

# Coordination geometries of selected transition metal io

Journal of Inorganic Biochemistry

71, 115-127

DOI: [10.1016/s0162-0134\(98\)10042-9](https://doi.org/10.1016/s0162-0134(98)10042-9)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Chelated mercury as a ligand in immobilized metal ion affinity chromatography of proteins. <i>Journal of Chromatography A</i> , 2000, 904, 131-143.	1.8	12
2	Determination of the binding sites of the proton transfer inhibitors Cd <sup>2+</sup> and Zn <sup>2+</sup> in bacterial reaction centers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 1542-1547.	3.3	123
3	Bioremediation of Heavy Metal Pollution Exploiting Constituents, Metabolites and Metabolic Pathways of Livings. A Review. <i>Collection of Czechoslovak Chemical Communications</i> , 2000, 65, 1205-1247.	1.0	22
4	Ab Initio calculations of [CoY6 <sup>n</sup> Xn] <sup>2+</sup> complexes. <i>Journal of Chemical Physics</i> , 2000, 112, 149-157.	1.2	22
5	Activation of Estrogen Receptor- $\beta$ by the Heavy Metal Cadmium. <i>Molecular Endocrinology</i> , 2000, 14, 545-553.	3.7	359
6	Determination of the Structure of Escherichia coli Glyoxalase I Suggests a Structural Basis for Differential Metal Activation. <i>Biochemistry</i> , 2000, 39, 8719-8727.	1.2	154
7	The Structure of the Metal-Binding Motif GMTCAAC Is Similar in an 18-Residue Linear Peptide and the Mercury Binding Protein MerP. <i>Journal of the American Chemical Society</i> , 2000, 122, 2389-2390.	6.6	55
8	Theoretical Studies of Metal Ion Selectivity. 1. DFT Calculations of Interaction Energies of Amino Acid Side Chains with Selected Transition Metal Ions (Co <sup>2+</sup> , Ni <sup>2+</sup> , Cu <sup>2+</sup> , Zn <sup>2+</sup> , Cd <sup>2+</sup> , and Hg <sup>2+</sup> ). <i>Journal of the American Chemical Society</i> , 2000, 122, 10428-10439.	6.6	179
9	Allosteric Inhibition of Rat Liver and Kidney Arginase by Copper and Mercury Ions. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2001, 16, 443-449.	0.5	13
10	In-frame fusion of a His-Cys motif into the Pseudomonas aeruginosa outer membrane OprL lipoprotein results in increased metal binding capacity by Escherichia coli. <i>Research in Microbiology</i> , 2001, 152, 799-804.	1.0	7
11	CD spectroscopic study on the speciation and solution structure of copper(II) complexes of some tripeptides in combination with potentiometric and spectrophotometric results. <i>Journal of Inorganic Biochemistry</i> , 2001, 85, 89-98.	1.5	12
12	Solid state synthesis, characterization and thermogravimetric study of the adducts CoCl <sub>2</sub> ·6L (L = Tj ETQq1 1 0.784314 rgBT <sub>13</sub> /Overlock	1.2	13
13	Fluorescence-based biosensing of zinc using carbonic anhydrase. <i>BioMetals</i> , 2001, 14, 205-222.	1.8	81
14	Location and Orientation of minK within the IKs Potassium Channel Complex. <i>Journal of Biological Chemistry</i> , 2001, 276, 38249-38254.	1.6	68
15	Energetics of transition-metal ions in low-coordination environments. <i>Physical Review B</i> , 2002, 66, .	1.1	2
16	A Nickel-Cobalt-sensing ArsR-SmtB Family Repressor. <i>Journal of Biological Chemistry</i> , 2002, 277, 38441-38448.	1.6	134
17	Theoretical Studies of Metal Ion Selectivity. 2. DFT Calculations of Complexation Energies of Selected Transition Metal Ions (Co <sup>2+</sup> , Ni <sup>2+</sup> , Cu <sup>2+</sup> , Zn <sup>2+</sup> , Cd <sup>2+</sup> , and Hg <sup>2+</sup> ) in Metal-Binding Sites of Metalloproteins. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3855-3866.	1.1	59
18	Factors Governing the Protonation State of Cysteines in Proteins: An Ab Initio/CDM Study. <i>Journal of the American Chemical Society</i> , 2002, 124, 6759-6766.	6.6	100

#	ARTICLE	IF	CITATIONS
19	Enthalpy analysis of horseradish peroxidase in the presence of Ni <sup>2+</sup> : a stabilization study. <i>Thermochimica Acta</i> , 2002, 385, 33-39.	1.2	10
20	Coagulation of Zinc-modified Hemoglobin. <i>Russian Journal of General Chemistry</i> , 2002, 72, 1645-1649.	0.3	5
21	Effect of Mn <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> , and Cu <sup>2+</sup> on Horseradish Peroxidase : Activation, Inhibition, and Denaturation Studies. <i>Applied Biochemistry and Biotechnology</i> , 2003, 104, 81-94.	1.4	32
22	Structural description of the active sites of mouse L-chain ferritin at 1.2Å resolution. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 105-111.	1.1	63
23	Potential binding modes of beryllium with the class II major histocompatibility complex HLA-DP: a combined theoretical and structural database study. <i>Journal of Inorganic Biochemistry</i> , 2003, 94, 5-13.	1.5	36
24	The SmtB/ArsR family of metalloregulatory transcriptional repressors: structural insights into prokaryotic metal resistance. <i>FEMS Microbiology Reviews</i> , 2003, 27, 131-143.	3.9	350
25	Outer-Shell and Inner-Shell Coordination of Phosphate Group to Hydrated Metal Ions (Mg <sup>2+</sup> , Cu <sup>2+</sup> ). <i>Journal of Physical Chemistry B</i> , 2003, 107, 1913-1923.	1.2	79
26	Principles Governing Mg, Ca, and Zn Binding and Selectivity in Proteins. <i>Chemical Reviews</i> , 2003, 103, 773-788.	23.0	421
27	Structure and Magnetic Properties of Layered High-Spin Co(II)(l-threonine) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> . <i>Inorganic Chemistry</i> , 2003, 42, 4409-4416.	1.9	58
28	Theoretical Studies of Metal Ion Selectivity. 3. A Theoretical Design of the Most Specific Combinations of Functional Groups Representing Amino Acid Side Chains for the Selected Metal Ions (Co <sup>2+</sup> , Ni <sup>2+</sup> ). <i>Journal of Biological Chemistry</i> , 2003, 278, 44560-44566.	1.6	74
29	First- and Second Shell Interactions in Metal Binding Sites in Proteins: A PDB Survey and DFT/CDM Calculations. <i>Journal of the American Chemical Society</i> , 2003, 125, 3168-3180.	6.6	189
30	A Cadmium-Lead-sensing ArsR-SmtB Repressor with Novel Sensory Sites. <i>Journal of Biological Chemistry</i> , 2003, 278, 44560-44566.	1.6	74
31	Metal Binding and Selectivity in Zinc Proteins. <i>Journal of the Chinese Chemical Society</i> , 2003, 50, 1093-1102.	0.8	33
32	Identification of Metal-binding Proteins in Human Hepatoma Lines by Immobilized Metal Affinity Chromatography and Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2003, 2, 1306-1318.	2.5	93
33	Evidence for Intersubunit Interactions between S4 and S5 Transmembrane Segments of the Shaker Potassium Channel. <i>Journal of Biological Chemistry</i> , 2003, 278, 29079-29085.	1.6	40
34	Improved thermal stability of Langmuir-Blodgett films through an intermolecular hydrogen bond and metal complex. <i>Journal of Chemical Physics</i> , 2004, 120, 379-383.	1.2	9
35	Dinickel Complexes Bridged by Unusual (N,O,O)-Coordinated $\beta$ -Amino Acids: Syntheses, Structural Characterization and Magnetic Properties. <i>Transition Metal Chemistry</i> , 2004, 29, 411-418.	0.7	18
36	Characterization and Comparison of Metal Accumulation in Two <i>Escherichia coli</i> Strains Expressing Either CopA or MntA, Heavy Metal-Transporting Bacterial P-Type Adenosine Triphosphatases. <i>Applied Biochemistry and Biotechnology</i> , 2004, 117, 33-48.	1.4	10

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37	Higher Metal <sup>2+</sup> Ligand Coordination in the Catalytic Site of Cobalt-Substituted <i>Thermoanaerobacter brockii</i> Alcohol Dehydrogenase Lowers the Barrier for Enzyme Catalysis. <i>Biochemistry</i> , 2004, 43, 7151-7161.	1.2	24
38	Effect of cadmium on ferredoxin:NADP <sup>+</sup> oxidoreductase activity. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1338-1346.	1.5	15
39	Monodentate versus Bidentate Carboxylate Binding in Magnesium and Calcium Proteins: What Are the Basic Principles?. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4546-4557.	1.2	114
40	Selectivity of Metal Binding and Metal-Induced Stability of <i>Escherichia coli</i> NikR. <i>Biochemistry</i> , 2004, 43, 10018-10028.	1.2	88
41	Probing Determinants of the Metal Ion Selectivity in Carbonic Anhydrase Using Mutagenesis. <i>Biochemistry</i> , 2004, 43, 3979-3986.	1.2	69
42	Metal-Selective DNA-Binding Response of <i>Escherichia coli</i> NikR. <i>Biochemistry</i> , 2004, 43, 10029-10038.	1.2	77
43	A comparison of the coordination geometries of some 4-methylimidazole-5-carbaldehyde complexes with Zn(II), Cd(II) and Co(II) ions in the solid state and aqueous solution. <i>Polyhedron</i> , 2005, 24, 627-637.	1.0	20
44	Metal remediation and preconcentration using immobilized short-chain peptides composed of aspartic acid and cysteine. <i>Microchemical Journal</i> , 2005, 81, 69-80.	2.3	24
45	Molecular mapping of a site for Cd <sup>2+</sup> -induced modification of human ether- $\gamma$ -go-go-related gene (hERG) channel activation. <i>Journal of Physiology</i> , 2005, 567, 737-755.	1.3	26
46	Dynamic conformational changes of extracellular S5-P linkers in the hERG channel. <i>Journal of Physiology</i> , 2005, 569, 75-89.	1.3	51
47	Disturbances on Delta aminolevulinate dehydratase (ALA-D) enzyme activity by Pb <sup>2+</sup> , Cd <sup>2+</sup> , Cu <sup>2+</sup> , Mg <sup>2+</sup> , Zn <sup>2+</sup> , Na <sup>+</sup> , K <sup>+</sup> and Li <sup>+</sup> : analysis based on coordination geometry and acid-base Lewis capacity. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 409-414.	1.5	17
48	Protease digestion analysis of <i>Escherichia coli</i> NikR: evidence for conformational stabilization with Ni(II). <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 605-612.	1.1	24
49	Stability of Copper(II), Nickel(II) and Zinc(II) Binary and Ternary Complexes of Histidine, Histamine and Glycine in Aqueous Solution. <i>Journal of Solution Chemistry</i> , 2005, 34, 213-231.	0.6	46
50	The crystal structure of 5-keto-4-deoxyuronate isomerase from <i>Escherichia coli</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 680-684.	1.5	9
51	Structure and Anticipatory Movements of the S6 Gate in K <sup>v</sup> Channels. <i>Journal of General Physiology</i> , 2005, 126, 413-417.	0.9	12
52	Application of immobilized metal affinity chromatography in proteomics. <i>Expert Review of Proteomics</i> , 2005, 2, 649-657.	1.3	76
53	Interfacial metal and antibody recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14575-14580.	3.3	29
54	Characterization of the Redox and Metal Binding Activity of BsSco, a Protein Implicated in the Assembly of Cytochrome c Oxidase. <i>Biochemistry</i> , 2005, 44, 16949-16956.	1.2	32

#	ARTICLE	IF	CITATIONS
55	Sequence of Ligand Binding and Structure Change in the Diphtheria Toxin Repressor upon Activation by Divalent Transition Metals. <i>Biochemistry</i> , 2005, 44, 5672-5682.	1.2	22
56	Computational tools for the analysis of heteroatom groups and their neighbours in protein tertiary structure. <i>International Journal of Biological Macromolecules</i> , 2005, 37, 35-41.	3.6	3
57	IRRAS Studies on Chain Orientation in the Monolayers of Amino Acid Amphiphiles at the Air/Water Interface Depending on Metal Complex and Hydrogen Bond Formation with the Headgroups. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7428-7434.	1.2	38
58	Structure of Phenoxazinone Synthase from <i>Streptomyces antibioticus</i> Reveals a New Type 2 Copper Center. <i>Biochemistry</i> , 2006, 45, 4378-4387.	1.2	107
59	Competition between Protein Ligands and Cytoplasmic Inorganic Anions for the Metal Cation: A DFT/CDM Study. <i>Journal of the American Chemical Society</i> , 2006, 128, 10541-10548.	6.6	13
60	A DFT/CDM Study of Metal-Carboxylate Interactions in Metalloproteins: Factors Governing the Maximum Number of Metal-Bound Carboxylates. <i>Journal of the American Chemical Society</i> , 2006, 128, 1553-1561.	6.6	55
61	Kinetic analysis of the effects of monovalent cations and divalent metals on the activity of <i>Mycobacterium tuberculosis</i> $\beta$ -isopropylmalate synthase. <i>Archives of Biochemistry and Biophysics</i> , 2006, 451, 141-148.	1.4	23
62	Structural and Electronic Characterization of the Complexes Obtained by the Interaction between Bare and Hydrated First-Row Transition-Metal Ions ( $Mn^{2+}$ , $Fe^{2+}$ , $Co^{2+}$ , $Ni^{2+}$ , $Cu^{2+}$ , $Zn^{2+}$ ) and Glycine. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24666-24673.	1.2	106
63	Factors Governing the Metal Coordination Number in Metal Complexes from Cambridge Structural Database Analyses. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1889-1895.	1.2	117
64	Computational Studies of the Coordination Stereochemistry, Bonding, and Metal Selectivity of Mercury. <i>Journal of Physical Chemistry A</i> , 2006, 110, 452-462.	1.1	43
65	Electron capture dissociation of peptides metalated with alkaline-earth metal ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 757-771.	1.2	54
66	A study of the coordination shell of aluminum(III) and magnesium(II) in model protein environments: Thermodynamics of the complex formation and metal exchange reactions. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 374-384.	1.5	40
67	Metal ion selectivity of hydroxamates: A density functional study. <i>Computational and Theoretical Chemistry</i> , 2006, 767, 175-184.	1.5	17
68	Proteomics of Metal Transport and Metal-Associated Diseases. <i>Chemistry - A European Journal</i> , 2006, 12, 2410-2422.	1.7	46
69	Molecular and Functional Differences between Heart $mKv1.7$ Channel Isoforms. <i>Journal of General Physiology</i> , 2006, 128, 133-145.	0.9	31
70	NikR-operator complex structure and the mechanism of repressor activation by metal ions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13676-13681.	3.3	117
71	Metal sensor proteins: nature's metalloregulated allosteric switches. <i>Dalton Transactions</i> , 2007, , 3107.	1.6	178
72	On the Copper(II) Ion Coordination by Prion Protein HGGGW Pentapeptide Model. <i>Journal of Physical Chemistry B</i> , 2007, 111, 635-640.	1.2	34

#	ARTICLE	IF	CITATIONS
73	Stability of Different Zinc(II)-Diamine Complexes in Aqueous Solution with Respect to Structure and Dynamics: A QM/MM MD Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 151-158.	1.2	21
74	Controlled Binding of $\alpha$ -Cysteinato Cobalt(III) Octahedron to a Cadmium(II) Center. <i>Inorganic Chemistry</i> , 2007, 46, 1343-1353.	1.9	17
75	Assessment of Approximate Density Functional Methods for the Study of the Interactions of Al(III) with Aromatic Amino Acids. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 1830-1836.	2.3	8
76	Synthesis, Crystal Structures and Properties of Two Novel Co(II) and Cd(II) Complexes of N-Acetyl-L-glutamic Acid and Imidazole Ligands. <i>Chinese Journal of Chemistry</i> , 2007, 25, 498-502.	2.6	3
77	Protein Side Chains Facilitate Mg/Al Exchange in Model Protein Binding Sites. <i>ChemPhysChem</i> , 2007, 8, 2119-2124.	1.0	22
78	Reversed-phase high-performance liquid chromatographic separation of inorganic mercury and methylmercury driven by their different coordination chemistry towards thiols. <i>Journal of Chromatography A</i> , 2007, 1156, 331-339.	1.8	37
79	Three new 2-D metal-organic frameworks containing 1-D metal chains bridged by N-benzenesulfonyl-glutamic acid: Syntheses, crystal structures and properties. <i>Journal of Solid State Chemistry</i> , 2007, 180, 1648-1657.	1.4	17
80	A theoretical study of the principles regulating the specificity for Al(III) against Mg(II) in protein cavities. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1192-1200.	1.5	31
81	Accounting for ligand-bound metal ions in docking small molecules on adenyl cyclase toxins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 67, 593-605.	1.5	58
82	Modeling of metal interaction geometries for protein-ligand docking. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 71, 1237-1254.	1.5	60
83	Distinct characteristics of Ag <sup>+</sup> and Cd <sup>2+</sup> binding to CopZ from <i>Bacillus subtilis</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 1011-1023.	1.1	18
84	Molecular Design of Specific Metal-Binding Peptide Sequences from Protein Fragments: Theory and Experiment. <i>Chemistry - A European Journal</i> , 2008, 14, 7836-7846.	1.7	16
85	Data mining of metal ion environments present in protein structures. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 1765-1776.	1.5	273
86	Thermodynamic Stability Versus Kinetic Lability of ZnS <sub>4</sub> Core. <i>Chemistry - an Asian Journal</i> , 2010, 5, 1445-1454.	1.7	8
87	Consideration and influence of complexed forms of mercury species on the reactivity patterns determined by speciated isotope dilution model approaches: A case for natural biological reference materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 385-396.	1.6	17
88	Structural Basis of the Metal Specificity for Nickel Regulatory Protein NikR. <i>Biochemistry</i> , 2008, 47, 1938-1946.	1.2	54
89	Atomic Constraints between the Voltage Sensor and the Pore Domain in a Voltage-gated K <sup>+</sup> Channel of Known Structure. <i>Journal of General Physiology</i> , 2008, 131, 549-561.	0.9	27
90	An Oxidized Tryptophan Facilitates Copper Binding in <i>Methylococcus capsulatus</i> -secreted Protein MopE. <i>Journal of Biological Chemistry</i> , 2008, 283, 13897-13904.	1.6	45

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91	An Extracellular Cu <sup>2+</sup> Binding Site in the Voltage Sensor of BK and Shaker Potassium Channels. <i>Journal of General Physiology</i> , 2008, 131, 483-502.	0.9	38
92	Mono- (Ag, Hg) and di- (Cu, Hg) valent metal ions effects on the activity of jack bean urease. Probing the modes of metal binding to the enzyme. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2008, 23, 535-542.	2.5	112
93	Mapping of a copper-binding site on the small CP12 chloroplastic protein of <i>Chlamydomonas reinhardtii</i> using top-down mass spectrometry and site-directed mutagenesis. <i>Biochemical Journal</i> , 2009, 419, 75-86.	1.7	30
94	Structural basis for the specialization of Nur, a nickel-specific Fur homolog, in metal sensing and DNA recognition. <i>Nucleic Acids Research</i> , 2009, 37, 3442-3451.	6.5	59
95	Cadmium – A metallohormone?. <i>Toxicology and Applied Pharmacology</i> , 2009, 238, 266-271.	1.3	153
96	Protein Flexibility and Metal Coordination Changes in DHAP-Dependent Aldolases. <i>Chemistry - A European Journal</i> , 2009, 15, 1422-1428.	1.7	16
97	Probing S4 and S5 segment proximity in mammalian hyperpolarization-activated HCN channels by disulfide bridging and Cd <sup>2+</sup> coordination. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 458, 259-272.	1.3	9
98	Molecular Determinants of Multiple Effects of Nickel on NMDA Receptor Channels. <i>Neurotoxicity Research</i> , 2009, 15, 38-48.	1.3	15
99	Structure of laminin-binding adhesin (Lmb) from <i>Streptococcus agalactiae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009, 65, 1262-1269.	2.5	32
100	Metalloproteins and metal sensing. <i>Nature</i> , 2009, 460, 823-830.	13.7	1,031
101	Gas phase and solution state stability of complexes L <sup>+</sup>   M, where M=Cu <sup>2+</sup> , Ni <sup>2+</sup> , or Zn <sup>2+</sup> and L=R <sup>+</sup> C(O)NHOH (R=H, NH <sub>2</sub> , CH <sub>3</sub> , CF <sub>3</sub> , or Phenyl). <i>Computational and Theoretical Chemistry</i> , 2009, 911, 137-143.	1.5	10
102	Synthesis, chemical speciation and SOD mimic assays of tricarballylic acid-copper(II) and imidazole-tricarballylic acid-copper(II) complexes. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 219-226.	1.5	12
103	Physical Basis of Metal-Binding Specificity in <i>Escherichia coli</i> NikR. <i>Journal of the American Chemical Society</i> , 2009, 131, 10220-10228.	6.6	14
104	Linear Energy Relationships for the Octahedral Preference of Mg, Ca and Transition Metal Ions. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3588-3593.	1.1	10
105	Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> , Cu <sup>2+</sup> , and Zn <sup>2+</sup> -Binding Chalcogen-Chalcogen Bridges: A Compared MP2 and B3LYP Study. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7878-7887.	1.1	20
106	Divalent Cations Slow Activation of EAG Family K <sup>+</sup> Channels through Direct Binding to S4. <i>Biophysical Journal</i> , 2009, 97, 110-120.	0.2	22
107	Factors Governing Metal-Ligand Distances and Coordination Geometries of Metal Complexes. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2952-2960.	1.2	106
108	Mutations at the Signature Sequence of CFTR Create a Cd <sup>2+</sup> -gated Chloride Channel. <i>Journal of General Physiology</i> , 2009, 133, 69-77.	0.9	9

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109	On the metal ion (Zn <sup>2+</sup> , Cu <sup>2+</sup> ) coordination with beta-amyloid peptide: DFT computational study. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2010, 2, 57-69.	2.2	31
110	Cu <sup>2+</sup> binding chalcogenâ€“chalcogen bridges: A problematic case for DFT. <i>Computational and Theoretical Chemistry</i> , 2010, 954, 7-15.	1.5	12
111	Zn <sup>2+</sup> Activates Large Conductance Ca <sup>2+</sup> -activated K <sup>+</sup> Channel via an Intracellular Domain. <i>Journal of Biological Chemistry</i> , 2010, 285, 6434-6442.	1.6	36
112	Modification of hERG1 channel gating by Cd <sup>2+</sup> . <i>Journal of General Physiology</i> , 2010, 136, 203-224.	0.9	24
113	Mutation of outer-shell residues modulates metal ion co-ordination strength in a metalloenzyme. <i>Biochemical Journal</i> , 2010, 429, 313-321.	1.7	18
114	Pore-opening mechanism in trimeric P2X receptor channels. <i>Nature Communications</i> , 2010, 1, 44.	5.8	89
115	Structural Basis of Low-Affinity Nickel Binding to the Nickel-Responsive Transcription Factor NikR from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2010, 49, 7830-7838.	1.2	24
116	Potassium Is Critical for the Ni(II)-Responsive DNA-Binding Activity of <i>Escherichia coli</i> NikR. <i>Journal of the American Chemical Society</i> , 2010, 132, 1506-1507.	6.6	14
117	Inhibition studies of soybean ( <i>Glycine max</i> ) urease with heavy metals, sodium salts of mineral acids, boric acid, and boronic acids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2010, 25, 646-652.	2.5	26
118	Labeling of Specific Cysteines in Proteins Using Reversible Metal Protection. <i>Biophysical Journal</i> , 2011, 100, 2513-2521.	0.2	35
119	Bacterial Surface Display of Metal-Binding Sites. , 2011, , 249-283.		2
120	Endonuclease Active Site Plasticity Allows DNA Cleavage with Diverse Alkaline Earth and Transition Metal Ions. <i>ACS Chemical Biology</i> , 2011, 6, 934-942.	1.6	8
121	Microbial Biosorption of Metals. , 2011, , .		65
122	A new chiral, poly-imidazole N8-ligand and the related di- and tri-copper(ii) complexes: synthesis, theoretical modelling, spectroscopic properties, and biomimetic stereoselective oxidations. <i>Dalton Transactions</i> , 2011, 40, 5436.	1.6	24
123	Interaction of Metal Ions with Biomolecular Ligands: How Accurate Are Calculated Free Energies Associated with Metal Ion Complexation?. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11394-11402.	1.1	40
124	Computational investigation of the histidine ammonia-lyase reaction: a modified loop conformation and the role of the zinc(II) ion. <i>Journal of Molecular Modeling</i> , 2011, 17, 1551-1563.	0.8	15
125	Transition Metal Ions: Charge Carriers that Mediate the Electron Capture Dissociation Pathways of Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 2232-2245.	1.2	25
126	Formation of Peptide Radical Cations (M+Â·) in Electron Capture Dissociation of Peptides Adducted with Group IIB Metal Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 233-244.	1.2	22

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127	Interaction of the Mn <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> , and Zn <sup>2+</sup> with prion protein HGGGW pentapeptide model. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 1152-1162.	1.0	8
128	Structural and thermodynamic consequences of the replacement of zinc with environmental metals on estrogen receptor DNA interactions. <i>Journal of Molecular Recognition</i> , 2011, 24, 1007-1017.	1.1	27
129	The Zinc-Dependent Fluorescence of a Synthetic GFP-Like Chromophore in Organic Solvents. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 5322-5327.	1.0	4
130	Thermostable alkaline phytase from <i>Bacillus</i> sp. MD2: Effect of divalent metals on activity and stability. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1000-1007.	1.5	28
131	External Cu <sup>2+</sup> Inhibits Human Epithelial Na <sup>+</sup> Channels by Binding at a Subunit Interface of Extracellular Domains. <i>Journal of Biological Chemistry</i> , 2011, 286, 27436-27446.	1.6	26
132	FindGeo: a tool for determining metal coordination geometry. <i>Bioinformatics</i> , 2012, 28, 1658-1660.	1.8	45
133	The crystal structure of human $\beta$ 1-microglobulin reveals a potential haem-binding site. <i>Biochemical Journal</i> , 2012, 445, 175-182.	1.7	32
134	Metal-Mediated Affinity and Orientation Specificity in a Computationally Designed Protein Homodimer. <i>Journal of the American Chemical Society</i> , 2012, 134, 375-385.	6.6	95
135	Metal-Ion Dependent Catalytic Properties of <i>Sulfolobus solfataricus</i> Class II $\beta$ -Mannosidase. <i>Biochemistry</i> , 2012, 51, 8039-8046.	1.2	6
136	Electrochemical synthesis and crystal structure of zinc(II) complexes with N <sub>2</sub> N'-bis(2S <sub>2</sub> amide)-thioether hexadentate ligands. <i>Polyhedron</i> , 2012, 41, 115-119.	1.0	11
137	Multiple Sensor Array of Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> , Cu <sup>2+</sup> , and Zn <sup>2+</sup> Complexes of a Triazole Linked Imino-Phenol Based Calix[4]arene Conjugate for the Selective Recognition of Asp, Glu, Cys, and His. <i>Analytical Chemistry</i> , 2012, 84, 8294-8300.	3.2	52
138	Voltage-dependent conformational changes in connexin channels. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1807-1822.	1.4	59
139	Crystal structure of <i>Helicobacter pylori</i> neutrophil-activating protein with a di-nuclear ferroxidase center in a zinc or cadmium-bound form. <i>Biochemical and Biophysical Research Communications</i> , 2012, 422, 745-750.	1.0	12
140	Fluorescent Labeling of Specific Cysteine Residues Using CyMPL. <i>Current Protocols in Protein Science</i> , 2012, 70, Unit14.14.	2.8	2
141	Metallothionein Zn <sup>2+</sup> - and Cu <sup>2+</sup> -clusters from first-principles calculations. <i>Dalton Transactions</i> , 2012, 41, 2247-2256.	1.6	8
143	The protein gp74 from the bacteriophage HK97 functions as a HNH endonuclease. <i>Protein Science</i> , 2012, 21, 809-818.	3.1	30
144	Tracking a complete voltage-sensor cycle with metal-ion bridges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8552-8557.	3.3	132
145	Protein-inorganic hybrid nanoflowers. <i>Nature Nanotechnology</i> , 2012, 7, 428-432.	15.6	947

#	ARTICLE	IF	CITATIONS
146	Stereoselective Formation of Chiral Metallopeptides. <i>Chemistry - A European Journal</i> , 2012, 18, 7030-7035.	1.7	30
147	Density functional study of substituted ( $\text{SH}$ , $\text{S}$ , $\text{OH}$ , $\text{Cl}$ ) hydrated ions of $\text{Hg}^{2+}$ . <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	12
148	Nickel Metallomics: General Themes Guiding Nickel Homeostasis. <i>Metal Ions in Life Sciences</i> , 2013, 12, 375-416.	2.8	37
149	Combining Chemical Labeling, Bottom-Up and Top-Down Ion-Mobility Mass Spectrometry To Identify Metal-Binding Sites of Partially Metalated Metallothionein. <i>Analytical Chemistry</i> , 2013, 85, 3229-3237.	3.2	43
150	Crystal structures of 26kDa <i>Clonorchis sinensis</i> glutathione S-transferase reveal zinc binding and putative metal binding. <i>Biochemical and Biophysical Research Communications</i> , 2013, 438, 457-461.	1.0	6
151	Predicting the Stability Constants of Metal-Ion Complexes from First Principles. <i>Inorganic Chemistry</i> , 2013, 52, 10347-10355.	1.9	57
152	Hydroxamic Acids. , 2013, , .		30
153	Density functional study of $\text{Cu}^{2+}$ -phenylalanine complex under micro-solvation environment. <i>Journal of Molecular Graphics and Modelling</i> , 2013, 45, 180-191.	1.3	10
154	Zinc Coordination Spheres in Protein Structures. <i>Inorganic Chemistry</i> , 2013, 52, 10983-10991.	1.9	205
155	Designing functional metalloproteins: From structural to catalytic metal sites. <i>Coordination Chemistry Reviews</i> , 2013, 257, 2565-2588.	9.5	109
156	The Structure of the Mercury Transporter MerF in Phospholipid Bilayers: A Large Conformational Rearrangement Results from N-Terminal Truncation. <i>Journal of the American Chemical Society</i> , 2013, 135, 9299-9302.	6.6	27
157	Balance of Coordination and Hydrophobic Interaction in the Formation of Bilayers in Metal-Coordinated Surfactant Mixtures. <i>Langmuir</i> , 2013, 29, 3538-3545.	1.6	10
158	$\text{Cd}^{2+}$ as a $\text{Ca}^{2+}$ Surrogate in Protein-Membrane Interactions: Isostructural but Not Isofunctional. <i>Journal of the American Chemical Society</i> , 2013, 135, 12980-12983.	6.6	12
159	Controlled self-assembly of CdTe quantum dots into different microscale dendrite structures by using proteins as templates. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15082.	5.2	6
160	Functional Identification of Close Proximity Amino Acid Side Chains within the Transmembrane-Spanning Helices of the P2X2 Receptor. <i>PLoS ONE</i> , 2013, 8, e70629.	1.1	6
161	Metal Ion Selectivity of Kojate Complexes: A Theoretical Study. <i>Journal of Theoretical Chemistry</i> , 2013, 1-9.	1.5	5
162	Atomic model of the F420-reducing [NiFe] hydrogenase by electron cryo-microscopy using a direct electron detector. <i>ELife</i> , 2014, 3, e01963.	2.8	132
163	Elemental bioimaging of tissue level trace metal distributions in rice seeds ( <i>Oryza sativa</i> L.) from a mining area in China. <i>Environmental Pollution</i> , 2014, 195, 148-156.	3.7	36

#	ARTICLE	IF	CITATIONS
164	Temperature-dependent morphology of hybrid nanoflowers from elastin-like polypeptides. <i>APL Materials</i> , 2014, 2, .	2.2	41
165	Metal Bridges Illuminate Transmembrane Domain Movements during Gating of the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel. <i>Journal of Biological Chemistry</i> , 2014, 289, 28149-28159.	1.6	12
166	Structures and Metal-Binding Properties of <i>Helicobacter pylori</i> Neutrophil-Activating Protein with a Di-Nuclear Ferroxidase Center. <i>Biomolecules</i> , 2014, 4, 600-615.	1.8	10
167	Competition among Metal Ions for Protein Binding Sites: Determinants of Metal Ion Selectivity in Proteins. <i>Chemical Reviews</i> , 2014, 114, 538-556.	23.0	329
168	External protons destabilize the activated voltage sensor in hERG channels. <i>European Biophysics Journal</i> , 2014, 43, 59-69.	1.2	12
169	Capturing distinct KCNQ2 channel resting states by metal ion bridges in the voltage-sensor domain. <i>Journal of General Physiology</i> , 2014, 144, 513-527.	0.9	11
170	Subcomponent self-assembly of polymer chains based on dynamic and geometrical coordination diversity of the first row transition metal ions. <i>Polymer Chemistry</i> , 2014, 5, 1202-1209.	1.9	17
171	Voltage- and ATP-dependent structural rearrangements of the P2X2 receptor associated with the gating of the pore. <i>Journal of Physiology</i> , 2014, 592, 4657-4676.	1.3	3
172	Ni(II)-Schiff base complex as an enzyme inhibitor of hen egg white lysozyme: a crystallographic and spectroscopic study. <i>Metallomics</i> , 2014, 6, 1737.	1.0	5
173	Automated identification of elemental ions in macromolecular crystal structures. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 1104-1114.	2.5	40
174	Natural antioxidants against lipid-protein oxidative deterioration in meat and meat products: A review. <i>Food Research International</i> , 2014, 64, 171-181.	2.9	589
175	Metal-Induced Conformational Changes of Human Metallothionein-2A: A Combined Theoretical and Experimental Study of Metal-Free and Partially Metalated Intermediates. <i>Journal of the American Chemical Society</i> , 2014, 136, 9499-9508.	6.6	67
176	In silico analysis of metal coordination geometry in arsenic, beryllium, and lead bound structures. <i>Journal of Coordination Chemistry</i> , 2014, 67, 1888-1904.	0.8	4
177	Designing Hydrolytic Zinc Metalloenzymes. <i>Biochemistry</i> , 2014, 53, 957-978.	1.2	126
178	Structural Refinement of Proteins by Restrained Molecular Dynamics Simulations with Non-interacting Molecular Fragments. <i>PLoS Computational Biology</i> , 2015, 11, e1004368.	1.5	26
179	Highly selective colorimetric and fluorescent detection for Hg <sup>2+</sup> in aqueous solutions using a dipeptide-based chemosensor. <i>RSC Advances</i> , 2015, 5, 56356-56361.	1.7	17
180	Nickel quercetinase, a promiscuous metalloenzyme: metal incorporation and metal ligand substitution studies. <i>BMC Biochemistry</i> , 2015, 16, 10.	4.4	35
181	How simple is too simple? Computational perspective on importance of second-shell environment for metal-ion selectivity. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14393-14404.	1.3	6

#	ARTICLE	IF	CITATIONS
182	Structure, Bonding, and Stability of Mercury Complexes with Thiolate and Thioether Ligands from High-Resolution XANES Spectroscopy and First-Principles Calculations. <i>Inorganic Chemistry</i> , 2015, 54, 11776-11791.	1.9	57
183	The Molecular Structure of Aqueous Hg(II)-EDTA As Determined by X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2878-2884.	1.1	17
184	Metal bridges to probe membrane ion channel structure and function. <i>Biomolecular Concepts</i> , 2015, 6, 191-203.	1.0	14
185	Distinct Metal Isoforms Underlie Promiscuous Activity Profiles of Metalloenzymes. <i>ACS Chemical Biology</i> , 2015, 10, 1684-1693.	1.6	42
186	Electronic structure of kaempferolâ€“Cu <sup>2+</sup> coordination compounds: a DFT, QTAIM and NBO study in the gas phase. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	0.5	5
187	Coordination properties of a metal chelator clioquinol to Zn <sup>2+</sup> studied by static DFT and ab initio molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13582-13589.	1.3	13
188	Mutational Analysis of Divalent Metal Ion Binding in the Active Site of Class II Î±-Mannosidase from <i>Sulfolobus solfataricus</i> . <i>Biochemistry</i> , 2015, 54, 2032-2039.	1.2	2
189	Ni/TiO <sub>2</sub> : A promising low-cost photocatalytic system for solar H <sub>2</sub> production from ethanolâ€“water mixtures. <i>Journal of Catalysis</i> , 2015, 326, 43-53.	3.1	162
190	Cadmiumâ€“cysteine coordination in the BK inner pore region and its structural and functional implications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5237-5242.	3.3	51
191	Functional characterization of a transition metal ion transporter, OsZIP6 from rice ( <i>Oryza sativa</i> L.). <i>Plant Physiology and Biochemistry</i> , 2015, 97, 165-174.	2.8	74
192	Modulation of the slow/common gating of CLC channels by intracellular cadmium. <i>Journal of General Physiology</i> , 2015, 146, 495-508.	0.9	9
193	Interaction between transition metals and phenylalanine: A combined experimental and computational study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 499-508.	2.0	23
194	Highly sensitive colorimetric detection of Hg <sup>II</sup> and Cu <sup>II</sup> in aqueous solutions: from amino acids toward solid platforms. <i>Analyst</i> , 2015, 140, 744-749.	1.7	27
195	Remediation of Heavy Metals by Biomolecules: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 1644-1704.	6.6	85
197	Quercetinâ€“2,4â€“Dioxygenase aktiviert Sauerstoff in einem â€œsideâ€“onâ€“gebundenen O <sub>2</sub> -Niâ€“Komplex. <i>Angewandte Chemie</i> , 2016, 128, 3339-3343.	1.6	6
198	What Is the Preferred Conformation of Phosphatidylserineâ€“Copper(II) Complexes? A Combined Theoretical and Experimental Investigation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12883-12889.	1.2	13
199	The Evolution of New Catalytic Mechanisms for Xenobiotic Hydrolysis in Bacterial Metalloenzymes. <i>Australian Journal of Chemistry</i> , 2016, 69, 1383.	0.5	6
200	Structural Analysis of the Hg(II)-Regulatory Protein Tn501 MerR from <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2016, 6, 33391.	1.6	42

#	ARTICLE	IF	CITATIONS
201	Spatial positioning of CFTR <sup>TM</sup> s pore-lining residues affirms an asymmetrical contribution of transmembrane segments to the anion permeation pathway. <i>Journal of General Physiology</i> , 2016, 147, 407-422.	0.9	13
202	Interaction studies of human prion protein (HuPrP109 <sup>111</sup> : methionine-lysine-histidine) tripeptide model with transition metal cations. <i>Journal of Molecular Graphics and Modelling</i> , 2016, 69, 111-126.	1.3	2
203	Crystal structures of Dronpa complexed with quencher metal ions provide insight into metal biosensor development. <i>FEBS Letters</i> , 2016, 590, 2982-2990.	1.3	12
204	Evaluation of Methods for the Calculation of the $pK_a$ of Cysteine Residues in Proteins. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4662-4673.	2.3	88
205	Metal-Directed Design of Supramolecular Protein Assemblies. <i>Methods in Enzymology</i> , 2016, 580, 223-250.	0.4	33
206	Quercetin 2,4-Dioxygenase Activates Dioxygen in a Side-On $O_2$ -Ni Complex. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3281-3284.	7.2	64
207	Investigation of tissue level distribution of functional groups and associated trace metals in rice seeds ( <i>Oryza sativa</i> L.) using FTIR and LA-ICP-MS. <i>Microchemical Journal</i> , 2016, 127, 152-159.	2.3	24
208	Selective and Sensitive Detection of Heavy Metal Ions in 100% Aqueous Solution and Cells with a Fluorescence Chemosensor Based on Peptide Using Aggregation-Induced Emission. <i>Analytical Chemistry</i> , 2016, 88, 3333-3340.	3.2	147
209	Effects of metal-ion replacement on pyrazinamidase activity: A quantum mechanical study. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 73, 24-29.	1.3	5
210	STIM1 activates CRAC channels through rotation of the pore helix to open a hydrophobic gate. <i>Nature Communications</i> , 2017, 8, 14512.	5.8	87
211	Cysteine Addition Promotes Sulfide Production and 4-Fold Hg(II)-S Coordination in Actively Metabolizing <i>Escherichia coli</i> . <i>Environmental Science &amp; Technology</i> , 2017, 51, 4642-4651.	4.6	30
212	A Database of Transition-Metal-Coordinated Peptide Cross-Sections: Selective Interaction with Specific Amino Acid Residues. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1293-1303.	1.2	8
213	Development of Copper Phosphate Nanoflowers on Soy Protein toward a Superhydrophobic and Self-Cleaning Film. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 869-875.	3.2	65
214	Non-Native Metal Ion Reveals the Role of Electrostatics in Synaptotagmin I Membrane Interactions. <i>Biochemistry</i> , 2017, 56, 3283-3295.	1.2	20
215	Zinc-binding structure of a catalytic amyloid from solid-state NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6191-6196.	3.3	102
216	Crystal structure of enolase from <i>Drosophila melanogaster</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2017, 73, 228-234.	0.4	9
217	Preparation of Efficient, Stable, and Reusable Laccase-Cu <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> Hybrid Microspheres Based on Copper Foil for Decoloration of Congo Red. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4468-4477.	3.2	85
218	High-affinity metal binding by the <i>Escherichia coli</i> [NiFe]-hydrogenase accessory protein HypB is selectively modulated by SlyD. <i>Metallomics</i> , 2017, 9, 482-493.	1.0	13

#	ARTICLE	IF	CITATIONS
219	Pore opening mechanism of CRAC channels. <i>Cell Calcium</i> , 2017, 63, 14-19.	1.1	33
220	Divalent metal binding by histidine-rich glycoprotein differentially regulates higher order oligomerisation and proteolytic processing. <i>FEBS Letters</i> , 2017, 591, 164-176.	1.3	8
221	Concomitant Formation of Compositionally Distinct Coordination Polymers Based on a Triacid Linker: Solvent-Mediated Metamorphosis. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1163-1170.	1.0	2
222	Structural diversity of coordination compounds derived from double-chelating and planar diazinedicarboxylate ligands. <i>Coordination Chemistry Reviews</i> , 2017, 352, 83-107.	9.5	16
223	Organic-inorganic hybrid nanoflowers: A novel host platform for immobilizing biomolecules. <i>Coordination Chemistry Reviews</i> , 2017, 352, 249-263.	9.5	194
224	New Ni(II) complexes involving symmetrical bidentate N,O-donor Schiff base ligands: synthesis at ambient temperature, crystal structures, electrochemical study, antioxidant and cytotoxic activities. <i>Journal of Coordination Chemistry</i> , 2017, 70, 3132-3146.	0.8	15
225	Metal-binding selectivity and coordination dynamics for cyanobacterial microcystins with Zn, Cu, Fe, Mg, and Ca. <i>Environmental Chemistry Letters</i> , 2017, 15, 695-701.	8.3	11
226	Melamine modified graphene hydrogels for the removal of uranium( $U^{VI}$ ) from aqueous solution. <i>New Journal of Chemistry</i> , 2017, 41, 10899-10907.	1.4	36
227	Transition metal binding selectivity in proteins and its correlation with the phylogenomic classification of the cation diffusion facilitator protein family. <i>Scientific Reports</i> , 2017, 7, 16381.	1.6	87
228	Rubredoxins derivatives: Simple sulphur-rich coordination metal sites and its relevance for biology and chemistry. <i>Coordination Chemistry Reviews</i> , 2017, 352, 379-397.	9.5	21
229	Determination of trace metal concentration in compost, DAP, and TSP fertilizers by neutron activation analysis (NAA) and insights from density functional theory calculations. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 618.	1.3	10
230	Investigating the geometrical preferences of a flexible benzimidazolone-based linker in the synthesis of coordination polymers. <i>Royal Society Open Science</i> , 2017, 4, 171064.	1.1	2
231	Repurposing proteins for new bioinorganic functions. <i>Essays in Biochemistry</i> , 2017, 61, 245-258.	2.1	12
232	Fluorescent Sensors for Biological Metal Ions. , 2017, , 295-317.		4
233	Coordination and structure of Ca(II)-acetate complexes in aqueous solution studied by a combination of Raman and XAFS spectroscopies. <i>Journal of Molecular Structure</i> , 2018, 1161, 512-518.	1.8	7
234	Molecular Machines of the Cell. , 2018, , 183-235.		0
235	Competition between abiogenic $Al^{3+}$ and native $Mg^{2+}$ , $Fe^{2+}$ and $Zn^{2+}$ ions in protein binding sites: implications for aluminum toxicity. <i>Journal of Molecular Modeling</i> , 2018, 24, 55.	0.8	20
236	<i>Iris lactea</i> var. <i>chinensis</i> (Fisch.) cysteine-rich gene <i>lICDT1</i> enhances cadmium tolerance in yeast cells and <i>Arabidopsis thaliana</i> . <i>Ecotoxicology and Environmental Safety</i> , 2018, 157, 67-72.	2.9	11

#	ARTICLE	IF	CITATIONS
237	Multi-dimensional architecture materials of amino acids and metal ions. <i>New Journal of Chemistry</i> , 2018, 42, 17447-17452.	1.4	1
238	Chelation, formulation, encapsulation, retention, and in vivo biodistribution of hydrophobic nanoparticles labelled with <sup>57</sup> Co-porphyrin: Oleylamine ensures stable chelation of cobalt in nanoparticles that accumulate in tumors. <i>Journal of Controlled Release</i> , 2018, 291, 11-25.	4.8	6
239	Supramolecular Coordination-Directed Reversible Regulation of Protein Activities at Epigenetic DNA Marks. <i>Journal of the American Chemical Society</i> , 2018, 140, 15842-15849.	6.6	13
240	Oxidation State Distributions Provide Insight into Parameters Directing the Assembly of Metal-Organic Nanocapsules. <i>Journal of the American Chemical Society</i> , 2018, 140, 13022-13027.	6.6	10
241	Coordination Behavior of Ni <sup>2+</sup> , Cu <sup>2+</sup> , and Zn <sup>2+</sup> in Tetrahedral 1-Methylimidazole Complexes: A DFT/CSD Study. <i>Bioinorganic Chemistry and Applications</i> , 2018, 2018, 1-8.	1.8	16
242	Metal-chelating non-canonical amino acids in metalloprotein engineering and design. <i>Current Opinion in Structural Biology</i> , 2018, 51, 170-176.	2.6	14
243	Effects of mono-dentate and bi-dentate ligands on adsorption characteristics of Cu-ion-imprinted hybrids. <i>Research on Chemical Intermediates</i> , 2019, 45, 6043-6059.	1.3	1
244	A Fragment Quantum Mechanical Method for Metalloproteins. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1430-1439.	2.3	17
245	Transition metal-substituted Keggin polyoxotungstates enabling covalent attachment to proteinase K upon co-crystallization. <i>Chemical Communications</i> , 2019, 55, 11519-11522.	2.2	12
246	Coordination properties of Cu(II) ions towards the peptides based on the His-Xaa-His motif from <i>Fusobacterium nucleatum</i> P1 protein. <i>Journal of Inorganic Biochemistry</i> , 2019, 201, 110819.	1.5	7
247	Selective coordination of three transition metal ions within a coiled-coil peptide scaffold. <i>Chemical Science</i> , 2019, 10, 7456-7465.	3.7	23
248	Engineering enzyme-coupled hybrid nanoflowers: The quest for optimum performance to meet biocatalytic challenges and opportunities. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 677-690.	3.6	53
249	An ultra-stable gold-coordinated protein cage displaying reversible assembly. <i>Nature</i> , 2019, 569, 438-442.	18.7	124
250	Control by Metals of Staphylopin Dehydrogenase Activity during Metallophore Biosynthesis. <i>Journal of the American Chemical Society</i> , 2019, 141, 5555-5562.	6.6	17
251	Catalytic properties of the metal ion variants of mandelate racemase reveal alterations in the apparent electrophilicity of the metal cofactor. <i>Metallomics</i> , 2019, 11, 707-723.	1.0	5
252	Maleic acid modified cellulose for scavenging lead from water. <i>International Journal of Biological Macromolecules</i> , 2019, 129, 293-304.	3.6	28
253	Assembly of histidine-rich protein materials controlled through divalent cations. <i>Acta Biomaterialia</i> , 2019, 83, 257-264.	4.1	49
254	Cadmium opens GluK2 kainate receptors with cysteine substitutions at the M3 helix bundle crossing. <i>Journal of General Physiology</i> , 2019, 151, 435-451.	0.9	7

#	ARTICLE	IF	CITATIONS
255	Structural dynamics behind variants in pyrazinamidase and pyrazinamide resistance. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 3003-3017.	2.0	7
256	A peptide-based fluorescent sensor for selective imaging of glutathione in living cells and zebrafish. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 481-488.	1.9	4
257	Single molecule observation of hardâ€“soft-acidâ€“base (HSAB) interaction in engineered <i>Mycobacterium smegmatis</i> porin A (MspA) nanopores. <i>Chemical Science</i> , 2020, 11, 879-887.	3.7	47
258	AMBER Force Field Parameters for Cobalt-Containing Biological Systems: A Systematic Derivation Study. <i>Journal of Physical Chemistry B</i> , 2020, 124, 777-787.	1.2	5
259	Ferrocene-functionalized nanocomposites as signal amplification probes for electrochemical immunoassay of <i>Salmonella typhimurium</i> . <i>Mikrochimica Acta</i> , 2020, 187, 600.	2.5	17
260	Zinc Oxide Nanocompositesâ€™ Extracellular Synthesis, Physicochemical Characterization and Antibacterial Potential. <i>Materials</i> , 2020, 13, 4347.	1.3	25
262	The Effects of the Metal Ion Substitution into the Active Site of Metalloenzymes: A Theoretical Insight on Some Selected Cases. <i>Catalysts</i> , 2020, 10, 1038.	1.6	34
263	New insights into coordination chemistry of Monensin A towards divalent metal ions. <i>Inorganica Chimica Acta</i> , 2020, 505, 119481.	1.2	3
264	Multivalent magnetic nanoaggregates with unified antibacterial activity and selective uptake of heavy metals and organic pollutants. <i>Journal of Molecular Liquids</i> , 2020, 317, 114002.	2.3	5
265	Bridging experiments and theory: isolating the effects of metalâ€“ligand interactions on viscoelasticity of reversible polymer networks. <i>Soft Matter</i> , 2020, 16, 8591-8601.	1.2	24
266	Evaluating the Performance of a Non-Bonded Cu <sup>2+</sup> Model Including Jahnâ€“Teller Effect into the Binding of Tyrosinase Inhibitors. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4783.	1.8	14
268	Elucidating the role of metal ions in carbonic anhydrase catalysis. <i>Nature Communications</i> , 2020, 11, 4557.	5.8	60
270	Accelerated Formation Kinetics of a Multicomponent Metalâ€“Organic Framework Derived from Preferential Site Occupancy. <i>Inorganic Chemistry</i> , 2020, 59, 9350-9355.	1.9	7
271	Substrate recognition and ATPase activity of the <i>E. coli</i> cysteine/cystine ABC transporter YecSC-FliY. <i>Journal of Biological Chemistry</i> , 2020, 295, 5245-5256.	1.6	12
272	Investigation of manganese metal coordination in proteins: a comprehensive PDB analysis and quantum mechanical study. <i>Structural Chemistry</i> , 2020, 31, 1057-1064.	1.0	6
273	Understanding How Ligand Functionalization Influences CO <sub>2</sub> and N <sub>2</sub> Adsorption in a Sodalite Metalâ€“Organic Framework. <i>Chemistry of Materials</i> , 2020, 32, 1526-1536.	3.2	19
274	YMR152W from <i>Saccharomyces cerevisiae</i> encoding a novel aldehyde reductase for detoxification of aldehydes derived from lignocellulosic biomass. <i>Journal of Bioscience and Bioengineering</i> , 2021, 131, 39-46.	1.1	11
275	Allosteric regulation of the nickel-responsive NikR transcription factor from <i>Helicobacter pylori</i> . <i>Journal of Biological Chemistry</i> , 2021, 296, 100069.	1.6	7

#	ARTICLE	IF	CITATIONS
276	Coordination pattern and reactivity of two model peptides from porin protein P1. <i>Journal of Inorganic Biochemistry</i> , 2021, 215, 111332.	1.5	5
277	Interactions of zinc aqua complexes with ovalbumin at the forefront of the Zn <sup>2+</sup> /ZnO-OVO hybrid complex formation mechanism. <i>Applied Surface Science</i> , 2021, 542, 148641.	3.1	16
278	Interrogating permeation and gating of Orai channels using chemical modification of cysteine residues. <i>Methods in Enzymology</i> , 2021, 652, 213-239.	0.4	1
279	Transition-metal coordinate bonds for bioinspired macromolecules with tunable mechanical properties. <i>Nature Reviews Materials</i> , 2021, 6, 421-436.	23.3	148
280	The symmetric designer protein Pizza as a scaffold for metal coordination. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 945-951.	1.5	3
281	Cobalt Regulates Activation of Camk2 $\pm$ in Neurons by Influencing Fructose 1,6-Bisphosphatase 2 Quaternary Structure and Subcellular Localization. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4800.	1.8	1
282	Identification of metal binding motifs in protein frameworks to develop novel remediation strategies for Hg <sup>2+</sup> and Cr(VI). <i>BioMetals</i> , 2021, 34, 621-638.	1.8	4
283	Rational design of metal-binding sites in domain-swapped myoglobin dimers. <i>Journal of Inorganic Biochemistry</i> , 2021, 217, 111374.	1.5	4
284	Generating biomembrane-like local curvature in polymersomes via dynamic polymer insertion. <i>Nature Communications</i> , 2021, 12, 2235.	5.8	20
285	Mesoporous Biopolymer Architecture Enhanced the Adsorption and Selectivity of Aqueous Heavy-Metal Ions. <i>ACS Omega</i> , 2021, 6, 15316-15331.	1.6	19
286	Copper: An Intracellular Achilles' Heel Allowing the Targeting of Epigenetics, Kinase Pathways, and Cell Metabolism in Cancer Therapeutics. <i>ChemMedChem</i> , 2021, 16, 2315-2329.	1.6	43
287	Design for a longer photoinduced charge separation and improved visible-light-driven H <sub>2</sub> generation through structure reversal and oxygen vacancies via Ni substitution into ZnFe <sub>2</sub> O <sub>4</sub> spinel. <i>Ceramics International</i> , 2021, 47, 20317-20334.	2.3	7
288	Electrochemically Stable and Catalytically Active Coatings Based on Self-Assembly of Protein-Inorganic Nanoflowers on Plasma-Electrolyzed Platform. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 39854-39867.	4.0	5
289	<i>De novo</i> design of metal-binding cleft in a Trp stapled thermostable $\beta$ -hairpin peptide. <i>Peptide Science</i> , 2021, 113, e24240.	1.0	2
290	Formation of the Metal-Binding Core of the ZRT/IRT-like Protein (ZIP) Family Zinc Transporter. <i>Biochemistry</i> , 2021, 60, 2727-2738.	1.2	8
291	Spectroscopic and computational investigations of organometallic complexation of group 12 transition metals by methanobactins from <i>Methylocystis</i> sp. SB2. <i>Journal of Inorganic Biochemistry</i> , 2021, 223, 111496.	1.5	2
292	Redox chemistry of lens crystallins: A system of cysteines. <i>Experimental Eye Research</i> , 2021, 211, 108707.	1.2	11
293	Nano-immobilization of PETase enzyme for enhanced polyethylene terephthalate biodegradation. <i>Biochemical Engineering Journal</i> , 2021, 176, 108205.	1.8	33

#	ARTICLE	IF	CITATIONS
294	Histidine phosphorylation in metalloprotein binding sites. <i>Journal of Inorganic Biochemistry</i> , 2021, 225, 111606.	1.5	3
296	Theoretical Studies on Hydroxamic Acids. , 2013, , 19-53.		9
297	Chapter 9. Metal-based Antimicrobials. <i>Biomaterials Science Series</i> , 2019, , 252-276.	0.1	2
298	Bond-length distributions for ions bonded to oxygen: results for the transition metals and quantification of the factors underlying bond-length variation in inorganic solids. <i>IUCrJ</i> , 2020, 7, 581-629.	1.0	59
299	A Computational and Structural Database Study of the Metal-Carbene Bond in Groups IA, IIA, and IIIA Imidazol-2-Ylidene Complexes. <i>Journal of Chemistry</i> , 2019, 2019, 1-9.	0.9	1
300	Practical Aspects of Fluorescence Analysis of Free Zinc Ion in Biological Systems. , 2005, , 351-376.		2
301	New Insight into the Transcarbamylase Family: The Structure of Putrescine Transcarbamylase, a Key Catalyst for Fermentative Utilization of Agmatine. <i>PLoS ONE</i> , 2012, 7, e31528.	1.1	5
302	<i>Streptomyces coelicolor</i> SCO4226 Is a Nickel Binding Protein. <i>PLoS ONE</i> , 2014, 9, e109660.	1.1	9
303	Ab Initio Coordination Chemistry for Nickel Chelation Motifs. <i>PLoS ONE</i> , 2015, 10, e0126787.	1.1	19
304	Biophysical Studies of the Induced Dimerization of Human VEGF Receptor 1 Binding Domain by Divalent Metals Competing with VEGF-A. <i>PLoS ONE</i> , 2016, 11, e0167755.	1.1	10
305	Kinetic characterization of <i>Vibrio cholerae</i> ApbE: Substrate specificity and regulatory mechanisms. <i>PLoS ONE</i> , 2017, 12, e0186805.	1.1	14
306	Structural and Functional Diversity of Estrogen Receptor Ligands. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 1372-1384.	1.0	59
307	Oxidation and Antioxidants in Fish and Meat from Farm to Fork. , 0, , .		15
308	Arginine and Lysine interactions with p residues in metalloproteins. <i>Bioinformatics</i> , 2012, 8, 820-826.	0.2	3
309	A sulfur-aromatic gate latch is essential for opening of the Orai1 channel pore. <i>ELife</i> , 2020, 9, .	2.8	13
310	Cryo-EM structure of the calcium release-activated calcium channel Orai in an open conformation. <i>ELife</i> , 2020, 9, .	2.8	36
311	The Effects of Essential and Non-Essential Metal Toxicity in the <i>Drosophila melanogaster</i> Insect Model: A Review. <i>Toxics</i> , 2021, 9, 269.	1.6	42
312	Fluorescence-based biosensing of zinc using carbonic anhydrase. , 2001, , 19-36.		0

#	ARTICLE	IF	CITATIONS
315	External Cd <sup>2+</sup> and protons activate the hyperpolarization-gated K <sup>+</sup> channel KAT1 at the voltage sensor. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	1
316	Protein Nanostructures with Purpose-Designed Properties in Biotechnology and Medicine. , 2020, , 71-89.		1
320	Nanoflowers: A New Approach of Enzyme Immobilization. <i>Chemical Record</i> , 2022, 22, e202100293.	2.9	19
321	A facile approach for hierarchical architectures of an enzyme-metal-organic framework biocatalyst with high activity and stability. <i>Nanoscale</i> , 2022, 14, 3929-3934.	2.8	7
322	Switchable Zinc(II)-Responsive Globular $\beta$ -Sheet Peptide. <i>ACS Synthetic Biology</i> , 2022, 11, 254-264.	1.9	7
323	Bioinorganic Chemistry of Zinc in Relation to the Immune System. <i>ChemBioChem</i> , 2022, 23, .	1.3	7
326	Reorganization free energy of copper proteins in solution, in vacuum, and on metal surfaces. <i>Journal of Chemical Physics</i> , 2022, 156, 175101.	1.2	7
327	Nanomolar affinity of EF-hands in neuronal calcium sensor 1 for bivalent cations Pb <sup>2+</sup> , Mn <sup>2+</sup> , and Hg <sup>2+</sup> . <i>Metallomics</i> , 2022, 14, .	1.0	6
328	Spectroscopic Techniques in Research of Biocolloids. , 2022, , 805-832.		0
329	Selective detection of Cu <sup>2+</sup> ions using a mercaptobenzothiazole disulphide modified carbon paste electrode and bismuth as adjuvant: a theoretical and electrochemical study. <i>New Journal of Chemistry</i> , 2022, 46, 15052-15063.	1.4	1
330	Learning to Identify Physiological and Adventitious Metal-Binding Sites in the Three-Dimensional Structures of Proteins by Following the Hints of a Deep Neural Network. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 2951-2960.	2.5	6
332	Structure of Zinc and Nickel Histidine Complexes in Solution Revealed by Molecular Dynamics and Raman Optical Activity. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	3
333	Pulse Dipolar Electron Paramagnetic Resonance Spectroscopy Reveals Buffer-Modulated Cooperativity of Metal-Templated Protein Dimerization. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 7847-7852.	2.1	7
335	Hydrogel Beads of Amidoximated Starch and Chitosan as Efficient Sorbents for Inorganic and Organic Compounds. <i>Gels</i> , 2022, 8, 549.	2.1	6
336	Metal Ions and Chemical Modification Reagents Inhibit the Enzymatic Activity of Lecithin-Dependent Hemolysin from <i>Vibrio parahaemolyticus</i> . <i>Toxins</i> , 2022, 14, 609.	1.5	1
337	Biochemical studies highlight determinants for metal selectivity in the <i>Escherichia coli</i> periplasmic solute binding protein NikA. <i>Metallomics</i> , 2022, 14, .	1.0	1
339	Interfacial and rheological properties of long-lived foams stabilized by rice proteins complexed to transition metal ions in the presence of alkyl polyglycoside. <i>Journal of Colloid and Interface Science</i> , 2023, 630, 645-657.	5.0	16
340	Competition between Ag <sup>+</sup> and Ni <sup>2+</sup> in nickel enzymes: Implications for the Ag <sup>+</sup> antibacterial activity. <i>Computational Biology and Chemistry</i> , 2022, 101, 107785.	1.1	5

#	ARTICLE	IF	CITATIONS
341	Zinc controls operator affinity of human transcription factor YY1 by mediating dimerization via its N-terminal region. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2023, 1866, 194905.	0.9	1
342	The I1NF-YC6 transcription factor of <i>Iris lactea</i> var. <i>chinensis</i> (Fisch.) activates the IICDT1 gene and enhances tolerance to cadmium stress in <i>Arabidopsis thaliana</i> . <i>Industrial Crops and Products</i> , 2023, 197, 116558.	2.5	2
343	Zinc activation of OTOP proton channels identifies structural elements of the gating apparatus. <i>ELife</i> , 0, 12, .	2.8	3
344	Ligand-Capped Cobalt(II) Multiplies the Value of the Double-Histidine Motif for PCS NMR Studies. <i>Journal of the American Chemical Society</i> , 2023, 145, 4564-4569.	6.6	5
345	In-Depth Characterization of Acidic Variants Induced by Metal-Catalyzed Oxidation in a Recombinant Monoclonal Antibody. <i>Analytical Chemistry</i> , 2023, 95, 5867-5876.	3.2	2
346	Design of a minimal di-nickel hydrogenase peptide. <i>Science Advances</i> , 2023, 9, .	4.7	5
347	High-resolution structures with bound Mn <sup>2+</sup> and Cd <sup>2+</sup> map the metal import pathway in an Nramp transporter. <i>ELife</i> , 0, 12, .	2.8	9
355	Novel biocatalysts based on enzymes in complexes with nano- and micromaterials. <i>Biophysical Reviews</i> , 2023, 15, 1127-1158.	1.5	1