Takafumi Ueno

List of Publications by Year
in descending order

112 papers	4,192 citations	87888 38 h-index	118850 62 g-index
132 all docs	132 docs citations	132 times ranked	3358 citing authors

#	Article	IF	Citations
1	Size-Selective Olefin Hydrogenation by a Pd Nanocluster Provided in an Apo-Ferritin Cage. Angewandte Chemie - International Edition, 2004, 43, 2527-2530.	13.8	321
2	Preparation of Artificial Metalloenzymes by Insertion of Chromium(III) Schiff Base Complexes into Apomyoglobin Mutants. Angewandte Chemie - International Edition, 2003, 42, 1005-1008.	13.8	223
3	Coordinated Design of Cofactor and Active Site Structures in Development of New Protein Catalysts. Journal of the American Chemical Society, 2005, 127, 6556-6562.	13.7	171
4	Polymerization of Phenylacetylene by Rhodium Complexes within a Discrete Space of apo-Ferritin. Journal of the American Chemical Society, 2009, 131, 6958-6960.	13.7	165
5	Reactivities of Oxo and Peroxo Intermediates Studied by Hemoprotein Mutants. Accounts of Chemical Research, 2007, 40, 554-562.	15.6	129
6	Control of the Coordination Structure of Organometallic Palladium Complexes in an apo-Ferritin Cage. Journal of the American Chemical Society, 2008, 130, 10512-10514.	13.7	127
7	Crystal Structures of Artificial Metalloproteins:Â Tight Binding of FeIII(Schiff-Base) by Mutation of Ala71 to Gly in Apo-Myoglobin. Inorganic Chemistry, 2004, 43, 2852-2858.	4.0	102
8	Observation of gold sub-nanocluster nucleation within a crystalline protein cage. Nature Communications, 2017, 8, 14820.	12.8	93
9	Preparation and catalytic reaction of Au/Pd bimetallic nanoparticles in Apo-ferritin. Chemical Communications, 2009, , 4871.	4.1	92
10	Intracellular CO Release from Composite of Ferritin and Ruthenium Carbonyl Complexes. Journal of the American Chemical Society, 2014, 136, 16902-16908.	13.7	89
11	Process of Accumulation of Metal Ions on the Interior Surface of apo-Ferritin: Crystal Structures of a Series of apo-Ferritins Containing Variable Quantities of Pd(II) Ions. Journal of the American Chemical Society, 2009, 131, 5094-5100.	13.7	88
12	Use of the confined spaces of apo-ferritin and virus capsids as nanoreactors for catalytic reactions. Current Opinion in Chemical Biology, 2015, 25, 88-97.	6.1	83
13	A Virus-Based Nanoblock with Tunable Electrostatic Properties. Nano Letters, 2005, 5, 597-602.	9.1	74
14	Preparation of a Cross-Linked Porous Protein Crystal Containing Ru Carbonyl Complexes as a CO-Releasing Extracellular Scaffold. Inorganic Chemistry, 2015, 54, 215-220.	4.0	72
15	A Photoactive Carbonâ€Monoxideâ€Releasing Protein Cage for Doseâ€Regulated Delivery in Living Cells. Angewandte Chemie - International Edition, 2016, 55, 1056-1060.	13.8	71
16	Design of artificial metalloenzymes using non-covalent insertion of a metal complex into a protein scaffold. Journal of Organometallic Chemistry, 2007, 692, 142-147.	1.8	65
17	Design of biomaterials for intracellular delivery of carbon monoxide. Biomaterials Science, 2015, 3, 1423-1438.	5.4	61
18	Title is missing!. Angewandte Chemie, 2003, 115, 1035-1038.	2.0	60

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19	Incorporation of organometallic Ru complexes into apo-ferritin cage. Dalton Transactions, 2011, 40, 2190-2195.	3.3	59
20	Postâ€Crystal Engineering of Zincâ€Substituted Myoglobin to Construct a Longâ€Lived Photoinduced Chargeâ€Separation System. Angewandte Chemie - International Edition, 2011, 50, 4849-4852.	13.8	58
21	Design of a confined environment using protein cages and crystals for the development of biohybrid materials. Chemical Communications, 2016, 52, 6496-6512.	4.1	56
22	Design of protein crystals in the development of solid biomaterials. RSC Advances, 2015, 5, 21366-21375.	3.6	55
23	Porous Protein Crystals as Reaction Vessels. Chemistry - A European Journal, 2013, 19, 9096-9102.	3.3	53
24	Crystal Engineering of Self-Assembled Porous Protein Materials in Living Cells. ACS Nano, 2017, 11, 2410-2419.	14.6	53
25	Site-Selective Protein Chemical Modification of Exposed Tyrosine Residues Using Tyrosine Click Reaction. Bioconjugate Chemistry, 2020, 31, 1417-1424.	3.6	53
26	Catalytic Mechanism in Artificial Metalloenzyme: QM/MM Study of Phenylacetylene Polymerization by Rhodium Complex Encapsulated in <i>apo</i>-Ferritin. Journal of the American Chemical Society, 2012, 134, 15418-15429.	13.7	51
27	Porous Protein Crystals as Reaction Vessels for Controlling Magnetic Properties of Nanoparticles. Small, 2012, 8, 1314-1319.	10.0	50
28	Expanding coordination chemistry from protein to protein assembly. Chemical Communications, 2013, 49, 4114-4126.	4.1	49
29	Catalase Reaction by Myoglobin Mutants and Native Catalase. Journal of Biological Chemistry, 2004, 279, 52376-52381.	3.4	48
30	Porous Protein Crystals as Catalytic Vessels for Organometallic Complexes. Chemistry - an Asian Journal, 2014, 9, 1373-1378.	3.3	47
31	Mechanism of Accumulation and Incorporation of Organometallic Pd Complexes into the Protein Nanocage of apo-Ferritin. Inorganic Chemistry, 2010, 49, 6967-6973.	4.0	43
32	Design of metal cofactors activated by a protein-protein electron transfer system. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9416-9421.	7.1	41
33	Construction of Robust Bioâ€nanotubes using the Controlled Selfâ€Assembly of Component Proteins of Bacteriophage T4. Small, 2010, 6, 1873-1879.	10.0	41
34	Artificial Metalloenzymes Constructed From Hierarchicallyâ€Assembled Proteins. Chemistry - an Asian Journal, 2013, 8, 1646-1660.	3.3	41
35	Asymmetric Sulfoxidation and Amine Binding by H64D/V68A and H64D/V68S Mb:â€‰ Mechanistic Insight into the Chiral Discrimination Step. Journal of the American Chemical Society, 2002, 124, 8506-8507.	13.7	40
36	Introduction of P450, Peroxidase, and Catalase Activities into Myoglobin by Site-Directed Mutagenesis: Diverse Reactivities of Compound I. Bulletin of the Chemical Society of Japan, 2003, 76, 1309-1322.	3.2	39

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37	Elucidation of Metalâ€Ion Accumulation Induced by Hydrogen Bonds on Protein Surfaces by Using Porous Lysozyme Crystals Containing Rh^{III}Ions as the Model Surfaces. Chemistry - A European Journal, 2010, 16, 2730-2740.	3.3	38
38	Bionanotube Tetrapod Assembly by In Situ Synthesis of a Gold Nanocluster with (Gp5â€“His6)3 from Bacteriophage T4. Angewandte Chemie - International Edition, 2006, 45, 4508-4512.	13.8	37
39	Dual modification of a triple-stranded Î²-helix nanotube with Ru and Re metal complexes to promote photocatalytic reduction of CO2. Chemical Communications, 2011, 47, 2074.	4.1	37
40	Oxidative Modification of Tryptophan 43 in the Heme Vicinity of the F43W/H64L Myoglobin Mutant. Journal of Biological Chemistry, 2001, 276, 36067-36070.	3.4	36
41	Noncovalent insertion of ferrocenes into the protein shell of apo-ferritin. Chemical Communications, 2008, , 6519.	4.1	34
42	Modification of Porous Protein Crystals in Development of Biohybrid Materials. Bioconjugate Chemistry, 2010, 21, 264-269.	3.6	34
43	Definite coordination arrangement of organometallic palladium complexes accumulated on the designed interior surface of apo-ferritin. Chemical Communications, 2011, 47, 170-172.	4.1	34
44	Incorporation of a Phebox Rhodium Complex into apo-Myoglobin Affords a Stable Organometallic Protein Showing Unprecedented Arrangement of the Complex in the Cavity. Organometallics, 2007, 26, 4904-4908.	2.3	33
45	Design and Structure Analysis of Artificial Metalloproteins:â€‰ Selective Coordination of His64 to Copper Complexes with Square-Planar Structure in the apo-Myoglobin Scaffold. Inorganic Chemistry, 2007, 46, 5137-5139.	4.0	33
46	Design of Enzymeâ€Encapsulated Protein Containers by In Vivo Crystal Engineering. Advanced Materials, 2015, 27, 7951-7956.	21.0	32
47	Molecular Engineering of Myoglobin:Â Influence of Residue 68 on the Rate and the Enantioselectivity of Oxidation Reactions Catalyzed by H64D/V68X Myoglobinâ€. Biochemistry, 2003, 42, 10174-10181.	2.5	31
48	Construction of supramolecular nanotubes from protein crystals. Chemical Science, 2019, 10, 1046-1051.	7.4	30
49	Monooxygenation of an Aromatic Ring by F43W/H64D/V68I Myoglobin Mutant and Hydrogen Peroxide. Journal of Biological Chemistry, 2005, 280, 12858-12866.	3.4	29
50	Immobilization of two organometallic complexes into a single cage to construct protein-based microcompartments. Chemical Communications, 2016, 52, 5463-5466.	4.1	29
51	Photoactivatable CO release from engineered protein crystals to modulate NF-ÎºB activation. Chemical Communications, 2016, 52, 4545-4548.	4.1	28
52	Functionalization of protein crystals with metal ions, complexes and nanoparticles. Current Opinion in Chemical Biology, 2018, 43, 68-76.	6.1	28
53	Semi-synthesis of an artificial scandium(iii) enzyme with a Î²-helical bio-nanotube. Dalton Transactions, 2012, 41, 11424.	3.3	26
54	Artificial Metalloproteins Exploiting Vacant Space: Preparation, Structures, and Functions. Topics in Organometallic Chemistry, 2009, , 25-43.	0.7	26

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55	Molecular Design of Heteroprotein Assemblies Providing a Bionanocup as a Chemical Reactor. Small, 2008, 4, 50-54.	10.0	25
56	The Versatile Manipulations of Self-Assembled Proteins in Vaccine Design. International Journal of Molecular Sciences, 2021, 22, 1934.	4.1	23
57	Functionalization of viral protein assemblies by self-assembly reactions. Journal of Materials Chemistry, 2008, 18, 3741.	6.7	22
58	Design of a CO-releasing Extracellular Scaffold Using in Vivo Protein Crystals. Chemistry Letters, 2015, 44, 342-344.	1.3	21
59	<i>In-Cell</i> Engineering of Protein Crystals with Nanoporous Structures for Promoting Cascade Reactions. ACS Applied Nano Materials, 2021, 4, 1672-1681.	5.0	21
60	Photocatalytic hydrogen evolution systems constructed in cross-linked porous protein crystals. Applied Catalysis B: Environmental, 2018, 237, 1124-1129.	20.2	19
61	Crystal structure based design of functional metal/protein hybrids. Journal of Inorganic Biochemistry, 2007, 101, 1667-1675.	3.5	18
62	Ligand design for the improvement of stability of metal complexÂ·protein hybrids. Chemical Communications, 2008, , 229-231.	4.1	18
63	Engineering of protein crystals for use as solid biomaterials. Biomaterials Science, 2022, 10, 354-367.	5.4	17
64	A metal carbonylâ€“protein needle composite designed for intracellular CO delivery to modulate NF-ÎºB activity. Molecular BioSystems, 2015, 11, 3111-3118.	2.9	16
65	Engineering of protein assemblies within cells. Current Opinion in Structural Biology, 2018, 51, 1-8.	5.7	14
66	Single-molecule level dynamic observation of disassembly of the apo-ferritin cage in solution. Physical Chemistry Chemical Physics, 2020, 22, 18562-18572.	2.8	14
67	Encapsulation of biomacromolecules by soaking and co-crystallization into porous protein crystals of hemocyanin. Biochemical and Biophysical Research Communications, 2019, 509, 577-584.	2.1	13
68	Design of an Inâ€Cell Protein Crystal for the Environmentally Responsive Construction of a Supramolecular Filament. Angewandte Chemie - International Edition, 2021, 60, 12341-12345.	13.8	13
69	Protection of Proton-Initiated Ligand Dissociation from Hg(II) Complexes with Bulky Cholyl Amide Arenethiolate by NHÂ·Â·Â·S Hydrogen Bonding in an Aqueous Micellar Solution. Inorganic Chemistry, 1999, 38, 4028-4031.	4.0	12
70	An Engineered Metalloprotein as a Functional and Structural Bioinorganic Model System. Angewandte Chemie - International Edition, 2010, 49, 3868-3869.	13.8	12
71	Recent progresses in the accumulation of metal ions into the apo-ferritin cage: Experimental and theoretical perspectives. Polyhedron, 2019, 172, 104-111.	2.2	12
72	Molecular engineering of cytochrome P450 and myoglobin for selective oxygenations. Journal of Porphyrins and Phthalocyanines, 2004, 08, 279-289.	0.8	11

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73	Construction of an energy transfer system in the bio-nanocup space by heteromeric assembly of gp27 and gp5 proteins isolated from bacteriophage T4. Organic and Biomolecular Chemistry, 2009, 7, 2649.	2.8	11
74	Plasma membrane translocation of a protein needle based on a triple-stranded Î²-helix motif. Molecular BioSystems, 2014, 10, 2677.	2.9	10
75	Intracellular Protein Delivery System with Protein Needleâ€"GFP Construct. Chemistry Letters, 2014, 43, 1505-1507.	1.3	10
76	Protein Needles as Molecular Templates for Artificial Metalloenzymes. Israel Journal of Chemistry, 2015, 55, 40-50.	2.3	10
77	Supramolecular protein cages constructed from a crystalline protein matrix. Chemical Communications, 2018, 54, 1988-1991.	4.1	10
78	Coordination design of cadmium ions at the 4-fold axis channel of the apo-ferritin cage. Dalton Transactions, 2019, 48, 9759-9764.	3.3	9
79	Artificial metalloenzymes based on protein assembly. Coordination Chemistry Reviews, 2022, 469, 214593.	18.8	9
80	Protein Needles Designed to Selfâ€Assemble through Needle Tip Engineering. Small, 2022, 18, e2106401.	10.0	8
81	Controlled Uptake of an Iridium Complex inside Engineered apoâ€Ferritin Nanocages: Study of Structure and Catalysis**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	8
82	Construction of an enterobactin analogue with symmetrically arranged monomer subunits of ferritin. Chemical Communications, 2015, 51, 16609-16612.	4.1	7
83	Engineering of protein crystals for development of bionanomaterials. Japanese Journal of Applied Physics, 2019, 58, SI0802.	1.5	7
84	Design of Multinuclear Gold Binding Site at the Two-fold Symmetric Interface of the Ferritin Cage. Chemistry Letters, 2020, 49, 840-844.	1.3	7
85	Surface Functionalization of Protein Crystals with Carbohydrate Using Site-selective Bioconjugation. Chemistry Letters, 2015, 44, 29-31.	1.3	6
86	A Photoactive Carbonâ€Monoxideâ€Releasing Protein Cage for Doseâ€Regulated Delivery in Living Cells. Angewandte Chemie, 2016, 128, 1068-1072.	2.0	6
87	Dynamic behavior of an artificial protein needle contacting a membrane observed by high-speed atomic force microscopy. Nanoscale, 2020, 12, 8166-8173.	5.6	6
88	Importance of the Subunitâ€"Subunit Interface in Ferritin Disassembly: A Molecular Dynamics Study. Langmuir, 2022, 38, 1106-1113.	3.5	6
89	19F NMR investigations of cobalt(II) complexes with cysteine-containing peptide ligands. Magnetic Resonance in Chemistry, 1995, 33, 174-177.	1.9	5
90	Design of Bioinorganic Materials at the Interface of Coordination and Biosupramolecular Chemistry. Chemical Record, 2017, 17, 383-398.	5.8	5

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91	Structure of in cell protein crystals containing organometallic complexes. Physical Chemistry Chemical Physics, 2018, 20, 2986-2989.	2.8	5
92	Design of a gold clustering site in an engineered apo-ferritin cage. Communications Chemistry, 2022, 5, .	4.5	5
93	Artificial bio-nanomachines based on protein needles derived from bacteriophage T4. Biophysical Reviews, 2018, 10, 641-658.	3.2	4
94	Raman spectroscopy insight into Norovirus encapsulation in Bombyx mori cypovirus cubic microcrystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 203, 19-30.	3.9	3
95	Photoinduced inâ€...Vivo Magnetic Resonance Imaging (MRI) with Rapid CO Release from an MnCOâ€Protein Needle Composite. Chemistry - A European Journal, 2018, 24, 11578-11583.	3.3	3
96	Inorganic Design of Protein Assemblies as Supramolecular Platforms. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 50-60.	3.7	2
97	Dynamic Behavior of Cargo Proteins Regulated by Linker Peptides on a Protein Needle Scaffold. Chemistry Letters, 2022, 51, 73-76.	1.3	2
98	Improved efficiency of nanoneedle insertion by modification with a cell-puncturing protein. Japanese Journal of Applied Physics, 2018, 57, 03EB02.	1.5	1
99	Tailoring Organometallic Complexes into Protein Scaffolds. , 2019, , 329-346.		1
100	Controlled Uptake of an Iridium Complex inside Engineered apoâ€Ferritin Nanocages: Study of Structure and Catalysis**. Angewandte Chemie, 0, , .	2.0	1
101	Regulation of electrochemical properties of Fe(II) and Fe(III) thiolate complexes by hydrogen bonding with diamide additive. Reactive and Functional Polymers, 1998, 37, 225-233.	4.1	0
102	Stability and Activity of Enzymes in Ionic Liquids. , 2012, , 235-273.		0
103	Coordination Chemistry in Protein Cages. Principles, Design and Applications. Herausgegeben von Takafumi Ueno und Yoshihito Watanabe.. Angewandte Chemie, 2014, 126, 1503-1504.	2.0	0
104	Modulation of Cellular Functions by Protein Needles. Seibutsu Butsuri, 2015, 55, 089-091.	0.1	0
105	Construction of Multistep Catalytic Systems in Protein Assemblies. Fundamental Biomedical Technologies, 2021, , 29-44.	0.2	0
106	Design of an Inâ€Cell Protein Crystal for the Environmentally Responsive Construction of a Supramolecular Filament. Angewandte Chemie, 2021, 133, 12449-12453.	2.0	0
107	Design of Protein Scaffolds for Chemical Reactions Catalyzed by Metal Complexes and Nanoparticles. Bulletin of Japan Society of Coordination Chemistry, 2008, 51, 20-30.	0.2	0
108	Coordination Chemistry in Self-Assembly Proteins. Springer Briefs in Molecular Science, 2013, , 61-68.	0.1	0

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109	Molecular Design of Protein Crystals as a Reaction Vessels for Observation of Chemical Reactions. Nihon Kessho Gakkaishi, 2013, 55, 81-85.	0.0	0
110	Palladium, Coordination of Organometallic Complexes in Apoferritin. , 2013, , 1641-1648.		0
111	Development of Bio-Hybrid Materials by Design of Supramolecular Protein Assemblies. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2017, 75, 1264-1273.	0.1	0
112	pKa shift by NHâ‹¯S hydrogen bond in the hair-pin turn structure of Cys-containing oligopeptides. , 1999, , 288-290.		0