

Wojciech Bal

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187
papers

6,839
citations

47
h-index

75
g-index

202
ext. papers

7,594
ext. citations

5.1
avg, IF

5.88
L-index

#	Paper	IF	Citations
187	Specific structure-stability relations in metallopeptides. <i>Coordination Chemistry Reviews</i> , 1999 , 184, 319-346	2.52	371
186	A formula for correlating pKa values determined in D2O and H2O. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 161-6	4.2	368
185	Binding of transition metal ions to albumin: sites, affinities and rates. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 5444-55	4	262
184	Multi-metal binding site of serum albumin. <i>Journal of Inorganic Biochemistry</i> , 1998 , 70, 33-9	4.2	234
183	Damage of zinc fingers in DNA repair proteins, a novel molecular mechanism in carcinogenesis. <i>Toxicology Letters</i> , 2006 , 162, 29-42	4.4	184
182	Coordination of heavy metals by dithiothreitol, a commonly used thiol group protectant. <i>Journal of Inorganic Biochemistry</i> , 2001 , 84, 77-88	4.2	171
181	Induction of oxidative DNA damage by carcinogenic metals. <i>Toxicology Letters</i> , 2002 , 127, 55-62	4.4	159
180	Co(II) and Cd(II) substitute for Zn(II) in the zinc finger derived from the DNA repair protein XPA, demonstrating a variety of potential mechanisms of toxicity. <i>Chemical Research in Toxicology</i> , 2004 , 17, 1452-8	4	134
179	Cu(II) affinity for the Alzheimer's peptide: tyrosine fluorescence studies revisited. <i>Analytical Chemistry</i> , 2013 , 85, 1501-8	7.8	120
178	Human serum albumin coordinates Cu(II) at its N-terminal binding site with 1 pM affinity. <i>Journal of Biological Inorganic Chemistry</i> , 2007 , 12, 913-8	3.7	120
177	Ni(II) specifically cleaves the C-terminal tail of the major variant of histone H2A and forms an oxidative damage-mediating complex with the cleaved-off octapeptide. <i>Chemical Research in Toxicology</i> , 2000 , 13, 616-24	4	106
176	Affinity of copper and zinc ions to proteins and peptides related to neurodegenerative conditions (A β , APP, Synuclein, PrP). <i>Coordination Chemistry Reviews</i> , 2012 , 256, 2297-2307	23.2	105
175	Cu(II) complexation by "non-coordinating" N-2-hydroxyethylpiperazine-N'-2-ethanesulfonic acid (HEPES buffer). <i>Journal of Inorganic Biochemistry</i> , 2005 , 99, 1653-60	4.2	98
174	Overexpression of phytochelatin synthase in tobacco: distinctive effects of AtPCS1 and CePCS genes on plant response to cadmium. <i>Journal of Experimental Botany</i> , 2008 , 59, 2205-19	7	97
173	Coordination properties of tris(2-carboxyethyl)phosphine, a newly introduced thiol reductant, and its oxide. <i>Inorganic Chemistry</i> , 2003 , 42, 1994-2003	5.1	97
172	Molecular models in nickel carcinogenesis. <i>Journal of Inorganic Biochemistry</i> , 2000 , 79, 213-8	4.2	87
171	Interactions of Nickel(II) with histones: interactions of Nickel(II) with CH ₃ CO-Thr-Glu-Ser-His-His-Lys-NH ₂ , a peptide modeling the potential metal binding site in the "C-Tail" region of histone H2A. <i>Chemical Research in Toxicology</i> , 1998 , 11, 1014-23	4	87

170	Binding of nickel(II) and copper(II) to the N-terminal sequence of human protamine HP2. <i>Chemical Research in Toxicology</i> , 1997 , 10, 906-14	4	83
169	Effects of simultaneous expression of heterologous genes involved in phytochelatin biosynthesis on thiol content and cadmium accumulation in tobacco plants. <i>Journal of Experimental Botany</i> , 2006 , 57, 2173-82	7	82
168	Thermodynamic study of Cu ²⁺ binding to the DAHK and GHK peptides by isothermal titration calorimetry (ITC) with the weaker competitor glycine. <i>Journal of Biological Inorganic Chemistry</i> , 2012 , 17, 37-47	3.7	81
167	Short peptides are not reliable models of thermodynamic and kinetic properties of the N-terminal metal binding site in serum albumin. <i>FEBS Journal</i> , 2002 , 269, 1323-31		81
166	A Functional Role for A ₁₀ in Metal Homeostasis? N-Truncation and High-Affinity Copper Binding. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10460-4	16.4	75
165	Effects of Ni(II) and Cu(II) on DNA interaction with the N-terminal sequence of human protamine P2: enhancement of binding and mediation of oxidative DNA strand scission and base damage. <i>Carcinogenesis</i> , 1999 , 20, 893-8	4.6	75
164	Monomethylarsonous acid destroys a tetrathiolate zinc finger much more efficiently than inorganic arsenite: mechanistic considerations and consequences for DNA repair inhibition. <i>Chemical Research in Toxicology</i> , 2008 , 21, 600-6	4	72
163	Mechanism of nickel assault on the zinc finger of DNA repair protein XPA. <i>Chemical Research in Toxicology</i> , 2003 , 16, 242-8	4	69
162	Spectroscopic and thermodynamic determination of three distinct binding sites for Co(II) ions in human serum albumin. <i>Journal of Inorganic Biochemistry</i> , 2009 , 103, 1005-13	4.2	68
161	N-Terminal Cu-Binding Motifs (Xxx-Zzz-His, Xxx-His) and Their Derivatives: Chemistry, Biology and Medicinal Applications. <i>Chemistry - A European Journal</i> , 2018 , 24, 8029-8041	4.8	67
160	Interaction of selenium compounds with zinc finger proteins involved in DNA repair. <i>FEBS Journal</i> , 2004 , 271, 3190-9		67
159	May GSH and L-His contribute to intracellular binding of zinc? Thermodynamic and solution structural study of a ternary complex. <i>Chemical Communications</i> , 2003 , 704-5	5.8	67
158	Axial Hydrophobic Fence in Highly-Stable Ni(II) Complex of Des-Angiotensinogen N-Terminal Peptide. <i>Journal of the American Chemical Society</i> , 1996 , 118, 4727-4728	16.4	65
157	Dioxygen-induced decarboxylation and hydroxylation of [NiII(glycyl-glycyl-L-histidine)] occurs via NiIII: X-ray crystal structure of [NiII(glycyl-glycyl-β-hydroxy-D,L-histamine)]·BH ₂ O. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 1889-1890		65
156	A study of the comparative donor properties to CuII of the terminal amino and imidazole nitrogens in peptides. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990 , 3565		64
155	Lead interaction with human protamine (HP2) as a mechanism of male reproductive toxicity. <i>Chemical Research in Toxicology</i> , 2000 , 13, 594-600	4	62
154	The novel compound PBT434 prevents iron mediated neurodegeneration and alpha-synuclein toxicity in multiple models of Parkinson's disease. <i>Acta Neuropathologica Communications</i> , 2017 , 5, 53	7.3	57
153	Filaggrin inhibits generation of CD1a neolipid antigens by house dust mite-derived phospholipase. <i>Science Translational Medicine</i> , 2016 , 8, 325ra18	17.5	56

152	Mediation of oxidative DNA damage by nickel(II) and copper(II) complexes with the N-terminal sequence of human protamine HP2. <i>Chemical Research in Toxicology</i> , 1997 , 10, 915-21	4	56
151	The role of chromatin damage in nickel-induced carcinogenesis. A review of recent developments. <i>Journal of Environmental Monitoring</i> , 2003 , 5, 183-7		56
150	Interactions of nickel(II) with histones. Stability and solution structure of complexes with CH ₃ CO-Cys-Ala-Ile-His-NH ₂ , a putative metal binding sequence of histone H3. <i>Chemical Research in Toxicology</i> , 1995 , 8, 683-92	4	56
149	Sequence-specific Ni(II)-dependent peptide bond hydrolysis for protein engineering. Combinatorial library determination of optimal sequences. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3355-66	16.4	55
148	Sequence-specific Ni(II)-dependent peptide bond hydrolysis for protein engineering: reaction conditions and molecular mechanism. <i>Inorganic Chemistry</i> , 2010 , 49, 6636-45	5.1	55
147	The binding constant for amyloid Aβ ₄₀ peptide interaction with human serum albumin. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 364, 714-8	3.4	52
146	Mixed ligand Cu ²⁺ complexes of a model therapeutic with Alzheimer's amyloid-β peptide and monoamine neurotransmitters. <i>Inorganic Chemistry</i> , 2013 , 52, 4303-18	5.1	51
145	A direct determination of the dissociation constant for the Cu(II) complex of amyloid beta 1-40 peptide. <i>Chemical Research in Toxicology</i> , 2010 , 23, 336-40	4	51
144	Correlations between complexation modes and redox activities of Ni(II)-GSH complexes. <i>Chemical Research in Toxicology</i> , 2003 , 16, 855-64	4	51
143	Interactions of nickel(II) with histones: enhancement of 2'-deoxyguanosine oxidation by Ni(II) complexes with CH ₃ CO-Cys-Ala-Ile-His-NH ₂ , a putative metal binding sequence of histone H3. <i>Chemical Research in Toxicology</i> , 1996 , 9, 535-40	4	50
142	Complexes of Cu(II) with Asn-Ser-Phe-Arg-Tyr-NH ₂ ; an example of metal ion-promoted conformational organization which results in exceptionally high complex stability. <i>Journal of Inorganic Biochemistry</i> , 1993 , 52, 79-87	4.2	49
141	Complex-forming properties of L-histidylglycyl-L-histidine (2-amino-N-hydroxypropanamide). <i>Journal of the Chemical Society Dalton Transactions</i> , 1989 , 2247-2251		48
140	Lead effects on protamine-DNA binding. <i>American Journal of Industrial Medicine</i> , 2000 , 38, 324-9	2.7	47
139	Studies of zinc(II) and nickel(II) complexes of GSH, GSSG and their analogs shed more light on their biological relevance. <i>Bioinorganic Chemistry and Applications</i> , 2004 , 2, 293-305	4.2	46
138	How non-bonding amino acid side-chains may enormously increase the stability of a Cu(II) peptide complex. <i>Inorganica Chimica Acta</i> , 1998 , 283, 1-11	2.7	44
137	Redox modifications of the C-terminal cysteine residue cause structural changes in S100A1 and S100B proteins. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2004 , 1742, 191-201	4.9	44
136	The octapeptidic end of the C-terminal tail of histone H2A is cleaved off in cells exposed to carcinogenic nickel(II). <i>Chemical Research in Toxicology</i> , 2003 , 16, 1555-9	4	43
135	Resistance of Cu(Aβ-16) to Copper Capture by Metallothionein-3 Supports a Function for the Aβ-42 Peptide as a Synaptic Cu(II) Scavenger. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8235-8	16.4	42

134	Competition between the terminal amino and imidazole nitrogen donors for coordination to Ni(II) ions in oligopeptides. <i>Inorganica Chimica Acta</i> , 1995 , 231, 7-12	2.7	41
133	The Cu(II)/Abeta/human serum albumin model of control mechanism for copper-related amyloid neurotoxicity. <i>Chemical Research in Toxicology</i> , 2010 , 23, 298-308	4	40
132	Revised coordination model and stability constants of Cu(II) complexes of tris buffer. <i>Inorganic Chemistry</i> , 2013 , 52, 13927-33	5.1	39
131	Structure-function relationships in glutathione and its analogues. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 3885-90	3.9	38
130	Copper(II) binding by kanamycin A and hydrogen peroxide activation by resulting complexes. <i>New Journal of Chemistry</i> , 2002 , 26, 1507-1514	3.6	37
129	The binding of Ni(II) ions to terminally blocked hexapeptides derived from the metal binding -ESHH- motif of histone H2A. <i>Dalton Transactions RSC</i> , 2002 , 4296-4306		35
128	Potentiometric and spectroscopic studies of the interaction of Cu(II) ions with the hexapeptides AcThrAlaSerHisHisLysNH ₂ , AcThrGluAlaHisHisLysNH ₂ , AcThrGluSerAlaHisLysNH ₂ and AcThrGluSerHisAlaLysNH ₂ , models of C-terminal tail of histone H2A. <i>Inorganica Chimica Acta</i> , 2002 , 339, 60-70	2.7	34
127	Factors influencing compact-extended structure equilibrium in oligomers of aβ-40 peptide--an ion mobility mass spectrometry study. <i>Journal of Molecular Biology</i> , 2014 , 426, 2871-85	6.5	33
126	Induction of a secondary structure in the N-terminal pentadecapeptide of human protamine HP2 through Ni(II) coordination. An NMR study. <i>Chemical Research in Toxicology</i> , 2000 , 13, 823-30	4	33
125	Metal assisted peptide bond hydrolysis: Chemistry, biotechnology and toxicological implications. <i>Coordination Chemistry Reviews</i> , 2016 , 327-328, 166-187	23.2	32
124	Sequence-specific Ni(II)-dependent peptide bond hydrolysis in a peptide containing threonine and histidine residues.. <i>Acta Biochimica Polonica</i> , 2006 , 53, 721-727	2	31
123	Zn(II) complexes of glutathione disulfide: structural basis of elevated stabilities. <i>Inorganic Chemistry</i> , 2011 , 50, 72-85	5.1	30
122	Coordination mode and oxidation susceptibility of nickel(II) complexes with 2'-deoxyguanosine 5'-monophosphate and l-histidine. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 1770-7	4.2	30
121	Copper(II) complexes with some tetrapeptides containing the break-point prolyl residue in the third position. <i>Journal of the Chemical Society Dalton Transactions</i> , 1988 , 1357-1360		30
120	Interaction of Nickel(II) with histones: in vitro binding of nickel(II) to the core histone tetramer. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 364, 161-6	4.1	29
119	Potentiometric and spectroscopic studies of the Cu(II) complexes of Ala-Arg8-vasopressin and oxytocin: two vasopressin-like peptides. <i>Journal of Inorganic Biochemistry</i> , 1992 , 45, 193-202	4.2	29
118	DNA and RNA damage by Cu(II)-amikacin complex. <i>FEBS Journal</i> , 2002 , 269, 5547-56		28
117	The Cu(II) complex of Abeta40 peptide in ammonium acetate solutions. Evidence for ternary species formation. <i>Chemical Communications</i> , 2009 , 1374-6	5.8	26

116	Co-ordination of copper(II) by amikacin. Complexation equilibria in solution and oxygen activation by the resulting complexes <i>Journal of the Chemical Society Dalton Transactions</i> , 1998 , 153-160		26
115	Stray Cu(II) may cause oxidative damage when coordinated to the -TESHHK- sequence derived from the C-terminal tail of histone H2A. <i>Chemical Research in Toxicology</i> , 2001 , 14, 1177-83	4	26
114	Selective peptide bond hydrolysis of cysteine peptides in the presence of Ni(II) ions. <i>Journal of Inorganic Biochemistry</i> , 2011 , 105, 10-6	4.2	24
113	Kanamycin revisited: a combined potentiometric and spectroscopic study of copper(II) binding to kanamycin B. <i>Inorganica Chimica Acta</i> , 1998 , 275-276, 541-545	2.7	24
112	The Sub-picomolar Cu Dissociation Constant of Human Serum Albumin. <i>ChemBioChem</i> , 2020 , 21, 331-334	3.8	24
111	Interplay between Copper, Neprilysin, and N-Truncation of β -Amyloid. <i>Inorganic Chemistry</i> , 2018 , 57, 6193-6197	5.1	24
110	Cu Binding Properties of N-Truncated β -Peptides: In Search of Biological Function. <i>Inorganic Chemistry</i> , 2019 , 58, 13561-13577	5.1	23
109	Interactions of transition metal ions with His-containing peptide models of histone H2A. <i>Journal of Molecular Liquids</i> , 2005 , 118, 119-129	6	23
108	The final frontier of pH and the undiscovered country beyond. <i>PLoS ONE</i> , 2012 , 7, e45832	3.7	23
107	The N-terminal 14-mer model peptide of human Ctr1 can collect Cu(ii) from albumin. Implications for copper uptake by Ctr1. <i>Metallomics</i> , 2018 , 10, 1723-1727	4.5	23
106	Application of Ni(II)-assisted peptide bond hydrolysis to non-enzymatic affinity tag removal. <i>PLoS ONE</i> , 2012 , 7, e36350	3.7	22
105	Copper(II)-lincomycin: complexation pattern and oxidative activity. <i>Journal of Inorganic Biochemistry</i> , 2001 , 84, 189-200	4.2	21
104	Tuning the Redox Properties of Copper(II) Complexes with Amyloid- β Peptides. <i>Journal of the Electrochemical Society</i> , 2016 , 163, G196-G199	3.9	20
103	Selective control of Cu(II) complex stability in histidine peptides by β -alanine. <i>Journal of Inorganic Biochemistry</i> , 2013 , 119, 85-9	4.2	20
102	Molecular mechanism of hydrogen peroxide conversion and activation by Cu(II)-amikacin complexes. <i>Chemical Research in Toxicology</i> , 2001 , 14, 1353-62	4	20
101	Characterization of pNiXa, a serpin of <i>Xenopus laevis</i> oocytes and embryos, and its histidine-rich, Ni(II)-binding domain. <i>Molecular Reproduction and Development</i> , 1996 , 44, 507-24	2.6	20
100	Copper Exchange and Redox Activity of a Prototypical 8-Hydroxyquinoline: Implications for Therapeutic Chelation. <i>Inorganic Chemistry</i> , 2016 , 55, 7317-9	5.1	19
99	Copper(II) binding to geneticin, a gentamycin analog. <i>Journal of Inorganic Biochemistry</i> , 1998 , 71, 129-134	4.2	19

98	Cu(II) binding by angiotensin II fragments: Asp-Arg-Val-Tyr-Ile-His and Arg-Val-Tyr-Ile-His. Competition between amino group and imidazole nitrogens in anchoring of metal ions. <i>Journal of Inorganic Biochemistry</i> , 1995 , 57, 235-47	4.2	19
97	Revised stability constant, spectroscopic properties and binding mode of Zn(II) to FluoZin-3, the most common zinc probe in life sciences. <i>Journal of Inorganic Biochemistry</i> , 2016 , 161, 107-14	4.2	19
96	The Cu(II) affinity of the N-terminus of human copper transporter CTR1: Comparison of human and mouse sequences. <i>Journal of Inorganic Biochemistry</i> , 2018 , 182, 230-237	4.2	18
95	Ternary complex formation and competition quench fluorescence of ZnAF family zinc sensors. <i>Metallomics</i> , 2013 , 5, 1483-90	4.5	18
94	Cysteine and glutathione trigger the Cu-Zn swap between Cu(ii)-amyloid- β peptide and Zn-metallothionein-3. <i>Chemical Communications</i> , 2017 , 53, 11634-11637	5.8	18
93	Introduction of hydroxymethylserine residues in a peptide sequence results in the strongest peptidic, albumin-like, copper(II) chelator known to date. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999 , 109-110		18
92	Cu(II) Binding to the Peptide Ala-His-His, a Chimera of the Canonical Cu(II)-Binding Motifs Xxx-His and Xxx-Zzz-His. <i>Inorganic Chemistry</i> , 2017 , 56, 14870-14879	5.1	17
91	A Functional Role for A β in Metal Homeostasis? N-Truncation and High-Affinity Copper Binding. <i>Angewandte Chemie</i> , 2015 , 127, 10606-10610	3.6	17
90	Quantitative electrospray ionization mass spectrometry of zinc finger oxidation: the reaction of XPA zinc finger with H ₂ O ₂ . <i>Analytical Biochemistry</i> , 2007 , 369, 226-31	3.1	17
89	Key Intermediate Species Reveal the Copper(II)-Exchange Pathway in Biorelevant ATCUN/NTS Complexes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11234-11239	16.4	16
88	Coordination properties of dithiobutylamine (DTBA), a newly introduced protein disulfide reducing agent. <i>Inorganic Chemistry</i> , 2015 , 54, 596-606	5.1	16
87	Salivary histatin-5, a physiologically relevant ligand for Ni(II) ions. <i>Journal of Inorganic Biochemistry</i> , 2011 , 105, 1220-5	4.2	16
86	Reaction of the XPA zinc finger with S-nitrosoglutathione. <i>Chemical Research in Toxicology</i> , 2008 , 21, 386-92	4	16
85	A dramatic change in the interaction of Cu(II) with bio-peptides promoted by SDS--a model for complex formation on a membrane surface. <i>Journal of Inorganic Biochemistry</i> , 1994 , 55, 41-52	4.2	16
84	The N-terminus of hepcidin is a strong and potentially biologically relevant Cu(II) chelator. <i>Inorganica Chimica Acta</i> , 2018 , 472, 76-81	2.7	15
83	cis-Urocanic acid as a potential nickel(II) binding molecule in the human skin. <i>Dalton Transactions</i> , 2014 , 43, 3196-201	4.3	15
82	Effect of D-amino acid substitutions on Ni(II)-assisted peptide bond hydrolysis. <i>Inorganic Chemistry</i> , 2013 , 52, 2422-31	5.1	15
81	The C2H2 zinc finger transcription factors are likely targets for Ni(II) toxicity. <i>Metallomics</i> , 2011 , 3, 1227-35	3.5	15

- 80 Physiological levels of glutathione enhance Zn(II) binding by a Cys4 zinc finger. *Biochemical and Biophysical Research Communications*, **2009**, 389, 265-8 3.4 15
- 79 Nickel(II) complexes of hydroxamic analogues of aminoacids. *Journal of Inorganic Biochemistry*, **1990**, 38, 9-16 4.2 15
- 78 Oligopeptides Generated by Neprilysin Degradation of β -Amyloid Have the Highest Cu(II) Affinity in the Whole A β Family. *Inorganic Chemistry*, **2019**, 58, 932-943 5.1 15
- 77 Numerical Simulations Reveal Randomness of Cu(II) Induced A β Peptide Dimerization under Conditions Present in Glutamatergic Synapses. *PLoS ONE*, **2017**, 12, e0170749 3.7 14
- 76 Contrasting effects of metal ions on S-nitrosoglutathione, related to coordination equilibria: GSNO decomposition assisted by Ni(II) vs stability increase in the presence of Zn(II) and Cd(II). *Chemical Research in Toxicology*, **2004**, 17, 392-403 4 14
- 75 Determination of the stability constants and oxidation susceptibility of nickel(II) complexes with 2'-deoxyguanosine 5'-triphosphate and L-histidine. *Journal of Inorganic Biochemistry*, **2005**, 99, 737-46 4.2 14
- 74 Copper(II) interactions with an experimental antiviral agent, I-deoxynojirimycin, and oxygen activation by resulting complexes. *Journal of Inorganic Biochemistry*, **1996**, 64, 231-46 4.2 14
- 73 Interactions of β -Factor-1, a Yeast Pheromone, and Its Analogue with Copper(II) Ions and Low-Molecular-Weight Ligands Yield Very Stable Complexes. *Inorganic Chemistry*, **2016**, 55, 7829-31 5.1 14
- 72 Cu transfer from amyloid- β to metallothionein-3: the role of the neurotransmitter glutamate and metallothionein-3 Zn(ii)-load states. *Chemical Communications*, **2018**, 54, 12634-12637 5.8 14
- 71 Copper(II) Complexes with ATCUN Peptide Analogues: Studies on Redox Activity in Different Solutions. *Journal of the Electrochemical Society*, **2017**, 164, G77-G81 3.9 13
- 70 Dysregulated Zn homeostasis impairs cardiac type-2 ryanodine receptor and mitsugumin 23 functions, leading to sarcoplasmic reticulum Ca leakage. *Journal of Biological Chemistry*, **2017**, 292, 13361-13373 5.4 13
- 69 Ternary Zn(II) Complexes of FluoZin-3 and the Low Molecular Weight Component of the Exchangeable Cellular Zinc Pool. *Inorganic Chemistry*, **2018**, 57, 9826-9838 5.1 13
- 68 Human annexins A1, A2, and A8 as potential molecular targets for Ni(II) ions. *Chemical Research in Toxicology*, **2014**, 27, 1996-2009 4 13
- 67 Biophysical analysis of the interaction of toxic metal ions and oxidants with the zinc finger domain of XPA. *Methods in Molecular Biology*, **2010**, 649, 399-410 1.4 13
- 66 Oxidative stress level in the testes of mice and rats during nickel intoxication. *Scientific World Journal*, **2012**, 2012, 395741 2.2 12
- 65 Interactions of Zn(II) ions with three His-containing peptide models of histone H2A. *Bioinorganic Chemistry and Applications*, **2004**, 2, 125-40 4.2 12
- 64 Differential zinc and DNA binding by partial peptides of human protamine HP2. *Molecular and Cellular Biochemistry*, **2001**, 222, 97-106 4.2 12
- 63 A diadenosine 5',5''-P1P4 tetraphosphate (Ap4A) hydrolase from Arabidopsis thaliana that is activated preferentially by Mn²⁺ ions.. *Acta Biochimica Polonica*, **2008**, 55, 151-160 2 12

62	Revisiting Mitochondrial pH with an Improved Algorithm for Calibration of the Ratiometric 5(6)-carboxy-SNARF-1 Probe Reveals Anticooperative Reaction with H ⁺ Ions and Warrants Further Studies of Organellar pH. <i>PLoS ONE</i> , 2016 , 11, e0161353	3.7	12
61	Unusual Zn(II) Affinities of Zinc Fingers of Poly(ADP-ribose)Polymerase 1 (PARP-1) Nuclear Protein. <i>Chemical Research in Toxicology</i> , 2015 , 28, 191-201	4	11
60	Sequence-specific Cu(II)-dependent peptide bond hydrolysis: similarities and differences with the Ni(II)-dependent reaction. <i>Inorganic Chemistry</i> , 2014 , 53, 4639-46	5.1	11
59	Cu(II) complex formation by ACES buffer. <i>Journal of Inorganic Biochemistry</i> , 2013 , 129, 58-61	4.2	11
58	Sequence-specific Ni(II)-dependent peptide bond hydrolysis for protein engineering: active sequence optimization. <i>Journal of Inorganic Biochemistry</i> , 2013 , 127, 99-106	4.2	11
57	A zinc-finger like metal binding site in the nucleosome. <i>FEBS Letters</i> , 2007 , 581, 1409-16	3.8	11
56	The unusual behavior of the inhibitor S(+)(1-amino-2-phenylethyl)phosphonic acid towards carboxypeptidase A. <i>Journal of Inorganic Biochemistry</i> , 1990 , 40, 227-35	4.2	11
55	Effect of common buffers and heterocyclic ligands on the binding of Cu(II) at the multimetal binding site in human serum albumin. <i>Bioinorganic Chemistry and Applications</i> , 2010 , 725153	4.2	10
54	A thermodynamic and spectroscopic study of the complexes of the undecapeptide Substance P, of its N-terminal fragment and of model pentapeptides containing two prolyl residues with copper ions. <i>Journal of the Chemical Society Dalton Transactions</i> , 1991 , 1651		10
53	Overexpression of genes involved in phytochelatin biosynthesis in Escherichia coli: effects on growth, cadmium accumulation and thiol level.. <i>Acta Biochimica Polonica</i> , 2005 , 52, 109-116	2	10
52	Formation of highly stable multinuclear Ag ₅ clusters in zinc fingers disrupts their structure and function. <i>Chemical Communications</i> , 2020 , 56, 1329-1332	5.8	10
51	Ni(II) ions cleave and inactivate human alpha-1 antitrypsin hydrolytically, implicating nickel exposure as a contributing factor in pathologies related to antitrypsin deficiency. <i>Metallomics</i> , 2015 , 7, 596-604	4.5	9
50	Unbound position II in MXCXXC metallochaperone model peptides impacts metal binding mode and reactivity: Distinct similarities to whole proteins. <i>Journal of Inorganic Biochemistry</i> , 2016 , 159, 29-36	4.2	9
49	Dual catalytic role of the metal ion in nickel-assisted peptide bond hydrolysis. <i>Journal of Inorganic Biochemistry</i> , 2014 , 136, 107-14	4.2	9
48	Recent Advances in Molecular Toxicology of Cadmium and Nickel. <i>Advances in Molecular Toxicology</i> , 2010 , 4, 85-126	0.4	9
47	Ternary Cu(II) Complex with GHK Peptide and -Urocanic Acid as a Potential Physiologically Functional Copper Chelate. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	9
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