

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67
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240
all docs

240
docs citations

240
times ranked

4193
citing authors

#	ARTICLE	IF	CITATIONS
1	New Functionalization of Myoglobin by Chemical Modification of Heme-Propionates. <i>Accounts of Chemical Research</i> , 2002, 35, 35-43.	15.6	200
2	Molecular modelling of electron transfer systems by noncovalently linked porphyrin-acceptor pairing. <i>Chemical Society Reviews</i> , 1997, 26, 355-364.	38.1	186
3	Pentacoordinate anionic bis(siliconates) containing a fluorine bridge between two silicon atoms. Synthesis, solid-state structures, and dynamic behavior in solution. <i>Organometallics</i> , 1992, 11, 2099-2114.	2.3	183
4	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
5	Blue Myoglobin Reconstituted with an Iron Porphycene Shows Extremely High Oxygen Affinity. <i>Journal of the American Chemical Society</i> , 2002, 124, 11226-11227.	13.7	128
6	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
7	Hemoproteins Reconstituted with Artificial Metal Complexes as Biohybrid Catalysts. <i>Accounts of Chemical Research</i> , 2019, 52, 945-954.	15.6	118
8	Supramolecular Hemoprotein Linear Assembly by Successive Interprotein Heme-Heme Pocket Interactions. <i>Journal of the American Chemical Society</i> , 2007, 129, 10326-10327.	13.7	115
9	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
10	Peroxidase Activity of Myoglobin Is Enhanced by Chemical Mutation of Heme-Propionates. <i>Journal of the American Chemical Society</i> , 1999, 121, 7747-7750.	13.7	103
11	Ligand Binding Properties of Myoglobin Reconstituted with Iron Porphycene: An Unusual O ₂ Binding Selectivity against CO Binding. <i>Journal of the American Chemical Society</i> , 2004, 126, 16007-16017.	13.7	94
12	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
13	Crystal Structure and Peroxidase Activity of Myoglobin Reconstituted with Iron Porphycene. <i>Inorganic Chemistry</i> , 2006, 45, 10530-10536.	4.0	89
14	Iron Porphyrin-Cyclodextrin Supramolecular Complex as a Functional Model of Myoglobin in Aqueous Solution. <i>Inorganic Chemistry</i> , 2006, 45, 4448-4460.	4.0	84
15	Hybridization of Modified-Heme Reconstitution and Distal Histidine Mutation to Functionalize Sperm Whale Myoglobin. <i>Journal of the American Chemical Society</i> , 2004, 126, 436-437.	13.7	79
16	A rhodium complex-linked β -barrel protein as a hybrid biocatalyst for phenylacetylene polymerization. <i>Chemical Communications</i> , 2012, 48, 9756.	4.1	78
17	Hemoprotein-based supramolecular assembling systems. <i>Current Opinion in Chemical Biology</i> , 2014, 19, 154-161.	6.1	76
18	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

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19	Novel pentacoordinate anionic silicate, [o-C ₆ H ₄ (SiPhF ₂) ₂ F]-K ⁺ ·18-crown-6, containing a bent fluoride bridge between two silicon atoms. <i>Journal of the American Chemical Society</i> , 1990, 112, 2422-2424.	13.7	73
20	Chemically Programmed Supramolecular Assembly of Hemoprotein and Streptavidin with Alternating Alignment. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3818-3821.	13.8	72
21	Electrochemical reactions mediated by vitamin B12 derivatives in organic solvents. <i>Coordination Chemistry Reviews</i> , 2000, 198, 21-37.	18.8	71
22	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
23	Cobaltporphycenes as Catalysts. The Oxidation of Vinyl Ethers via the Formation and Dissociation of Cobalt-Carbon Bonds. <i>Organometallics</i> , 2001, 20, 3074-3078.	2.3	69
24	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
25	Supramolecular assembling systems formed by heme-heme pocket interactions in hemoproteins. <i>Chemical Communications</i> , 2012, 48, 11714.	4.1	68
26	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
27	Specific molecular recognition via multipoint hydrogen bonding ubiquinone analogs - porphyrin having four convergent hydroxyl groups pairing. <i>Journal of the American Chemical Society</i> , 1993, 115, 2049-2051.	13.7	67
28	Anion complexation by bidentate Lewis acidic hosts, ortho-bis(fluorosilyl) benzenes. <i>Journal of Organometallic Chemistry</i> , 1996, 506, 85-91.	1.8	66
29	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, 12906-12907.	13.7	66
30	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
31	Chiral recognition and chiral sensing using zinc porphyrin dimers. <i>Tetrahedron</i> , 2002, 58, 2803-2811.	1.9	64
32	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
33	Molecular Recognition of Ubiquinone Analogues. Specific Interaction between Quinone and Functional Porphyrin via Multiple Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 1997, 119, 7281-7290.	13.7	61
34	Artificial Protein-Protein Complexation between a Reconstituted Myoglobin and Cytochrome c. <i>Journal of the American Chemical Society</i> , 1998, 120, 4910-4915.	13.7	61
35	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
36	Photoinduced Singlet Electron Transfer in a Complex Formed from Zinc Myoglobin and Methyl Viologen: Artificial Recognition by a Chemically Modified Porphyrin. <i>Journal of the American Chemical Society</i> , 1995, 117, 11606-11607.	13.7	59

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37	Molecular recognition of β -diamines by metalloporphyrin dimer. <i>Tetrahedron Letters</i> , 1997, 38, 1603-1606.	1.4	58
38	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
39	Dynamic molecular recognition in a multifunctional porphyrin and a ubiquinone analog. <i>Journal of the American Chemical Society</i> , 1993, 115, 12210-12211.	13.7	55
40	Residues in the Distal Heme Pocket of Neuroglobin. <i>Journal of Biological Chemistry</i> , 2004, 279, 5886-5893.	3.4	55
41	Synthesis, Structure, and Chemical Property of the First Fluorine-Containing Porphycene. <i>Organic Letters</i> , 2003, 5, 2845-2848.	4.6	53
42	A chemically-controlled supramolecular protein polymer formed by a myoglobin-based self-assembly system. <i>Chemical Science</i> , 2011, 2, 1033.	7.4	52
43	Precise Design of Artificial Cofactors for Enhancing Peroxidase Activity of Myoglobin: Myoglobin Mutant H64D Reconstituted with a β -Winged Cofactor's Equivalent to Native Horseradish Peroxidase in Oxidation Activity. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2491-2499.	3.3	48
44	Reductive Activation of Dioxygen by a Myoglobin Reconstituted with a Flavohemin. <i>Journal of the American Chemical Society</i> , 2002, 124, 11234-11235.	13.7	47
45	Chiral paddle-wheel diruthenium complexes for asymmetric catalysis. <i>Nature Catalysis</i> , 2020, 3, 851-858.	34.4	47
46	<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
47	A Supramolecular Receptor of Diatomic Molecules (O_2 , CO, NO) in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2008, 130, 8006-8015.	13.7	45
48	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
49	An Extremely Long-Lived Singlet 4,4-Dimethoxy-3,5-diphenylpyrazolidine-3,5-diyl Derivative: A Notable Nitrogen-Atom Effect on Intra- and Intermolecular Reactivity. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7828-7831.	13.8	44
50	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
51	Iron Twin-Coronet Porphyrins as Models of Myoglobin and Hemoglobin: Amphibious Electrostatic Effects of Overhanging Hydroxyl Groups for Successful CO/O ₂ Discrimination. <i>Chemistry - A European Journal</i> , 2003, 9, 862-870.	3.3	43
52	Structure and Ligand Binding Properties of Myoglobins Reconstituted with Monodepropionated Heme: Functional Role of Each Heme Propionate Side Chain. <i>Biochemistry</i> , 2007, 46, 9406-9416.	2.5	42
53	Preparation and O ₂ Binding Study of Myoglobin Having a Cobalt Porphycene. <i>Inorganic Chemistry</i> , 2005, 44, 9391-9396.	4.0	40
54	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

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55	Unusual Ligand Discrimination by a Myoglobin Reconstituted with a Hydrophobic Domain-Linked Heme. <i>Journal of the American Chemical Society</i> , 2005, 127, 56-57.	13.7	39
56	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, 12560-12563.	4.1	39
57	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
58	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
59	Electroorganic chemistry. 118. Electroreductive intermolecular coupling of ketones with olefins. <i>Journal of Organic Chemistry</i> , 1989, 54, 6001-6003.	3.2	37
60	Electronic and steric effects in pentacoordinate anionic diorganotrifluorosilicates: x-ray structures and carbon-13 NMR studies for evaluation of charge distribution in aryl groups on silicon. <i>Organometallics</i> , 1992, 11, 182-191.	2.3	36
61	Artificial hydrogenase: biomimetic approaches controlling active molecular catalysts. <i>Current Opinion in Chemical Biology</i> , 2015, 25, 133-140.	6.1	36
62	Photoinduced Electron Transfer between Multifunctional Porphyrin and Ubiquinone Analogues Linked by Several Hydrogen-Bonding Interactions. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1964-1966.	4.4	35
63	Experimental Probe for Hyperconjugative Resonance Contribution in Stabilizing the Singlet State of 2,2-Dialkoxy-1,3-diyls: Regioselective 1,2-Oxygen Migration. <i>Journal of the American Chemical Society</i> , 2006, 128, 8008-8014.	13.7	34
64	Time-resolved Raman evidence for energy "funneling" through propionate side chains in heme "cooling" upon photolysis of carbonmonoxy myoglobin. <i>Chemical Physics Letters</i> , 2006, 429, 239-243.	2.6	34
65	Construction of a hybrid biocatalyst containing a covalently-linked terpyridine metal complex within a cavity of apoferritin. <i>Journal of Inorganic Biochemistry</i> , 2016, 158, 55-61.	3.5	34
66	Artificial Diels-Alderase based on the transmembrane protein FhuA. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 1314-1321.	2.2	33
67	Rhodium-Complex-Linked Hybrid Biocatalyst: Stereo-Controlled Phenylacetylene Polymerization within an Engineered Protein Cavity. <i>ChemCatChem</i> , 2014, 6, 1229-1235.	3.7	32
68	Generation of New Artificial Metalloproteins by Cofactor Modification of Native Hemoproteins. <i>Israel Journal of Chemistry</i> , 2015, 55, 76-84.	2.3	32
69	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
70	Interprotein Electron Transfer Reaction Regulated by an Artificial Interface. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1098-1101.	13.8	31
71	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
72	Contribution of heme-propionate side chains to structure and function of myoglobin: chemical approach by artificially created prosthetic groups. <i>Journal of Inorganic Biochemistry</i> , 2002, 91, 94-100.	3.5	30

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73	Energy migration within hexameric hemoprotein reconstituted with Zn porphyrinoid molecules. <i>Chemical Communications</i> , 2015, 51, 11138-11140.	4.1	30
74	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
75	A water-soluble supramolecular complex that mimics the heme/copper hetero-binuclear site of cytochrome <i>c</i> ₁ /oxidase. <i>Chemical Science</i> , 2018, 9, 1989-1995.	7.4	29
76	Electroorganic syntheses of macrocyclic lactones mediated by vitamin B12 model complexes. <i>Journal of Electroanalytical Chemistry</i> , 2001, 507, 170-176.	3.8	28
77	Synthesis, Characterization, and Autoreduction of a Highly Electron-Deficient Porphycenatoiron(III) with Trifluoromethyl Substituents. <i>Inorganic Chemistry</i> , 2003, 42, 7345-7347.	4.0	28
78	Ligand binding properties of two kinds of reconstituted myoglobins with iron porphycene having propionates: Effect of β -pyrrolic position of two propionate side chains in porphycene framework. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 1265-1271.	3.5	28
79	Supramolecular hemoprotein-gold nanoparticle conjugates. <i>Chemical Communications</i> , 2010, 46, 9107.	4.1	28
80	Conformational Analysis of β -Turn Structure in Tetrapeptides Containing Proline or Proline Analogs. <i>Tetrahedron Letters</i> , 1997, 38, 3039-3042.	1.4	27
81	A Structural Isomer of Nonaromatic Porphyrin: Preparation of Zn^{II} -Conjugated Porphycene Based on Electronic Perturbation. <i>Organic Letters</i> , 2007, 9, 5303-5306.	4.6	27
82	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
83	Thermodynamically controlled supramolecular polymerization of cytochrome <i>c</i> ₁ . <i>Biopolymers</i> , 2009, 91, 194-200.	2.4	26
84	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
85	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
86	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
87	Introduction of a specific binding domain on myoglobin surface by new chemical modification. <i>Journal of Inorganic Biochemistry</i> , 2000, 82, 133-139.	3.5	24
88	Ortho lithiation directed by amino groups on silicon in phenylsilane derivatives. <i>Tetrahedron Letters</i> , 1990, 31, 2925-2928.	1.4	23
89	Notable temperature effect on the stereoselectivity in the photochemical [2+2] cycloaddition reaction (Patern-B \ddot{u} chi reaction) of 2,3-dihydrofuran-3-ol derivatives with benzophenone. <i>Tetrahedron Letters</i> , 2006, 47, 2527-2530.	1.4	23
90	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

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91	Investigation of Aromaticity and Photophysical Properties in [18]/[20] Porphycene Derivatives. <i>Chemistry - A European Journal</i> , 2011, 17, 7882-7889.	3.3	23
92	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
93	Myoglobin Reconstituted with Ni Tetradehydrocorrin as a Methane-Generating Model of Methyl-coenzyme M Reductase. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13813-13817.	13.8	22
94	DNA-Mediated Protein Shuttling between Coacervate-Based Artificial Cells. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	22
95	New approach to the construction of an artificial hemoprotein complex. <i>Coordination Chemistry Reviews</i> , 1999, 190-192, 961-974.	18.8	20
96	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
97	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
98	Photoinduced electron transfer from zinc porphyrin to a linked quinone in myoglobin. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 2503.	2.0	19
99	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
100	Mitochondria-Targeting Polyamine-Protoporphyrin Conjugates for Photodynamic Therapy. <i>ChemMedChem</i> , 2018, 13, 15-19.	3.2	19
101	Light triggers molecular shuttling in rotaxanes: control over proximity and charge recombination. <i>Chemical Science</i> , 2019, 10, 3846-3853.	7.4	19
102	Kinetic and Thermodynamic Analysis of Induced-Fit Molecular Recognition between Tetraarylporphyrin and Ubiquinone Analogues. <i>Chemistry - A European Journal</i> , 1998, 4, 1266-1274.	3.3	18
103	Thermal Isomerization of N-Bridged Cobalt Corrole Complexes through a Transiently Formed Axial Carbenoid. <i>Organometallics</i> , 2011, 30, 1869-1873.	2.3	18
104	Photoinduced Electron Transfer of Zn-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
105	Pathway of Information Transmission from Heme to Protein upon Ligand Binding/Dissociation in Myoglobin Revealed by UV Resonance Raman Spectroscopy. <i>Journal of Biological Chemistry</i> , 2006, 281, 24637-24646.	3.4	17
106	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
107	Nonprecious-metal Fe/N/C Catalysts Prepared from Expanded Fe Salen Precursors toward an Efficient Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2018, 10, 743-750.	3.7	17
108	Electrochemical CO ₂ reduction by a cobalt bipyricorrole 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

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109	Enhancement of Peroxygenase Activity of Horse Heart Myoglobin by Modification of Heme-propionate Side Chains. <i>Chemistry Letters</i> , 2003, 32, 496-497.	1.3	16
110	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
111	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
112	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
113	Synthesis of Ring-Fluorinated Porphyrins and Reconstititional Myoglobins with Their Iron Complexes. <i>Bulletin of the Chemical Society of Japan</i> , 1996, 69, 2923-2933.	3.2	15
114	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
115	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
116	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
117	Triazolecarbaldehyde Reagents for One-Step N-Terminal Protein Modification. <i>ChemBioChem</i> , 2020, 21, 1274-1278.	2.6	15
118	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
119	Carbene insertion into oxygen-hydrogen bonds by metalloporphyrin catalysts. <i>Journal of Organometallic Chemistry</i> , 1994, 473, 323-327.	1.8	13
120	Photochemical properties of a myoglobin-CdTe quantum dot conjugate. <i>Chemical Communications</i> , 2012, 48, 8054.	4.1	13
121	Synthesis and Characterization of <i>meso</i> -Substituted Cobalt Tetradehydrocorrins 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
122	Methane generation via intraprotein C-S bond cleavage in cytochrome b562 reconstituted with nickel didehydrocorrins. <i>Journal of Organometallic Chemistry</i> , 2019, 901, 120945.	1.8	13
123	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
124	Methane Generation and Reductive Debromination of Benzylic Position by Reconstituted Myoglobin Containing Nickel Tetradehydrocorrins as a Model of Methyl-coenzyme M Reductase. <i>Inorganic Chemistry</i> , 2020, 59, 11995-12004.	4.0	13
125	Functionalization of Myoglobin. <i>Progress in Inorganic Chemistry</i> , 2005, , 449-493.	3.0	12
126	Construction of glycosylated myoglobin by reconstititional method. <i>Chemical Communications</i> , 2006, , 3131.	4.1	12

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127	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
128	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
129	An efficient oxidative cleavage of carbon-silicon bonds by a dioxygen/hydroquinone system. <i>Tetrahedron Letters</i> , 1989, 30, 6533-6536.	1.4	11
130	A Matrix Isolation Study of 2-Isopropylidenecyclopentane-1,3-diyl (Berson-Type Diradical). <i>Journal of Organic Chemistry</i> , 2006, 71, 6607-6610.	3.2	11
131	Organic/inorganic hybrid nanomaterials with vitamin B12 functions. <i>Science and Technology of Advanced Materials</i> , 2006, 7, 655-661.	6.1	11
132	Substrate binding induces structural changes in cytochrome P450cam. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 80-83.	0.7	11
133	Fibrous Supramolecular Hemoprotein Assemblies Connected with Synthetic Heme Dimer and Apohemoprotein Dimer. <i>Chemistry and Biodiversity</i> , 2012, 9, 1684-1692.	2.1	11
134	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
135	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
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