Claudia Andreini

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	PDBe-KB: collaboratively defining the biological context of structural data. Nucleic Acids Research, 2022, 50, D534-D542.	14.5	46
2	The Intriguing Role of Iron-Sulfur Clusters in the CIAPIN1 Protein Family. Inorganics, 2022, 10, 52.	2.7	1
3	A New Paradigm of Multiheme Cytochrome Evolution by Grafting and Pruning Protein Modules. Molecular Biology and Evolution, 2022, 39, .	8.9	12
4	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
5	The zinc proteome of SARS-CoV-2. Metallomics, 2022, 14, .	2.4	6
6	Structural Bioinformatics and Deep Learning of Metalloproteins: Recent Advances and Applications. International Journal of Molecular Sciences, 2022, 23, 7684.	4.1	6
7	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
8	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
9	7. Basic Iron-Sulfur Centers. , 2020, 20, 199-256.		2
10	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
11	Multi-metal Restriction by Calprotectin Impacts De Novo Flavin Biosynthesis in Acinetobacter baumannii. Cell Chemical Biology, 2019, 26, 745-755.e7.	5.2	61
12	MetalPDB in 2018: a database of metal sites in biological macromolecular structures. Nucleic Acids Research, 2018, 46, D459-D464.	14.5	165
13	To what extent do structural changes in catalytic metal sites affect enzyme function?. Journal of Inorganic Biochemistry, 2018, 179, 40-53.	3.5	55
14	The cellular economy of the <i>Saccharomyces cerevisiae</i> zinc proteome. Metallomics, 2018, 10, 1755-1776.	2.4	66
15	The human iron-proteomeâ€. Metallomics, 2018, 10, 1223-1231.	2.4	106
16	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
17	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
18	The Relationship between Environmental Dioxygen and Iron-Sulfur Proteins Explored at the Genome Level. PLoS ONE, 2017, 12, e0171279.	2.5	49

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19	Minimal Functional Sites in Metalloproteins and Their Usage in Structural Bioinformatics. International Journal of Molecular Sciences, 2016, 17, 671.	4.1	12
20	MetalPredator: a web server to predict ironâ€“sulfur cluster binding proteomes. Bioinformatics, 2016, 32, 2850-2852.	4.1	58
21	Exploiting Bacterial Operons To Illuminate Human Ironâ€“Sulfur Proteins. Journal of Proteome Research, 2016, 15, 1308-1322.	3.7	42
22	Hidden relationships between metalloproteins unveiled by structural comparison of their metal sites. Scientific Reports, 2015, 5, 9486.	3.3	13
23	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
24	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
25	MACiE: exploring the diversity of biochemical reactions. Nucleic Acids Research, 2012, 40, D783-D789.	14.5	73
26	FindGeo: a tool for determining metal coordination geometry. Bioinformatics, 2012, 28, 1658-1660.	4.1	45
27	MetalPDB: a database of metal sites in biological macromolecular structures. Nucleic Acids Research, 2012, 41, D312-D319.	14.5	157
28	A bioinformatics view of zinc enzymes. Journal of Inorganic Biochemistry, 2012, 111, 150-156.	3.5	168
29	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
30	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
31	Minimal Functional Sites Allow a Classification of Zinc Sites in Proteins. PLoS ONE, 2011, 6, e26325.	2.5	113
32	Metal-MACiE: a database of metals involved in biological catalysis. Bioinformatics, 2009, 25, 2088-2089.	4.1	73
33	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
34	Metalloproteomes: A Bioinformatic Approach. Accounts of Chemical Research, 2009, 42, 1471-1479.	15.6	281
35	Metal ions in biological catalysis: from enzyme databases to general principles. Journal of Biological Inorganic Chemistry, 2008, 13, 1205-1218.	2.6	868
36	Occurrence of Copper Proteins through the Three Domains of Life: A Bioinformatic Approach. Journal of Proteome Research, 2008, 7, 209-216.	3.7	184

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37	Mycobacterial Cells Have Dual Nickel-Cobalt Sensors. Journal of Biological Chemistry, 2007, 282, 32298-32310.	3.4	91
38	Non-heme iron through the three domains of life. Proteins: Structure, Function and Bioinformatics, 2007, 67, 317-324.	2.6	70
39	Predicting zinc binding at the proteome level. BMC Bioinformatics, 2007, 8, 39.	2.6	89
40	Counting the Zinc-Proteins Encoded in the Human Genome. Journal of Proteome Research, 2006, 5, 196-201.	3.7	887
41	Zinc through the Three Domains of Life. Journal of Proteome Research, 2006, 5, 3173-3178.	3.7	544
42	SPINE bioinformatics and data-management aspects of high-throughput structural biology. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1184-1195.	2.5	19
43	Predicting metals sensed by ArsRâ€SmtB repressors: allosteric interference by a nonâ€effector metal. Molecular Microbiology, 2006, 59, 1341-1356.	2.5	40
44	Comparative Analysis of the ADAM and ADAMTS Families. Journal of Proteome Research, 2005, 4, 881-888.	3.7	32
45	A hint to search for metalloproteins in gene banks. Bioinformatics, 2004, 20, 1373-1380.	4.1	120
46	Bioinformatic Comparison of Structures and Homology-Models of Matrix Metalloproteinases. Journal of Proteome Research, 2004, 3, 21-31.	3.7	35
47	Systematic classification of metalloproteins based on three-dimensional structural similarity of their metal sites. Protocol Exchange, 0, , .	0.3	1