Magdalena Rowinska-Zyrek

List of Publications by Year
in descending order

69 papers	1,200 citations	331538 21 h-index	454834 30 g-index
75 all docs	75 docs citations	75 times ranked	1290 citing authors

#	Article	IF	Citations
1	Zn2+ and Cu2+ Binding to the Extramembrane Loop of Zrt2, a Zinc Transporter of Candida albicans. Biomolecules, 2022, 12, 121.	1.8	9
2	Thermodynamic surprises of Cu(II)â€“amylin analogue complexes in membrane mimicking solutions. Scientific Reports, 2022, 12, 425.	1.6	4
3	INTERLABORATORY VIRTUAL COLLABORATIVE EXPERIENCES IN CHEMISTRY LABS. INTED Proceedings, 2022, , .	0.0	0
4	Specific Zn(II)-binding site in the C-terminus of Aspf2, a zincophore from Aspergillus fumigatus. Metallomics, 2022, 14, .	1.0	5
5	The N-terminal domain of Helicobacter pylori's Hpn protein: The role of multiple histidine residues. Journal of Inorganic Biochemistry, 2021, 214, 111304.	1.5	8
6	Metal specificity of the Ni(<scp>ii</scp>) and Zn(<scp>ii</scp>) binding sites of the N-terminal and G-domain of E. coli HypB. Dalton Transactions, 2021, 50, 12635-12647.	1.6	1
7	Peptidomimetics â€“ An infinite reservoir of metal binding motifs in metabolically stable and biologically active molecules. Journal of Inorganic Biochemistry, 2021, 217, 111386.	1.5	4
8	How Zinc-Binding Systems, Expressed by Human Pathogens, Acquire Zinc from the Colonized Host Environment: A Critical Review on Zincophores. Current Medicinal Chemistry, 2021, 28, 7312-7338.	1.2	9
9	Zn-Enhanced Asp-Rich Antimicrobial Peptides: N-Terminal Coordination by Zn(II) and Cu(II), Which Distinguishes Cu(II) Binding to Different Peptides. International Journal of Molecular Sciences, 2021, 22, 6971.	1.8	10
10	Metal Complexation Mechanisms of Polyphenols Associated to Alzheimerâ€™s Disease. Current Medicinal Chemistry, 2021, 28, 7278-7294.	1.2	7
11	Chemical â€œButterfly Effectâ€•Explaining the Coordination Chemistry and Antimicrobial Properties of Clavanin Complexes. Inorganic Chemistry, 2021, 60, 12730-12734.	1.9	11
12	A Comparative Study on Nickel Binding to Hpn-like Polypeptides from Two Helicobacter pylori Strains. International Journal of Molecular Sciences, 2021, 22, 13210.	1.8	3
13	Zn(II)-alloferon complexes â€“ Similar sequence, different coordination modes, no antibacterial activity. Journal of Inorganic Biochemistry, 2020, 213, 111275.	1.5	0
14	Zinc(II)â€”The Overlooked Ã‰minence Grise of Chloroquineâ€™s Fight against COVID-19?. Pharmaceuticals, 2020, 13, 228.	1.7	21
15	Novel insights into the metal binding ability of ZinT periplasmic protein from Escherichia coli and Salmonella enterica. Dalton Transactions, 2020, 49, 9393-9403.	1.6	10
16	Copper(II) and Amylin Analogues: A Complicated Relationship. Inorganic Chemistry, 2020, 59, 2527-2535.	1.9	20
17	Metal Complexes of Two Specific Regions of ZnuA, a Periplasmic Zinc(II) Transporter from Escherichia coli. Inorganic Chemistry, 2020, 59, 1947-1958.	1.9	9
18	Zinc Binding Sites Conserved in Short Neuropeptides Containing a Diphenylalanine Motif. Inorganic Chemistry, 2020, 59, 925-929.	1.9	6

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19	Copper(II)-Binding Induces a Unique Polyproline Type II Helical Structure within the Ion-Binding Segment in the Intrinsically Disordered F-Domain of Ecdysteroid Receptor from Aedes aegypti. Inorganic Chemistry, 2019, 58, 11782-11792.	1.9	3
20	Biophysical approaches for the study of metal-protein interactions. Journal of Inorganic Biochemistry, 2019, 199, 110783.	1.5	21
21	Uncapping the N-terminus of a ubiquitous His-tag peptide enhances its Cu²⁺ binding affinity. Dalton Transactions, 2019, 48, 13567-13579.	1.6	10
22	Bioinorganic chemistry of calcitermin â€“ the picklock of its antimicrobial activity. Dalton Transactions, 2019, 48, 13740-13752.	1.6	17
23	Ag+ Complexes as Potential Therapeutic Agents in Medicine and Pharmacy. Current Medicinal Chemistry, 2019, 26, 624-647.	1.2	23
24	Copper(II)-Induced Restructuring of ZnuD, a Zinc(II) Transporter from Neisseria meningitidis. Inorganic Chemistry, 2019, 58, 5932-5942.	1.9	6
25	Pneumococcal HxxHxH triad â€“ Copper(II) interactions â€“ How important is the â€˜xâ€™?. Inorganica Chimica Acta, 2019, 488, 255-259.	1.2	4
26	Thermodynamic and spectroscopic study of Cu(<scp>ii</scp>) and Zn(<scp>ii</scp>) complexes with the (148â€“156) peptide fragment of C4YJH2, a putative metal transporter ofCandida albicans. Metallomics, 2019, 11, 1988-1998.	1.0	10
27	The intrinsically disordered C-terminal F domain of the ecdysteroid receptor from Aedes aegypti exhibits metal ion-binding ability. Journal of Steroid Biochemistry and Molecular Biology, 2019, 186, 42-55.	1.2	7
28	Antimicrobial peptideâ€“metal ion interactions â€“ a potential way of activity enhancement. New Journal of Chemistry, 2018, 42, 7560-7568.	1.4	32
29	Investigation on the metal binding sites of a putative Zn(<scp>ii</scp>) transporter in opportunistic yeast species Candida albicans. New Journal of Chemistry, 2018, 42, 8123-8130.	1.4	6
30	Candida albicanszincophore and zinc transporter interactions with Zn(<scp>ii</scp>) and Ni(<scp>ii</scp>). Dalton Transactions, 2018, 47, 2646-2654.	1.6	16
31	Histidine tracts in human transcription factors: insight into metal ion coordination ability. Journal of Biological Inorganic Chemistry, 2018, 23, 81-90.	1.1	24
32	Impact of histidine spacing on modified polyhistidine tag â€“ Metal ion interactions. Inorganica Chimica Acta, 2018, 472, 119-126.	1.2	21
33	Physicochemical, antioxidant, DNA cleaving properties and antimicrobial activity of fisetin-copper chelates. Journal of Inorganic Biochemistry, 2018, 180, 101-118.	1.5	25
34	Metal interactions with the transmembrane region of HupE Ni2+ transporter explain its efficiency. Journal of Inorganic Biochemistry, 2018, 180, 33-38.	1.5	1
35	Pneumococcal histidine triads â€“ involved not only in Zn²⁺, but also Ni²⁺ binding?. Metallomics, 2018, 10, 1631-1637.	1.0	6
36	Poly-Xaa Sequences in Proteins - Biological Role and Interactions with Metal Ions: Chemical and Medical Aspects. Current Medicinal Chemistry, 2018, 25, 22-48.	1.2	4

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37	Zn(II) and Ni(II) complexes with poly-histidyl peptides derived from a snake venom. Inorganica Chimica Acta, 2018, 472, 149-156.	1.2	12
38	Zinc binding sites in Pra1, a zincophore from Candida albicans. Dalton Transactions, 2017, 46, 13695-13703.	1.6	29
39	Zn(II) - pramlintide: Stability, binding sites and unexpected aggregation. Journal of Inorganic Biochemistry, 2017, 174, 150-155.	1.5	20
40	Periplasmic HupE region-Ni 2+ interactions: Thermodynamics, binding mode and competition with Cu 2+ and Zn 2+. Inorganica Chimica Acta, 2017, 460, 141-147.	1.2	1
41	Preface. Journal of Inorganic Biochemistry, 2016, 163, 229.	1.5	0
42	Coordination of Zn2+ and Cu2+ to the membrane disrupting fragment of amylin. Dalton Transactions, 2016, 45, 8099-8106.	1.6	30
43	Zinc Homeostasis at the Bacteria/Host Interfaceâ€"From Coordination Chemistry to Nutritional Immunity. Chemistry - A European Journal, 2016, 22, 15992-16010.	1.7	66
44	HENRYK â€" An endless source of metal coordination surprises. Journal of Inorganic Biochemistry, 2016, 163, 258-265.	1.5	3
45	Secondary structure confirmation and localization of Mg²⁺ ions in the mammalian CPEB3 ribozyme. Rna, 2016, 22, 750-763.	1.6	16
46	Fungal Zinc Homeostasis â€“ A Tug of War Between the Pathogen and Host. Current Medicinal Chemistry, 2016, 23, 3717-3729.	1.2	10
47	Alternative DNA Structures, Switches and Nanomachines. , 2015, , 329-490.		0
48	Chelating ability and biological activity of hesperetin Schiff base. Journal of Inorganic Biochemistry, 2015, 143, 34-47.	1.5	21
49	Neurodegenerative diseases â€“ Understanding their molecular bases and progress in the development of potential treatments. Coordination Chemistry Reviews, 2015, 284, 298-312.	9.5	48
50	Ni²⁺chemistry in pathogens â€“ a possible target for eradication. Dalton Transactions, 2014, 43, 8976-8989.	1.6	28
51	The unusual binding mechanism of Cu(<scp>ii</scp>) ions to the poly-histidyl domain of a peptide found in the venom of an African viper. Dalton Transactions, 2014, 43, 16680-16689.	1.6	25
52	Solution structure and metal ion binding sites of the human CPEB3 ribozymeâ€™s P4 domain. Journal of Biological Inorganic Chemistry, 2014, 19, 903-912.	1.1	5
53	Hexaamminecobalt(III) â€“ Probing Metal Ion Binding Sites in Nucleic Acids by NMR Spectroscopy. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 1313-1320.	0.6	14
54	Unexpected impact of the number of glutamine residues on metal complex stability. Metallomics, 2013, 5, 214.	1.0	33

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55	His-rich sequences â€“ is plagiarism from nature a good idea?. New Journal of Chemistry, 2013, 37, 58-70.	1.4	50
56	The zinc-binding fragment of HypA from Helicobacter pylori: a tempting site also for nickel ions. Dalton Transactions, 2013, 42, 6012.	1.6	19
57	Specific metal ion binding sites in unstructured regions of proteins. Coordination Chemistry Reviews, 2013, 257, 2625-2638.	9.5	63
58	Metal Transport and Homeostasis within the Human Body: Toxicity Associated with Transport Abnormalities. Current Medicinal Chemistry, 2012, 19, 2738-2759.	1.2	26
59	The Coordination of Ni^{II} and Cu^{II} Ions to the Polyhistidyl Motif of Hpn Protein: Is It as Strong as We Think?. Chemistry - A European Journal, 2012, 18, 11088-11099.	1.7	28
60	Specific poly-histidyl and poly-cysteil protein sites involved in Ni2+ homeostasis in Helicobacter pylori. Impact of Bi3+ ions on Ni2+ binding to proteins. Structural and thermodynamic aspects. Coordination Chemistry Reviews, 2012, 256, 133-148.	9.5	50
61	Coordination of Ni2+ and Cu2+ to metal ion binding domains of E. coli SlyD protein. Journal of Inorganic Biochemistry, 2012, 107, 73-81.	1.5	23
62	The â€“Cysâ€“Cysâ€“ motif in Helicobacter pylori's Hpn and HspA proteins is an essential anchoring site for metal ions. Dalton Transactions, 2011, 40, 5604.	1.6	52
63	Polythiol binding to biologically relevant metal ions. Dalton Transactions, 2011, 40, 10434.	1.6	20
64	Metal Binding Ability of Cysteine-Rich Peptide Domain of ZIP13 Zn²⁺ Ions Transporter. Inorganic Chemistry, 2011, 50, 6135-6145.	1.9	33
65	An efficient copper(III) catalyst in the four electron reduction of molecular oxygen by l-ascorbic acid. Journal of Molecular Catalysis A, 2011, 334, 77-82.	4.8	6
66	The C terminus of HspAâ€”a potential target for native Ni(ii) and Bi(iii) anti-ulcer drugs. Dalton Transactions, 2010, 39, 5814.	1.6	37
67	Heteronuclear and Homonuclear Cu²⁺ and Zn²⁺ Complexes with Multihistidine Peptides Based on Zebrafish Prion-like Protein. Inorganic Chemistry, 2009, 48, 7330-7340.	1.9	27
68	Specific interactions of Bi(III) with the Cys-Xaa-Cys unit of a peptide sequence. Dalton Transactions, 2009, , 9131.	1.6	18
69	CHAPTER 4. Nickel Binding Sites â€“ Coordination Modes and Thermodynamics. 2-Oxoglutarate-Dependent Oxygenases, 0, , 43-59.	0.8	0