

# Fabio Arnesano

## List of Publications by Year in descending order

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95  
papers

4,078  
citations

109264

35  
h-index

123376

61  
g-index

105  
all docs

105  
docs citations

105  
times ranked

4876  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic insight into the cellular uptake and processing of cisplatin 30 years after its approval by FDA. <i>Coordination Chemistry Reviews</i> , 2009, 253, 2070-2081.	9.5	251
2	Metallochaperones and Metal-Transporting ATPases: A Comparative Analysis of Sequences and Structures. <i>Genome Research</i> , 2002, 12, 255-271.	2.4	232
3	The Unusually Stable Quaternary Structure of Human Cu,Zn-Superoxide Dismutase 1 Is Controlled by Both Metal Occupancy and Disulfide Status. <i>Journal of Biological Chemistry</i> , 2004, 279, 47998-48003.	1.6	223
4	A redox switch in CopC: An intriguing copper trafficking protein that binds copper(I) and copper(II) at different sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3814-3819.	3.3	173
5	Solution Structure of the Cu(I) and Apo Forms of the Yeast Metallochaperone, Atx1. <i>Biochemistry</i> , 2001, 40, 1528-1539.	1.2	172
6	Characterization of the Binding Interface between the Copper Chaperone Atx1 and the First Cytosolic Domain of Ccc2 ATPase. <i>Journal of Biological Chemistry</i> , 2001, 276, 41365-41376.	1.6	132
7	Folding Studies of Cox17 Reveal an Important Interplay of Cysteine Oxidation and Copper Binding. <i>Structure</i> , 2005, 13, 713-722.	1.6	121
8	Probing the Interaction of Cisplatin with the Human Copper Chaperone Atox1 by Solution and In-Cell NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 18361-18369.	6.6	114
9	Solution Structure of CopC. <i>Structure</i> , 2002, 10, 1337-1347.	1.6	104
10	A Strategy for the NMR Characterization of Type II Copper(II) Proteins: The Case of the Copper Trafficking Protein CopC from <i>Pseudomonas Syringae</i> . <i>Journal of the American Chemical Society</i> , 2003, 125, 7200-7208.	6.6	98
11	Interaction between Platinum Complexes and a Methionine Motif Found in Copper Transport Proteins. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 9062-9064.	7.2	91
12	The Solution Structure of Oxidized Rat Microsomal Cytochrome b5. <i>Biochemistry</i> , 1998, 37, 173-184.	1.2	86
13	NMR structures of paramagnetic metalloproteins. <i>Quarterly Reviews of Biophysics</i> , 2005, 38, 167-219.	2.4	84
14	The Solution Structure of Oxidized Escherichia coli Cytochrome b562. <i>Biochemistry</i> , 1999, 38, 8657-8670.	1.2	82
15	Intranasal delivery of dopamine to the striatum using glycol chitosan/sulfobutylether- $\beta$ -cyclodextrin based nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 94, 180-193.	2.0	81
16	Translocation of Platinum Anticancer Drugs by Human Copper ATPases ATP7A and ATP7B. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1297-1301.	7.2	79
17	Perspectives in Inorganic Structural Genomics: A Trafficking Route for Copper. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 1583-1593.	1.0	77
18	Heavy metals toxicity: effect of cadmium ions on amyloid beta protein 1-42. Possible implications for Alzheimer's disease. <i>BioMetals</i> , 2014, 27, 371-388.	1.8	75

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19	C <sub>60</sub> @Lysozyme: Direct Observation by Nuclear Magnetic Resonance of a 1:1 Fullerene Protein Adduct. ACS Nano, 2014, 8, 1871-1877.	7.3	70
20	An Updated View of Cisplatin Transport. European Journal of Inorganic Chemistry, 2013, 2013, 2701-2711.	1.0	63
21	"Platinum on the road": Interactions of antitumoral cisplatin with proteins. Pure and Applied Chemistry, 2008, 80, 2715-2725.	0.9	59
22	A Docking Approach to the Study of Copper Trafficking Proteins. Structure, 2004, 12, 669-676.	1.6	56
23	The Evolutionarily Conserved Trimeric Structure of CutA1 Proteins Suggests a Role in Signal Transduction. Journal of Biological Chemistry, 2003, 278, 45999-46006.	1.6	52
24	Insights into the Molecular Mechanisms of Protein Platination from a Case Study: The Reaction of Anticancer Platinum(II) Iminoethers with Horse Heart Cytochrome c. Biochemistry, 2007, 46, 12220-12230.	1.2	51
25	Methionine Can Favor DNA Platination by <i>trans</i> -Coordinated Platinum Antitumor Drugs. Angewandte Chemie - International Edition, 2009, 48, 8497-8500.	7.2	50
26	Effect of chirality in platinum drugs. Coordination Chemistry Reviews, 2015, 284, 286-297.	9.5	50
27	Solution Structure and Characterization of the Heme Chaperone CcmE. Biochemistry, 2002, 41, 13587-13594.	1.2	47
28	Platinum Complexes Can Inhibit Matrix Metalloproteinase Activity: Platinum <sup>II</sup> Diethyl[(methylsulfinyl)methyl]phosphonate Complexes as Inhibitors of Matrix Metalloproteinases 2, 3, 9, and 12. Journal of Medicinal Chemistry, 2007, 50, 3434-3441.	2.9	47
29	Structural Consequences of heme b <sub>L</sub> -type Heme Conversion in Oxidized Escherichia coli Cytochrome b <sub>562</sub> . Biochemistry, 2000, 39, 1499-1514.	1.2	46
30	Copper-Triggered Aggregation of Ubiquitin. PLoS ONE, 2009, 4, e7052.	1.1	46
31	Performance Assessment in Fingerprinting and Multi Component Quantitative NMR Analyses. Analytical Chemistry, 2015, 87, 6709-6717.	3.2	45
32	Cellular trafficking, accumulation and DNA platination of a series of cisplatin-based dicarboxylate Pt(IV) prodrugs. Journal of Inorganic Biochemistry, 2015, 150, 1-8.	1.5	44
33	Ortholog Search of Proteins Involved in Copper Delivery to Cytochrome c Oxidase and Functional Analysis of Paralogs and Gene Neighbors by Genomic Context. Journal of Proteome Research, 2005, 4, 63-70.	1.8	40
34	Silver and gold nanoparticles produced by pulsed laser ablation in liquid to investigate their interaction with Ubiquitin. Applied Surface Science, 2016, 374, 297-304.	3.1	40
35	Structural Interplay between Calcium(II) and Copper(II) Binding to S100A13 Protein. Angewandte Chemie - International Edition, 2005, 44, 6341-6344.	7.2	38
36	Interference between copper transport systems and platinum drugs. Seminars in Cancer Biology, 2021, 76, 173-188.	4.3	38

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37	Ubiquitin Stability and the Lys <sup>63</sup> -Linked Polyubiquitination Site Are Compromised on Copper Binding. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7993-7995.	7.2	36
38	Duplications of an iron-sulphur tripeptide leads to the formation of a protoferredoxin. <i>Chemical Communications</i> , 2016, 52, 13456-13459.	2.2	35
39	Concentration-dependent effects of mercury and lead on A $\beta$ 42: possible implications for Alzheimer's disease. <i>European Biophysics Journal</i> , 2019, 48, 173-187.	1.2	34
40	Platinum drugs, copper transporters and copper chelators. <i>Coordination Chemistry Reviews</i> , 2018, 374, 254-260.	9.5	31
41	Activation of Platinum(IV) Prodrugs by Cytochrome <i>c</i> and Characterization of the Protein Binding Sites. <i>Molecular Pharmaceutics</i> , 2016, 13, 3216-3223.	2.3	30
42	Platination of the copper transporter ATP7A involved in anticancer drug resistance. <i>Dalton Transactions</i> , 2014, 43, 12085.	1.6	29
43	Solution structure of the B form of oxidized rat microsomal cytochrome <i>b5</i> and backbone dynamics via 15N rotating-frame NMR-relaxation measurements. <i>FEBS Journal</i> , 1999, 260, 347-354.	0.2	28
44	Mechanistic Insight into the Inhibition of Matrix Metalloproteinases by Platinum Substrates. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 7847-7855.	2.9	28
45	Structural Determinants of Cisplatin and Transplatin Binding to the Met-Rich Motif of Ctr1: A Computational Spectroscopy Approach. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2912-2920.	2.3	27
46	The auto-orientation in high magnetic fields of oxidized cytochrome <i>b562</i> as source of constraints for solution structure determination. <i>Journal of Biomolecular NMR</i> , 2000, 17, 295-304.	1.6	25
47	Crystallographic Analysis of Metal-Ion Binding to Human Ubiquitin. <i>Chemistry - A European Journal</i> , 2011, 17, 1569-1578.	1.7	25
48	<sup>19</sup> F NMR Allows the Investigation of the Fate of Platinum(IV) Prodrugs in Physiological Conditions. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	25
49	Structural probing of Zn(II), Cd(II) and Hg(II) binding to human ubiquitin. <i>Chemical Communications</i> , 2008, , 5960.	2.2	24
50	Amyloid Transition of Ubiquitin on Silver Nanoparticles Produced by Pulsed Laser Ablation in Liquid as a Function of Stabilizer and Single-Point Mutations. <i>Chemistry - A European Journal</i> , 2014, 20, 10745-10751.	1.7	24
51	Mechanistic and Structural Basis for Inhibition of Copper Trafficking by Platinum Anticancer Drugs. <i>Journal of the American Chemical Society</i> , 2019, 141, 12109-12120.	6.6	24
52	The Effects of Chronic Lifelong Activation of the AHR Pathway by Industrial Chemical Pollutants on Female Human Reproduction. <i>PLoS ONE</i> , 2016, 11, e0152181.	1.1	23
53	A Bio-Conjugated Fullerene as a Subcellular-Targeted and Multifaceted Phototheranostic Agent. <i>Advanced Functional Materials</i> , 2021, 31, 2101527.	7.8	22
54	A Contribution to the Harmonization of Non-targeted NMR Methods for Data-Driven Food Authenticity Assessment. <i>Food Analytical Methods</i> , 2020, 13, 530-541.	1.3	21

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55	Computational metallomics of the anticancer drug cisplatin. <i>Journal of Inorganic Biochemistry</i> , 2015, 153, 231-238.	1.5	20
56	Copper binding to naturally occurring, lactam form of angiogenin differs from that to recombinant protein, affecting their activity. <i>Metallomics</i> , 2016, 8, 118-124.	1.0	20
57	Solution Structure of Oxidized Rat Microsomal Cytochrome b5 in the Presence of 2 M Guanidinium Chloride: Monitoring the Early Steps in Protein Unfolding. <i>Biochemistry</i> , 1998, 37, 17082-17092.	1.2	19
58	Tryptophan regulates <i>Drosophila</i> zinc stores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117807119.	3.3	19
59	Monitoring Mobility in the Early Steps of Unfolding: The Case of Oxidized Cytochrome b5 in the Presence of 2 M Guanidinium Chloride. <i>Biochemistry</i> , 2000, 39, 7117-7130.	1.2	18
60	Effect of Thioethers on DNA Platination by trans-Platinum Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 8168-8176.	1.9	17
61	Oxaliplatin Binding to Human Copper Chaperone Atox1 and Protein Dimerization. <i>Inorganic Chemistry</i> , 2016, 55, 6563-6573.	1.9	17
62	Effect of <i>in vivo</i> post-translational modifications of the HMGB1 protein upon binding to platinated DNA: a molecular simulation study. <i>Nucleic Acids Research</i> , 2018, 46, 11687-11697.	6.5	15
63	Monitoring Interactions Inside Cells by Advanced Spectroscopies: Overview of Copper Transporters and Cisplatin. <i>Current Medicinal Chemistry</i> , 2018, 25, 462-477.	1.2	15
64	An Italian contribution to structural genomics: Understanding metalloproteins. <i>Coordination Chemistry Reviews</i> , 2006, 250, 1419-1450.	9.5	14
65	Chemical and cellular investigations of trans-ammine-pyridine-dichlorido-platinum(II), the likely metabolite of the antitumor active cis-diammine-pyridine-chlorido-platinum(II). <i>Journal of Inorganic Biochemistry</i> , 2013, 129, 15-22.	1.5	14
66	Structural Biology of Cisplatin Complexes with Cellular Targets: The Adduct with Human Copper Chaperone Atox1 in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2014, 20, 11719-11725.	1.7	14
67	Cisplatin reacts with histone H1 and the adduct forms a ternary complex with DNA. <i>Metallomics</i> , 2019, 11, 556-564.	1.0	14
68	Cisplatin handover between copper transporters: the effect of reducing agents. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 705-714.	1.1	13
69	Investigation on the influence of (Z)-3-(2-(3-chlorophenyl)hydrazono)-5,6-dihydroxyindolin-2-one (PT2) on $\beta$ -amyloid(1-40) aggregation and toxicity. <i>Archives of Biochemistry and Biophysics</i> , 2014, 560, 73-82.	1.4	12
70	Molecular Recognition of Platinated DNA from Chromosomal HMGB1. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3578-3584.	2.3	12
71	Effect of cisplatin on the transport activity of P <sub>II</sub> -type ATPases. <i>Metallomics</i> , 2017, 9, 960-968.	1.0	12
72	Structure of matrix metalloproteinase-3 with a platinum-based inhibitor. <i>Chemical Communications</i> , 2013, 49, 5492.	2.2	11

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73	Cyanocobalamin conjugates of cisplatin and diaminocyclohexane-platinum(II): matrix-assisted laser desorption ionization mass spectrometry characterization using 4-chloro-L-cyanocinnamic acid as the matrix. RSC Advances, 2017, 7, 53658-53666.	1.7	10
74	Differential Reactivity of Metal Binding Domains of Copper ATPases towards Cisplatin and Colocalization of Copper and Platinum. Chemistry - A European Journal, 2018, 24, 8999-9003.	1.7	10
75	Tetrathiomolybdate inhibits the reaction of cisplatin with human copper chaperone Atox1. Metallomics, 2018, 10, 745-750.	1.0	10
76	Improvement of Kiteplatin Efficacy by a Benzoato Pt(IV) Prodrug Suitable for Oral Administration. International Journal of Molecular Sciences, 2022, 23, 7081.	1.8	9
77	<sup>19</sup> F NMR Allows the Investigation of the Fate of Platinum(IV) Prodrugs in Physiological Conditions. Angewandte Chemie, 2022, 134, .	1.6	8
78	The reaction of a platinated methionine motif of CTR1 with cysteine and histidine is dependent upon the type of precursor platinum complex. Journal of Inorganic Biochemistry, 2015, 153, 239-246.	1.5	7
79	NMR spectroscopy to study the fate of metallodrugs in cells. Current Opinion in Chemical Biology, 2021, 61, 214-226.	2.8	7
80	Structural Elucidation of Cisplatin and Hydrated <i>cis</i> -Diammineplatinum(II) Complex Conjugated with Cyanocobalamin by Liquid Chromatography with Electrospray Ionization–Mass Spectrometry and Multistage Mass Spectrometry. ACS Omega, 2018, 3, 12914-12922.	1.6	6
81	Multinuclear Metal-Binding Ability of the N-Terminal Region of Human Copper Transporter Ctr1: Dependence Upon pH and Metal Oxidation State. Frontiers in Molecular Biosciences, 2022, 9, .	1.6	6
82	The zinc proteome of SARS-CoV-2. Metallomics, 2022, 14, .	1.0	6
83	Unusual Interstrand Pt( <i>cis</i> -S,S-diaminocyclohexane)–GG Crosslink Formed by Rearrangement of a Classical Intrastrand Crosslink Within a DNA Duplex. Chemistry - an Asian Journal, 2010, 5, 244-247.	1.7	5
84	Conformational Selection of Ubiquitin Quaternary Structures Driven by Zinc Ions. Chemistry - A European Journal, 2013, 19, 15480-15484.	1.7	5
85	Analysis by phage display selection and site-directed retromutagenesis of the Mustard Trypsin Inhibitor 2 reactive site. Journal of Plant Physiology, 2010, 167, 1507-1511.	1.6	4
86	Probing the interaction between cisplatin and the therapeutic monoclonal antibody trastuzumab. RSC Advances, 2016, 6, 29229-29236.	1.7	4
87	Oxidation of Human Copper Chaperone Atox1 and Disulfide Bond Cleavage by Cisplatin and Glutathione. International Journal of Molecular Sciences, 2019, 20, 4390.	1.8	3
88	CHAPTER 15. Platinum. 2-Oxoglutarate-Dependent Oxygenases, 2014, , 429-460.	0.8	3
89	Interaction of Copper Trafficking Proteins with the Platinum Anticancer Drug Kiteplatin. ChemMedChem, 2022, 17, .	1.6	3
90	Reaction of Histone H1 with <i>trans</i> -Platinum Complexes and the Effect on DNA Platination. Inorganic Chemistry, 2019, 58, 6485-6494.	1.9	2

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91	Structural genomics on metalloproteins. <i>Gene Function &amp; Disease</i> , 2002, 3, 49-55.	0.3	1
92	Aggregation Pathways of Native-Like Ubiquitin Promoted by Single-Point Mutation, Metal Ion Concentration, and Dielectric Constant of the Medium. <i>Chemistry - A European Journal</i> , 2018, 24, 4140-4148.	1.7	1
93	Perspectives in Inorganic Structural Genomics: A Trafficking Route for Copper. <i>ChemInform</i> , 2004, 35, no.	0.1	0
94	PREFACE: Contributions to platinum bioinorganic chemistry and beyond honoring Professor Giovanni Natile on the occasion of his 70th birthday. <i>Journal of Inorganic Biochemistry</i> , 2015, 153, 204-205.	1.5	0
95	Copper Homeostasis in Humans and Bacteria. , 2017, , .		0