Shun Hirota

List of Publications by Year in descending order

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204 papers

5,968 citations

66234 42 h-index 64 g-index

212 all docs 212 docs citations

times ranked

212

4903 citing authors

#	Article	lF	CITATIONS
1	Structural and spectroscopic characterization of CO inhibition of [NiFe]-hydrogenase from <i>Citrobacter</i> sp. S-77. Acta Crystallographica Section F, Structural Biology Communications, 2022, 78, 66-74.	0.4	O
2	Heme-bound tyrosine vibrations in hemoglobin M: Resonance Raman, crystallography, and DFT calculation. Biophysical Journal, 2022, 121, 2767-2780.	0.2	3
3	Second and Outer Coordination Sphere Effects in Nitrogenase, Hydrogenase, Formate Dehydrogenase, and CO Dehydrogenase. Chemical Reviews, 2022, 122, 11900-11973.	23.0	70
4	Proton Transfer Mechanisms in Bimetallic Hydrogenases. Accounts of Chemical Research, 2021, 54, 232-241.	7.6	39
5	New Aspects of Cytochrome <i>c</i> : 3D Domain Swapping, Membrane Interaction, Peroxidase Activity, and Met80 Sulfoxide Modification. Bulletin of the Chemical Society of Japan, 2021, 94, 170-182.	2.0	12
6	Rational design of metal-binding sites in domain-swapped myoglobin dimers. Journal of Inorganic Biochemistry, 2021, 217, 111374.	1.5	4
7	Use of 3D domain swapping in constructing supramolecular metalloproteins. Chemical Communications, 2021, 57, 12074-12086.	2.2	5
8	Construction of ferritin hydrogels utilizing subunit–subunit interactions. PLoS ONE, 2021, 16, e0259052.	1.1	1
9	Experimental and theoretical study on converting myoglobin into a stable domain-swapped dimer by utilizing a tight hydrogen bond network at the hinge region. RSC Advances, 2021, 11, 37604-37611.	1.7	2
10	3D domain swapping of azurin from <i>Alcaligenes xylosoxidans</i> . Metallomics, 2020, 12, 337-345.	1.0	5
11	Second-coordination sphere effects on the reactivities of Hoveyda–Grubbs-type catalysts: a ligand exchange study using phenolic moiety-functionalized ligands. Dalton Transactions, 2020, 49, 11618-11627.	1.6	6
12	Mechanism and Application of the Catalytic Reaction of [NiFe] Hydrogenase: Recent Developments. ChemBioChem, 2020, 21, 1573-1581.	1.3	11
13	Regioselective Chemical Modification of Cysteine Residues on Protein Surfaces Focusing on Local Environment around the Conjugation Site. Bioconjugate Chemistry, 2020, 31, 794-802.	1.8	8
14	Thermodynamic Control of Domain Swapping by Modulating the Helical Propensity in the Hinge Region of Myoglobin. Chemistry - an Asian Journal, 2020, 15, 1743-1749.	1.7	5
15	Ligand Exchange Strategy for Delivery of Ruthenium Complex Unit to Biomolecules Based on Ruthenium–Olefin Specific Interactions. Chemistry Letters, 2020, 49, 1490-1493.	0.7	4
16	Determination of proton concentration at cardiolipin-containing membrane interfaces and its relation with the peroxidase activity of cytochrome <i>c</i>). Chemical Science, 2019, 10, 9140-9151.	3.7	19
17	Cysteine SH and Glutamate COOH Contributions to [NiFe] Hydrogenase Proton Transfer Revealed by Highly Sensitive FTIR Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 13285-13290.	7.2	31
18	Recent developments on creation of artificial metalloenzymes. Tetrahedron Letters, 2019, 60, 151226.	0.7	19

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19	Protein surface charge effect on 3D domain swapping in cells for c-type cytochromes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 140265.	1.1	7
20	Cysteine SH and Glutamate COOH Contributions to [NiFe] Hydrogenase Proton Transfer Revealed by Highly Sensitive FTIR Spectroscopy. Angewandte Chemie, 2019, 131, 13419-13424.	1.6	11
21	Domainâ€Swapping Design by Polyproline Rod Insertion. ChemBioChem, 2019, 20, 2454-2457.	1.3	7
22	Oligomerization of cytochrome c, myoglobin, and related heme proteins by 3D domain swapping. Journal of Inorganic Biochemistry, 2019, 194, 170-179.	1.5	23
23	Construction of a Quadrangular Tetramer and a Cage-Like Hexamer from Three-Helix Bundle-Linked Fusion Proteins. ACS Synthetic Biology, 2019, 8, 1112-1120.	1.9	7
24	Conferment of CO-Controlled Dimer–Monomer Transition Property to Thermostable Cytochrome <i>>c</i> >′ by Mutation in the Subunit–Subunit Interface. Bulletin of the Chemical Society of Japan, 2019, 92, 702-709.	2.0	3
25	Comprehensive reaction mechanisms at and near the Ni–Fe active sites of [NiFe] hydrogenases. Dalton Transactions, 2018, 47, 4408-4423.	1.6	34
26	Oxidative modification of methionine80 in cytochrome c by reaction with peroxides. Journal of Inorganic Biochemistry, 2018, 182, 200-207.	1.5	14
27	Construction of a Triangleâ€Shaped Trimer and a Tetrahedron Using an αâ€Helixâ€Inserted Circular Permutant of Cytochrome <i>c</i> ₅₅₅ . Chemistry - an Asian Journal, 2018, 13, 964-967.	1.7	8
28	Design of artificial metalloproteins/metalloenzymes by tuning noncovalent interactions. Journal of Biological Inorganic Chemistry, 2018, 23, 7-25.	1.1	36
29	Global Structural Flexibility of Metalloproteins Regulates Reactivity of Transition Metal Ion in the Protein Core: An Experimental Study Using Thiolâ€subtilisin as a Model Protein. Chemistry - A European Journal, 2018, 24, 2767-2775.	1.7	4
30	Theoretical analysis of the domain-swapped dimerization of cytochrome <i>c</i> : An MD and 3D-RISM approach. Journal of Chemical Physics, 2018, 148, 025102.	1.2	7
31	Redox-dependent conformational changes of a proximal [4Fe–4S] cluster in Hyb-type [NiFe]-hydrogenase to protect the active site from O ₂ . Chemical Communications, 2018, 54, 12385-12388.	2.2	14
32	Synergistic Effect of Distal Polar Interactions in Myoglobin and Their Structural Consequences. Inorganic Chemistry, 2018, 57, 14269-14279.	1.9	5
33	Efficient Photochemical Reduction of Quinone into Hydroquinone Promoted by Imidazolyl <i>N</i> HProton. Chemistry Letters, 2018, 47, 1343-1345.	0.7	1
34	Supramolecular Assemblies of C-Type Cytochromes Based on 3D Domain Swapping. ECS Meeting Abstracts, 2018, , .	0.0	0
35	Theoretical Study on Oligomerization of Cytochrome <i>c</i>). Journal of Computer Chemistry Japan, 2018, 17, 8-13.	0.0	0
36	Effect of methionine80 heme coordination on domain swapping of cytochrome c. Journal of Biological Inorganic Chemistry, 2017, 22, 705-712.	1.1	12

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37	A Single Spherical Assembly of Protein Amyloid Fibrils Formed by Laser Trapping. Angewandte Chemie - International Edition, 2017, 56, 6739-6743.	7.2	22
38	Improved stoppedâ€flow timeâ€resolved resonance Raman spectroscopy device for studying enzymatic reactions. Journal of Raman Spectroscopy, 2017, 48, 680-685.	1.2	3
39	A Single Spherical Assembly of Protein Amyloid Fibrils Formed by Laser Trapping. Angewandte Chemie, 2017, 129, 6843-6847.	1.6	3
40	Formation and carbon monoxideâ€dependent dissociation of <i>Allochromatium vinosum</i> cytochrome <i>c</i> ′ oligomers using domainâ€swapped dimers. Protein Science, 2017, 26, 464-474.	3.1	13
41	Structural basis of the redox switches in the NAD ⁺ -reducing soluble [NiFe]-hydrogenase. Science, 2017, 357, 928-932.	6.0	46
42	Activation Mechanism of the <i>Streptomyces</i> Tyrosinase Assisted by the Caddie Protein. Biochemistry, 2017, 56, 5593-5603.	1.2	12
43	Equilibrium between inactive ready Ni-SI _r and active Ni-SI _a states of [NiFe] hydrogenase studied by utilizing Ni-SI _r -to-Ni-SI _a photoactivation. Chemical Communications, 2017, 53, 10444-10447.	2.2	11
44	Rational Design of Domainâ€Swappingâ€Based <i>c</i> àâ€Type Cytochrome Heterodimers by Using Chimeric Proteins. ChemBioChem, 2017, 18, 1712-1715.	1.3	11
45	Domain swapping oligomerization of thermostable c-type cytochrome in E. coli cells. Scientific Reports, 2016, 6, 19334.	1.6	13
46	Characterization of the Cytochromeâ€ <i>c</i> Membraneâ€Binding Site Using Cardiolipin ontaining Bicelles with NMR. Angewandte Chemie - International Edition, 2016, 55, 14019-14022.	7.2	34
47	Photoactivation of the Ni-SI _r state to the Ni-SI _a state in [NiFe] hydrogenase: FT-IR study on the light reactivity of the ready Ni-SI _r state and as-isolated enzyme revisited. Physical Chemistry Chemical Physics, 2016, 18, 22025-22030.	1.3	16
48	Characterization of the Cytochromeâ€ <i>c</i> Membraneâ€Binding Site Using Cardiolipinâ€Containing Bicelles with NMR. Angewandte Chemie, 2016, 128, 14225-14228.	1.6	5
49	Effects of Heme Electronic Structure and Distal Polar Interaction on Functional and Vibrational Properties of Myoglobin. Inorganic Chemistry, 2016, 55, 1613-1622.	1.9	8
50	A simple interfacial pH detection method for cationic amphiphilic self-assemblies utilizing a Schiff-base molecule. Analyst, The, 2016, 141, 2030-2039.	1.7	12
51	Rational Design of Heterodimeric Protein using Domain Swapping for Myoglobin. Angewandte Chemie - International Edition, 2015, 54, 511-515.	7.2	31
52	Effect of a Procaspase-Activating Compound on the Catalytic Activity of Mature Caspase-3. Bulletin of the Chemical Society of Japan, 2015, 88, 1221-1229.	2.0	2
53	FT-IR Characterization of the Light-Induced Ni-L2 and Ni-L3 States of [NiFe] Hydrogenase from <i>Desulfovibrio vulgaris</i> Miyazaki F. Journal of Physical Chemistry B, 2015, 119, 13668-13674.	1.2	28
54	Molten Globule State and Assembly Formation of Cytochrome <i>c</i> . Seibutsu Butsuri, 2015, 55, 087-088.	0.0	0

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55	Domain-Swapped Dimer of Pseudomonas aeruginosa Cytochrome c551: Structural Insights into Domain Swapping of Cytochrome c Family Proteins. PLoS ONE, 2015, 10, e0123653.	1.1	19
56	Change in structure and ligand binding properties of hyperstable cytochrome <i>c</i> ₅₅₅ from <scp><i>A</i> </scp> <i>quifex aeolicus</i> by domain swapping. Protein Science, 2015, 24, 366-375.	3.1	18
57	Carbon monoxide binding properties of domain-swapped dimeric myoglobin. Journal of Biological Inorganic Chemistry, 2015, 20, 523-530.	1.1	7
58	Excimer Emission Properties on Pyrene-Labeled Protein Surface: Correlation between Emission Spectra, Ring Stacking Modes, and Flexibilities of Pyrene Probes. Bioconjugate Chemistry, 2015, 26, 537-548.	1.8	34
59	Dimer domain swapping versus monomer folding in apo-myoglobin studied by molecular simulations. Physical Chemistry Chemical Physics, 2015, 17, 5006-5013.	1.3	16
60	Domain-swapped cytochrome cb ₅₆₂ dimer and its nanocage encapsulating a Zn–SO ₄ cluster in the internal cavity. Chemical Science, 2015, 6, 7336-7342.	3.7	37
61	Oligomerization enhancement and two domain swapping mode detection for thermostable cytochrome c ₅₅₂ via the elongation of the major hinge loop. Molecular BioSystems, 2015, 11, 3218-3221.	2.9	15
62	Morphological Change of Cell Membrane by Interaction with Domainâ€Swapped Cytochrome ⟨i⟩c⟨/i⟩ Oligomers. ChemBioChem, 2014, 15, 517-521.	1.3	15
63	DNA cleavage by oxymyoglobin and cysteine-introduced metmyoglobin. Chemical Communications, 2014, 50, 15034-15036.	2.2	13
64	H ₂ O ₂ -dependent substrate oxidation by an engineered diiron site in a bacterial hemerythrin. Chemical Communications, 2014, 50, 3421-3423.	2.2	9
65	Electronic Control of Discrimination between O2 and CO in Myoglobin Lacking the Distal Histidine Residue. Inorganic Chemistry, 2014, 53, 1091-1099.	1.9	13
66	Formation of Domain-Swapped Oligomer of Cytochrome <i>c</i> from Its Molten Globule State Oligomer. Biochemistry, 2014, 53, 4696-4703.	1.2	24
67	Self-oxidation of cytochrome c at methionine80 with molecular oxygen induced by cleavage of the Met–heme iron bond. Molecular BioSystems, 2014, 10, 3130-3137.	2.9	40
68	Electronic Control of Ligand-Binding Preference of a Myoglobin Mutant. Inorganic Chemistry, 2014, 53, 9156-9165.	1.9	11
69	Artificial enzymes with protein scaffolds: Structural design and modification. Bioorganic and Medicinal Chemistry, 2014, 22, 5638-5656.	1.4	45
70	Self-Assembled Dimerization of Bis(crown ether)-2,2′-bibenzimidazoles. Bulletin of the Chemical Society of Japan, 2014, 87, 88-97.	2.0	0
71	Control of the Transition between Ni and Niâ€6 _a States by the Redox State of the Proximal FeS Cluster in the Catalytic Cycle of [NiFe] Hydrogenase. Angewandte Chemie - International Edition, 2014, 53, 13817-13820.	7.2	41
72	Interaction of dimeric horse cytochrome c with cyanide ion. Journal of Biological Inorganic Chemistry, 2013, 18, 383-390.	1.1	10

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73	Crystal Structure, Exogenous Ligand Binding, and Redox Properties of an Engineered Diiron Active Site in a Bacterial Hemerythrin. Inorganic Chemistry, 2013, 52, 13014-13020.	1.9	10
74	Formation of Oligomeric Cytochrome $\langle i \rangle c \langle i \rangle$ during Folding by Intermolecular Hydrophobic Interaction between N- and C-Terminal \hat{i} ±-Helices. Biochemistry, 2013, 52, 8732-8744.	1.2	40
75	Effect of Added Salt on Ring-Closing Metathesis Catalyzed by a Water-Soluble Hoveyda–Grubbs Type Complex To Form N-Containing Heterocycles in Aqueous Media. Organometallics, 2013, 32, 5313-5319.	1.1	38
76	Photosensitivity of the Ni-A state of [NiFe] hydrogenase from Desulfovibrio vulgaris Miyazaki F with visible light. Biochemical and Biophysical Research Communications, 2013, 430, 284-288.	1.0	11
77	Reversible Switching of Fluorophore Property Based on Intrinsic Conformational Transition of Adenylate Kinase during Its Catalytic Cycle. Bioconjugate Chemistry, 2013, 24, 1218-1225.	1.8	13
78	Relationship between the Electron Density of the Heme Fe Atom and the Vibrational Frequencies of the Fe-Bound Carbon Monoxide in Myoglobin. Inorganic Chemistry, 2013, 52, 3349-3355.	1.9	15
79	2P055 Domain-Swapped Oligomerization and Molten Globule State of Cytochrome c(01C. Protein:) Tj ETQq1 1	0.784314 0.0	rgBT /Overloc
80	Efficient Oxidative Cycloreversion Reaction of Photochromic Dithiazolythiazole. Journal of the American Chemical Society, 2012, 134, 19877-19883.	6.6	54
81	Creation of an artificial metalloprotein with a Hoveyda–Grubbs catalyst moiety through the intrinsic inhibition mechanism of α-chymotrypsin. Chemical Communications, 2012, 48, 1662.	2.2	75
82	Relationship between Oxygen Affinity and Autoxidation of Myoglobin. Inorganic Chemistry, 2012, 51, 11955-11960.	1.9	21
83	Structural and oxygen binding properties of dimeric horse myoglobin. Dalton Transactions, 2012, 41, 11378.	1.6	47
84	Domain Swapping of the Heme and N-Terminal α-Helix in <i>Hydrogenobacter thermophilus</i> Cytochrome <i>c</i> ₅₅₂ Dimer. Biochemistry, 2012, 51, 8608-8616.	1.2	41
85	Maintenance of the secondary structure of horse cytochrome c during the conversion process of monomers to oligomers by addition of ethanol. Journal of Biochemistry, 2012, 152, 521-529.	0.9	11
86	Post-Translational His-Cys Cross-Linkage Formation in Tyrosinase Induced by Copper(II)â^Peroxo Species. Journal of the American Chemical Society, 2011, 133, 1180-1183.	6.6	30
87	Enhancement of Laccase Activity through the Construction and Breakdown of a Hydrogen Bond at the Type I Copper Center in <i>Escherichia coli</i> CueO and the Deletion Mutant Î'α5â^7 CueO. Biochemistry, 2011, 50, 558-565.	1.2	33
88	DNA Cleavage by the Photocontrolled Cooperation of Zn ^{II} Centers in an Azobenzene-Linked Dizinc Complex. Inorganic Chemistry, 2011, 50, 11437-11445.	1.9	54
89	Peroxidase activity enhancement of horse cytochrome c by dimerization. Organic and Biomolecular Chemistry, 2011, 9, 4766.	1.5	72
90	2SJ-03 Cytochrome c polymerization by domain swapping(2SJ New developments in protein complex) Tj ETQq0	0 0 rgBT /0 0.0	Overlock 10 Tf O

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91	Supramolecular Organization of Lightâ€Harvesting Porphyrin Macrorings. Chemistry - A European Journal, 2011, 17, 855-865.	1.7	28
92	Efficient reduction of Cys110 thiyl radical by glutathione in human myoglobin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 480-486.	1.1	9
93	3P023 Cytochrome c polymerization by successive domain swapping at the C-terminal helix(Protein:) Tj ETQq1 S149.	1 0.784314 0.0	rgBT /Over 0
94	Crystallization and preliminary X-ray analysis of dimeric and trimeric cytochromescfrom horse heart. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 1477-1479.	0.7	0
95	Cytochrome <i>c</i> polymerization by successive domain swapping at the C-terminal helix. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12854-12859.	3.3	148
96	Structural Basis of the Lactate-dependent Allosteric Regulation of Oxygen Binding in Arthropod Hemocyanin. Journal of Biological Chemistry, 2010, 285, 19338-19345.	1.6	8
97	Oxoferryl Porphyrin/Hydrogen Peroxide System Whose Behavior is Equivalent to Hydroperoxoferric Porphyrin. Journal of the American Chemical Society, 2010, 132, 16730-16732.	6.6	46
98	Effect of Heme Modification on Oxygen Affinity of Myoglobin and Equilibrium of the Acidâ^'Alkaline Transition in Metmyoglobin. Journal of the American Chemical Society, 2010, 132, 6091-6098.	6.6	41
99	Reduction of Bis(dithiolene)oxo(disulfido)tungsten(VI) Complex with Dihydrogen Related to the Chemical Function of the Fourth Tungsten-Containing Enzyme (WOR4) from <i>Pyrococcus furiosus</i> . Journal of the American Chemical Society, 2010, 132, 8-9.	6.6	26
100	A new class of rhodamine luminophores: design, syntheses and aggregation-induced emission enhancement. Chemical Communications, 2010, 46, 9013.	2.2	67
101	Coherent dynamics and ultrafast excited state relaxation of blue copper protein; plastocyanin. Physical Chemistry Chemical Physics, 2010, 12, 6067.	1.3	28
102	Regulating Copperâ€Binding Affinity with Photoisomerizable Azobenzene Ligand by Construction of a Selfâ€Assembled Monolayer. Angewandte Chemie - International Edition, 2009, 48, 6065-6068.	7.2	16
103	Electron transfer from cytochrome c to cupredoxins. Journal of Biological Inorganic Chemistry, 2009, 14, 821-828.	1.1	18
104	Modulation of protein–ligand interactions by photocleavage of a cyclic peptide using phosphatidylinositol 3â€kinase SH3 domain as model system. Journal of Peptide Science, 2009, 15, 411-416.	0.8	6
105	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. Journal of the American Chemical Society, 2009, 131, 1398-1400.	6.6	44
106	Four-electron Reduction of Dioxygen by a Multicopper Oxidase, CueO, and Roles of Asp112 and Glu506 Located Adjacent to the Trinuclear Copper Center. Journal of Biological Chemistry, 2009, 284, 14405-14413.	1.6	66
107	Controlled Production of Amyloid β Peptide from a Photoâ€Triggered, Waterâ€Soluble Precursor "Click Peptide". ChemBioChem, 2008, 9, 3055-3065.	1.3	38
108	Construction of Giant Porphyrin Macrorings Selfâ€Assembled from Thiophenyleneâ€Linked Bisporphyrins for Lightâ€Harvesting Antennae. Chemistry - A European Journal, 2008, 14, 10735-10744.	1.7	26

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109	Syntheses, Characterization, and Reactivities of (î¼â€î ² :î ² â€Disulfido)dicopper(II) Complexes with <i>N</i> â€Alkylated <i>cis</i> , <i>cis</i> , <i>cis</i> ,3,5â€Triaminocyclohexane Derivatives. European Journal of Inorganic Chemistry, 2008, 2008, 3977-3986.	1.0	4
110	Development of novel water-soluble photocleavable protective group and its application for design of photoresponsive paclitaxel prodrugs. Bioorganic and Medicinal Chemistry, 2008, 16, 5389-5397.	1.4	67
111	Stable supramolecular complex of porphyrin macroring with pyridyl and fullerenyl ligands. Tetrahedron Letters, 2008, 49, 5484-5487.	0.7	14
112	Evaluation of the Functional Role of the Heme-6-propionate Side Chain in Cytochrome P450cam. Journal of the American Chemical Society, 2008, 130, 432-433.	6.6	20
113	Formation of a Bridged Butterfly-Type î½-î- ² :î- ² -Peroxo Dicopper Core Structure with a Carboxylate Group. Journal of the American Chemical Society, 2008, 130, 16444-16445.	6.6	40
114	H-atom abstraction reaction for organic substrates via mononuclear copper (ii)-superoxo species as a model for $D\hat{l}^2M$ and PHM. Dalton Transactions, 2008, , 164-170.	1.6	35
115	A Supramolecular Receptor of Diatomic Molecules (O ₂ , CO, NO) in Aqueous Solution. Journal of the American Chemical Society, 2008, 130, 8006-8015.	6.6	45
116	Photocontrol of Spatial Orientation and DNA Cleavage Activity of Copper(II)-Bound Dipeptides Linked by an Azobenzene Derivative. Inorganic Chemistry, 2008, 47, 5045-5047.	1.9	41
117	A New Class of Sulfido/Oxo(dithiolene)â^Molybdenum(IV) Complexes Derived from Sulfido/Oxo-Bis(tetrasulfido)molybdenum(IV) Anions. Inorganic Chemistry, 2008, 47, 10150-10157.	1.9	12
118	Molecular Basis of the Bohr Effect in Arthropod Hemocyanin. Journal of Biological Chemistry, 2008, 283, 31941-31948.	1.6	13
119	Thermodynamics of apoplastocyanin folding: Comparison between experimental and theoretical results. Journal of Chemical Physics, 2008, 128, 225104.	1.2	85
120	2P-054 Allosteric effect of arthropod hemocyanin studied by laser flash photolysis(The 46th Annual) Tj ETQq0 0 (O rgBT /Ov	erlock 10 Tf 5
121	Thermodynamical properties of reaction intermediates during apoplastocyanin folding in time domain. Journal of Chemical Physics, 2007, 127, 175103.	1.2	31
122	Structure and Ligand Binding Properties of Myoglobins Reconstituted with Monodepropionated Heme:  Functional Role of Each Heme Propionate Side Chain,. Biochemistry, 2007, 46, 9406-9416.	1,2	42
123	Trapping of a Dopaquinone Intermediate in the TPQ Cofactor Biogenesis in a Copper-Containing Amine Oxidase from <i>Arthrobacter globiformis </i> . Journal of the American Chemical Society, 2007, 129, 11524-11534.	6.6	39
124	Conformational Changes during Apoplastocyanin Folding Observed by Photocleavable Modification and Transient Grating. Journal of the American Chemical Society, 2006, 128, 7551-7558.	6.6	34
125	"Click Peptide―Based on the "O-Acyl Isopeptide Method― Control of Aβ1Ⱂ42 Production from a Photo-Triggered Aβ1Ⱂ42 Analogue. Journal of the American Chemical Society, 2006, 128, 696-697.	6.6	110
126	Kinetic and Structural Studies on the Catalytic Role of the Aspartic Acid Residue Conserved in Copper Amine Oxidaseâ€,‡. Biochemistry, 2006, 45, 4105-4120.	1,2	50

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127	Iron Porphyrinâ^'Cyclodextrin Supramolecular Complex as a Functional Model of Myoglobin in Aqueous Solution. Inorganic Chemistry, 2006, 45, 4448-4460.	1.9	84
128	Molecular Motions of .ALPHACyclodextrin on a Dodecyl Chain Studied by Molecular Dynamics Simulations. Chemical and Pharmaceutical Bulletin, 2006, 54, 528-534.	0.6	5
129	Masking Mechanisms of Bitter Taste of Drugs Studied with Ion Selective Electrodes. Chemical and Pharmaceutical Bulletin, 2006, 54, 1155-1161.	0.6	29
130	â€~Click peptide': a novel â€~O-acyl isopeptide method' for peptide synthesis and chemical biology-oriente synthesis of amyloid β peptide analogues. Journal of Peptide Science, 2006, 12, 823-828.	ed 0.8	30
131	Development of first photoresponsive prodrug of paclitaxel. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 4492-4496.	1.0	55
132	Micelle formation of bile salts and zwitterionic derivative as studied by two-dimensional NMR spectroscopy. Chemistry and Physics of Lipids, 2006, 142, 43-57.	1.5	40
133	Reduction of plastocyanin by tyrosine-containing oligopeptides. Journal of Inorganic Biochemistry, 2006, 100, 1871-1878.	1.5	0
134	A Myoglobin Functional Model Composed of a Ferrous Porphyrin and a Cyclodextrin Dimer with an Imidazole Linker. Chemistry - an Asian Journal, 2006, 1, 358-366.	1.7	22
135	Dioxygen Binding to a Cobalt(II) Porphycene Complex and Its Auto-Oxidized Cobalt(III) Complex. Bulletin of the Chemical Society of Japan, 2005, 78, 1619-1623.	2.0	5
136	Activation Process of [NiFe] Hydrogenase Elucidated by High-Resolution X-Ray Analyses: Conversion of the Ready to the Unready State. Structure, 2005, 13, 1635-1642.	1.6	248
137	Dioxygen Binding to a Simple Myoglobin Model in Aqueous Solution. Angewandte Chemie - International Edition, 2005, 44, 435-438.	7.2	80
138	Reduction of ferricytochrome c by tyrosyltyrosylphenylalanine. Journal of Biological Inorganic Chemistry, 2005, 10, 355-363.	1.1	1
139	Oxygen Binding to Tyrosinase from Streptomyces antibioticus Studied by Laser Flash Photolysis. Journal of the American Chemical Society, 2005, 127, 17966-17967.	6.6	18
140	Reinvestigation of Metal Ion Specificity for Quinone Cofactor Biogenesis in Bacterial Copper Amine Oxidase,. Biochemistry, 2005, 44, 12041-12048.	1,2	25
141	Reply to the Comment on "Two-Dimensional NMR Study on the Structures of Micelles of Sodium Taurocholateâ€, Journal of Physical Chemistry B, 2005, 109, 9851-9852.	1.2	11
142	Heme Reduction by Intramolecular Electron Transfer in Cysteine Mutant Myoglobin under Carbon Monoxide Atmosphere. Biochemistry, 2005, 44, 10322-10327.	1,2	17
143	Elucidation of Protein Folding with the Use of a Photo-Cleavable Modification Group. Seibutsu Butsuri, 2005, 45, 207-210.	0.0	O
144	Role of the non-protein ligand at the Ni-Fe active site of [NiFe] hydrogenase. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c216-c216.	0.3	0

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145	Synthesis, Structure, and Greatly Improved Reversible O2 Binding in a Structurally Modulatedî¼-ĥ2:ĥ2-Peroxodicopper(II) Complex with Room-Temperature Stability. Angewandte Chemie - International Edition, 2004, 43, 334-337.	7.2	66
146	Interaction of plastocyanin with oligopeptides: effect of lysine distribution within the peptide. Journal of Inorganic Biochemistry, 2004, 98, 849-855.	1.5	1
147	Chemical Rescue of a Site-Specific Mutant of Bacterial Copper Amine Oxidase for Generation of the Topa Quinone Cofactorâ€. Biochemistry, 2004, 43, 2178-2187.	1.2	20
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