Claudia Andreini

List of Publications by Year
in descending order

		159585	223800
47	4,907	30	46
papers	citations	h-index	g-index
50	50	50	5950
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Counting the Zinc-Proteins Encoded in the Human Genome. Journal of Proteome Research, 2006, 5, 196-201.	3.7	887
2	Metal ions in biological catalysis: from enzyme databases to general principles. Journal of Biological Inorganic Chemistry, 2008, 13, 1205-1218.	2.6	868
3	Zinc through the Three Domains of Life. Journal of Proteome Research, 2006, 5, 3173-3178.	3.7	544
4	Metalloproteomes: A Bioinformatic Approach. Accounts of Chemical Research, 2009, 42, 1471-1479.	15.6	281
5	Occurrence of Copper Proteins through the Three Domains of Life: A Bioinformatic Approach. Journal of Proteome Research, 2008, 7, 209-216.	3.7	184
6	A bioinformatics view of zinc enzymes. Journal of Inorganic Biochemistry, 2012, 111, 150-156.	3.5	168
7	MetalPDB in 2018: a database of metal sites in biological macromolecular structures. Nucleic Acids Research, 2018, 46, D459-D464.	14.5	165
8	MetalPDB: a database of metal sites in biological macromolecular structures. Nucleic Acids Research, 2012, 41, D312-D319.	14.5	157
9	A hint to search for metalloproteins in gene banks. Bioinformatics, 2004, 20, 1373-1380.	4.1	120
10	Minimal Functional Sites Allow a Classification of Zinc Sites in Proteins. PLoS ONE, 2011, 6, e26325.	2.5	113
11	The human iron-proteomeâ€. Metallomics, 2018, 10, 1223-1231.	2.4	106
12	Mycobacterial Cells Have Dual Nickel-Cobalt Sensors. Journal of Biological Chemistry, 2007, 282, 32298-32310.	3.4	91
13	Predicting zinc binding at the proteome level. BMC Bioinformatics, 2007, 8, 39.	2.6	89
14	Metal-MACiE: a database of metals involved in biological catalysis. Bioinformatics, 2009, 25, 2088-2089.	4.1	73
15	MACiE: exploring the diversity of biochemical reactions. Nucleic Acids Research, 2012, 40, D783-D789.	14.5	73
16	Non-heme iron through the three domains of life. Proteins: Structure, Function and Bioinformatics, 2007, 67, 317-324.	2.6	70
17	The cellular economy of the <i>Saccharomyces cerevisiae</i> zinc proteome. Metallomics, 2018, 10, 1755-1776.	2.4	66
18	Multi-metal Restriction by Calprotectin Impacts De Novo Flavin Biosynthesis in Acinetobacter baumannii. Cell Chemical Biology, 2019, 26, 745-755.e7.	5.2	61

#	Article	IF	Citations
19	MetalPredator: a web server to predict ironâ€"sulfur cluster binding proteomes. Bioinformatics, 2016, 32, 2850-2852.	4.1	58
20	HIV-1 Tat Promotes Integrin-Mediated HIV Transmission to Dendritic Cells by Binding Env Spikes and Competes Neutralization by Anti-HIV Antibodies. PLoS ONE, 2012, 7, e48781.	2.5	56
21	To what extent do structural changes in catalytic metal sites affect enzyme function?. Journal of Inorganic Biochemistry, 2018, 179, 40-53.	3.5	55
22	The Relationship between Environmental Dioxygen and Iron-Sulfur Proteins Explored at the Genome Level. PLoS ONE, 2017, 12, e0171279.	2.5	49
23	Structural Analysis of Metal Sites in Proteins: Non-heme Iron Sites as a Case Study. Journal of Molecular Biology, 2009, 388, 356-380.	4.2	48
24	PDBe-KB: collaboratively defining the biological context of structural data. Nucleic Acids Research, 2022, 50, D534-D542.	14.5	46
25	FindGeo: a tool for determining metal coordination geometry. Bioinformatics, 2012, 28, 1658-1660.	4.1	45
26	Exploiting Bacterial Operons To Illuminate Human Ironâ€"Sulfur Proteins. Journal of Proteome Research, 2016, 15, 1308-1322.	3.7	42
27	Upgrading and Validation of the AMBER Force Field for Histidine and Cysteine Zinc(II)-Binding Residues in Sites with Four Protein Ligands. Journal of Chemical Information and Modeling, 2019, 59, 3803-3816.	5.4	42
28	Predicting metals sensed by ArsRâ€SmtB repressors: allosteric interference by a nonâ€effector metal. Molecular Microbiology, 2006, 59, 1341-1356.	2.5	40
29	Bioinformatic Comparison of Structures and Homology-Models of Matrix Metalloproteinases. Journal of Proteome Research, 2004, 3, 21-31.	3.7	35
30	Comparative Analysis of the ADAM and ADAMTS Families. Journal of Proteome Research, 2005, 4, 881-888.	3.7	32
31	A Simple Protocol for the Comparative Analysis of the Structure and Occurrence of Biochemical Pathways Across Superkingdoms. Journal of Chemical Information and Modeling, 2011, 51, 730-738.	5.4	28
32	MetalS3, a database-mining tool for the identification of structurally similar metal sites. Journal of Biological Inorganic Chemistry, 2014, 19, 937-945.	2.6	28
33	Upgraded AMBER Force Field for Zinc-Binding Residues and Ligands for Predicting Structural Properties and Binding Affinities in Zinc-Proteins. ACS Omega, 2020, 5, 15301-15310.	3.5	27
34	Differential Effects of Iron, Zinc, and Copper on Dictyostelium discoideum Cell Growth and Resistance to Legionella pneumophila. Frontiers in Cellular and Infection Microbiology, 2017, 7, 536.	3.9	25
35	Identification of the zinc, copper and cadmium metalloproteome of the protozoon Tetrahymena thermophila by systematic bioinformatics. Archives of Microbiology, 2017, 199, 1141-1149.	2.2	24
36	SPINE bioinformatics and data-management aspects of high-throughput structural biology. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1184-1195.	2.5	19

#	Article	IF	Citations
37	MetalS²: A Tool for the Structural Alignment of Minimal Functional Sites in Metal-Binding Proteins and Nucleic Acids. Journal of Chemical Information and Modeling, 2013, 53, 3064-3075.	5.4	16
38	Hidden relationships between metalloproteins unveiled by structural comparison of their metal sites. Scientific Reports, 2015, 5, 9486.	3.3	13
39	Minimal Functional Sites in Metalloproteins and Their Usage in Structural Bioinformatics. International Journal of Molecular Sciences, 2016, 17, 671.	4.1	12
40	HIV-1 Tat Protein Enters Dysfunctional Endothelial Cells via Integrins and Renders Them Permissive to Virus Replication. International Journal of Molecular Sciences, 2021, 22, 317.	4.1	12
41	A New Paradigm of Multiheme Cytochrome Evolution by Grafting and Pruning Protein Modules. Molecular Biology and Evolution, 2022, 39, .	8.9	12
42	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. Journal of Chemical Information and Modeling, 2022, 62, 2951-2960.	5.4	6
43	The zinc proteome of SARS-CoV-2. Metallomics, 2022, 14, .	2.4	6
44	Structural Bioinformatics and Deep Learning of Metalloproteins: Recent Advances and Applications. International Journal of Molecular Sciences, 2022, 23, 7684.	4.1	6
45	7. Basic Iron-Sulfur Centers. , 2020, 20, 199-256.		2
46	Systematic classification of metalloproteins based on three-dimensional structural similarity of their metal sites. Protocol Exchange, 0, , .	0.3	1
47	The Intriguing Role of Iron-Sulfur Clusters in the CIAPIN1 Protein Family. Inorganics, 2022, 10, 52.	2.7	1