

Simone Ciofi-Baffoni

List of Publications by Year in descending order

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88
papers

5,403
citations

57631

44
h-index

82410

72
g-index

91
all docs

91
docs citations

91
times ranked

4628
citing authors

#	ARTICLE	IF	CITATIONS
1	Affinity gradients drive copper to cellular destinations. <i>Nature</i> , 2010, 465, 645-648.	13.7	395
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	MIA40 is an oxidoreductase that catalyzes oxidative protein folding in mitochondria. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 198-206.	3.6	230
4	Mitochondrial copper(I) transfer from Cox17 to Sco1 is coupled to electron transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6803-6808.	3.3	162
5	Structure of human Wilson protein domains 5 and 6 and their interplay with domain 4 and the copper chaperone HAH1 in copper uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5729-5734.	3.3	150
6	Cellular copper distribution: a mechanistic systems biology approach. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 2563-2589.	2.4	145
7	A novel intermembrane space targeting signal docks cysteines onto Mia40 during mitochondrial oxidative folding. <i>Journal of Cell Biology</i> , 2009, 187, 1007-1022.	2.3	144
8	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
9	A New Zinc protein Coordination Site in Intracellular Metal Trafficking: Solution Structure of the Apo and Zn(II) forms of ZntA(46-118). <i>Journal of Molecular Biology</i> , 2002, 323, 883-897.	2.0	132
10	Solution Structure of the Yeast Copper Transporter Domain Ccc2a in the Apo and Cu(I)-loaded States. <i>Journal of Biological Chemistry</i> , 2001, 276, 8415-8426.	1.6	122
11	Solution Structure of Sco1. <i>Structure</i> , 2003, 11, 1431-1443.	1.6	120
12	Human Sco1 functional studies and pathological implications of the P174L mutant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15-20.	3.3	120
13	Molecular chaperone function of Mia40 triggers consecutive induced folding steps of the substrate in mitochondrial protein import. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20190-20195.	3.3	116
14	[2Fe-2S] cluster transfer in iron-sulfur protein biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6203-6208.	3.3	116
15	Formation of [4Fe-4S] Clusters in the Mitochondrial Iron-Sulfur Cluster Assembly Machinery. <i>Journal of the American Chemical Society</i> , 2014, 136, 16240-16250.	6.6	114
16	Mechanism of CuA assembly. <i>Nature Chemical Biology</i> , 2008, 4, 599-601.	3.9	113
17	[4Fe-4S] Cluster Assembly in Mitochondria and Its Impairment by Copper. <i>Journal of the American Chemical Society</i> , 2017, 139, 719-730.	6.6	103
18	Emergence of a Homo sapiens-specific gene family and chromosome 16p11.2 CNV susceptibility. <i>Nature</i> , 2016, 536, 205-209.	13.7	102

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19	A hint for the function of human Sco1 from different structures. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8595-8600.	3.3	99
20	Mitochondrial Bol1 and Bol3 function as assembly factors for specific iron-sulfur proteins. ELife, 2016, 5, .	2.8	96
21	Solution Structure of Cox11, a Novel Type of $\hat{1}^2$ -Immunoglobulin-like Fold Involved in CuB Site Formation of Cytochrome c Oxidase. Journal of Biological Chemistry, 2004, 279, 34833-34839.	1.6	93
22	Molecular recognition and substrate mimicry drive the electron-transfer process between MIA40 and ALR. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4811-4816.	3.3	92
23	A Structural-Dynamical Characterization of Human Cox17. Journal of Biological Chemistry, 2008, 283, 7912-7920.	1.6	91
24	Lignin and Mn Peroxidase-Catalyzed Oxidation of Phenolic Lignin Oligomers. Biochemistry, 1999, 38, 3205-3210.	1.2	87
25	A copper(I) protein possibly involved in the assembly of CuA center of bacterial cytochrome c oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3994-3999.	3.3	87
26	Understanding Copper Trafficking in Bacteria: Interaction between the Copper Transport Protein CopZ and the N-Terminal Domain of the Copper ATPase CopA from <i>Bacillus subtilis</i> . Biochemistry, 2003, 42, 1939-1949.	1.2	84
27	Protein networks in the maturation of human iron-sulfur proteins. Metallomics, 2018, 10, 49-72.	1.0	79
28	Perspectives in Inorganic Structural Genomics: A Trafficking Route for Copper. European Journal of Inorganic Chemistry, 2004, 2004, 1583-1593.	1.0	77
29	N-terminal domains mediate [2Fe-2S] cluster transfer from glutaredoxin-3 to anamorsin. Nature Chemical Biology, 2015, 11, 772-778.	3.9	71
30	Solution structure of the N-terminal domain of a potential copper-translocating P-type ATPase from <i>Bacillus subtilis</i> in the apo and Cu(I) loaded states. Journal of Molecular Biology, 2002, 317, 415-429.	2.0	67
31	Oxidation of a Tetrameric Nonphenolic Lignin Model Compound by Lignin Peroxidase. Journal of Biological Chemistry, 2001, 276, 22985-22990.	1.6	65
32	Anamorsin Is a [2Fe-2S] Cluster-Containing Substrate of the Mia40-Dependent Mitochondrial Protein Trapping Machinery. Chemistry and Biology, 2011, 18, 794-804.	6.2	65
33	Elucidating the Molecular Function of Human BOLA2 in GRX3-Dependent Anamorsin Maturation Pathway. Journal of the American Chemical Society, 2015, 137, 16133-16143.	6.6	64
34	Molecular view of an electron transfer process essential for iron-sulfur protein biogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7136-7141.	3.3	63
35	Structural Basis for the Function of the N-terminal Domain of the ATPase CopA from <i>Bacillus subtilis</i> . Journal of Biological Chemistry, 2003, 278, 50506-50513.	1.6	62
36	Structural Basis for Metal Binding Specificity: the N-terminal Cadmium Binding Domain of the P1-type ATPase CadA. Journal of Molecular Biology, 2006, 356, 638-650.	2.0	59

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37	An NMR study of the interaction between the human copper(I) chaperone and the second and fifth metal-binding domains of the Menkes protein. <i>FEBS Journal</i> , 2005, 272, 865-871.	2.2	57
38	The delivery of copper for thylakoid import observed by NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8320-8325.	3.3	55
39	A Structural Characterization of Human SCO2. <i>Structure</i> , 2007, 15, 1132-1140.	1.6	54
40	Solution Structures of a Cyanobacterial Metallochaperone. <i>Journal of Biological Chemistry</i> , 2004, 279, 27502-27510.	1.6	50
41	Human anamorsin binds [2Fe-2S] clusters with unique electronic properties. <i>Journal of Biological Inorganic Chemistry</i> , 2013, 18, 883-893.	1.1	50
42	Seeking the determinants of the elusive functions of Sco proteins. <i>FEBS Journal</i> , 2011, 278, 2244-2262.	2.2	49
43	Structural Consequences of β -toc-type Heme Conversion in Oxidized <i>Escherichia coli</i> Cytochrome b562. <i>Biochemistry</i> , 2000, 39, 1499-1514.	1.2	46
44	Structural insights into the molecular function of human [2Fe-2S] BOLA1-GRX5 and [2Fe-2S] BOLA3-GRX5 complexes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2119-2131.	1.1	46
45	IBA57 Recruits ISCA2 to Form a [2Fe-2S] Cluster-Mediated Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 14401-14412.	6.6	44
46	NMR Structural Analysis of Cadmium Sensing by Winged Helix Repressor CmtR. <i>Journal of Biological Chemistry</i> , 2007, 282, 30181-30188.	1.6	41
47	An Electron-Transfer Path through an Extended Disulfide Relay System: The Case of the Redox Protein ALR. <i>Journal of the American Chemical Society</i> , 2012, 134, 1442-1445.	6.6	40
48	A pathway for assembling [4Fe-4S] ²⁺ clusters in mitochondrial iron-sulfur protein biogenesis. <i>FEBS Journal</i> , 2020, 287, 2312-2327.	2.2	36
49	The Characterization and Role of Zinc Binding in Yeast Cox4. <i>Journal of Biological Chemistry</i> , 2007, 282, 8926-8934.	1.6	35
50	Structure and Cu(I)-binding properties of the N-terminal soluble domains of <i>Bacillus subtilis</i> CopA. <i>Biochemical Journal</i> , 2008, 411, 571-579.	1.7	34
51	The IR-15N-HSQC-AP experiment: a new tool for NMR spectroscopy of paramagnetic molecules. <i>Journal of Biomolecular NMR</i> , 2014, 58, 123-128.	1.6	34
52	Effects of Heme on the Structure of the Denatured State and Folding Kinetics of Cytochrome b562. <i>Journal of Molecular Biology</i> , 2005, 346, 331-344.	2.0	33
53	A Core Mutation Affecting the Folding Properties of a Soluble Domain of the ATPase Protein CopA from <i>Bacillus subtilis</i> . <i>Journal of Molecular Biology</i> , 2003, 331, 473-484.	2.0	32
54	Anamorsin/Ndor1 Complex Reduces [2Fe-2S]-MitoNEET via a Transient Protein-Protein Interaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 9479-9482.	6.6	30

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55	Modeling Protein-Protein Complexes Involved in the Cytochrome Oxidase Copper-Delivery Pathway. <i>Journal of Proteome Research</i> , 2007, 6, 1530-1539.	1.8	27
56	Structural characterization of CHCHD5 and CHCHD7: Two atypical human twin CX9C proteins. <i>Journal of Structural Biology</i> , 2012, 180, 190-200.	1.3	26
57	The coiled coil-helix-coiled coil-helix proteins may be redox proteins. <i>FEBS Letters</i> , 2009, 583, 1699-1702.	1.3	25
58	Targeting and Maturation of Erv1/ALR in the Mitochondrial Intermembrane Space. <i>ACS Chemical Biology</i> , 2012, 7, 707-714.	1.6	25
59	The NMR contribution to protein-protein networking in Fe-S protein maturation. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 665-685.	1.1	25
60	A new asymmetric approach toward 5-substituted pyrrolidin-2-one derivatives. <i>Tetrahedron</i> , 1998, 54, 10403-10418.	1.0	24
61	Synthesis of oligomeric mimics of lignin. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998, , 3207-3218.	0.9	23
62	Iron-sulfur clusters as inhibitors and catalysts of viral replication. <i>Nature Chemistry</i> , 2022, 14, 253-266.	6.6	23
63	Functional Role of Two Interhelical Disulfide Bonds in Human Cox17 Protein from a Structural Perspective. <i>Journal of Biological Chemistry</i> , 2011, 286, 34382-34390.	1.6	22
64	Structural properties of [2Fe-2S] ISCA2-IBA57: a complex of the mitochondrial iron-sulfur cluster assembly machinery. <i>Scientific Reports</i> , 2019, 9, 18986.	1.6	22
65	Copper exposure effects on yeast mitochondrial proteome. <i>Journal of Proteomics</i> , 2011, 74, 2522-2535.	1.2	20
66	NMR structural analysis of the soluble domain of ZiaA-ATPase and the basis of selective interactions with copper metallochaperone Atx1. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 87-98.	1.1	19
67	Sco proteins are involved in electron transfer processes. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 391-403.	1.1	19
68	GLRX3 Acts as a [2Fe-2S] Cluster Chaperone in the Cytosolic Iron-Sulfur Assembly Machinery Transferring [2Fe-2S] Clusters to NUBP1. <i>Journal of the American Chemical Society</i> , 2020, 142, 10794-10805.	6.6	17
69	An Intrinsically Disordered Domain Has a Dual Function Coupled to Compartment-Dependent Redox Control. <i>Journal of Molecular Biology</i> , 2013, 425, 594-608.	2.0	16
70	Paramagnetic 1H NMR Spectroscopy to Investigate the Catalytic Mechanism of Radical S-Adenosylmethionine Enzymes. <i>Journal of Molecular Biology</i> , 2019, 431, 4514-4522.	2.0	16
71	15N Backbone Dynamics of Ferricytochrome b562: A Comparison with the Reduced Protein and the R98C Variant. <i>Biochemistry</i> , 2001, 40, 12761-12771.	1.2	14
72	An Italian contribution to structural genomics: Understanding metalloproteins. <i>Coordination Chemistry Reviews</i> , 2006, 250, 1419-1450.	9.5	14

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73	Copper trafficking in biology: An NMR approach. HFSP Journal, 2009, 3, 165-175.	2.5	14
74	NMR in the SPINE Structural Proteomics project. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1150-1161.	2.5	12
75	Kinetic analysis of copper transfer from a chaperone to its target protein mediated by complex formation. Chemical Communications, 2017, 53, 1397-1400.	2.2	12
76	ISCA1 Orchestrates ISCA2 and NFU1 in the Maturation of Human Mitochondrial [4Fe-4S] Proteins. Journal of Molecular Biology, 2021, 433, 166924.	2.0	11
77	Unfolding and pH studies on manganese peroxidase: Role of heme and calcium on secondary structure stability. Biopolymers, 2003, 72, 38-47.	1.2	10
78	Inâ€¦Cellulo MÃ¶ssbauer and EPR Studies Bring New Evidence to the Longâ€¦Standing Debate on Ironâ€¦Sulfur Cluster Binding in Human Anamorsin. Angewandte Chemie - International Edition, 2021, 60, 14841-14845.	7.2	8
79	Interconversion between [2Feâ€¦2S] and [4Feâ€¦4S] cluster glutathione complexes. Chemical Communications, 2022, 58, 3533-3536.	2.2	7
80	Molecular Basis of Multiple Mitochondrial Dysfunctions Syndrome 2 Caused by CYS59TYR BOLA3 Mutation. International Journal of Molecular Sciences, 2021, 22, 4848.	1.8	6
81	Protein-Interaction Affinity Gradient Drives [4Feâ€¦4S] Cluster Insertion in Human Lipoyl Synthase. Journal of the American Chemical Society, 2022, 144, 5713-5717.	6.6	6
82	The Effects of Ligand Exchange and Mobility on the Peroxidase Activity of a Bacterial Cytochrome c upon Unfolding. ChemBioChem, 2005, 6, 747-758.	1.3	5
83	In-house high-energy-remote SAD phasing using the magic triangle: how to tackle the <i>P</i>1 low symmetry using multiple orientations of the same crystal of human IBA57 to increase the multiplicity. Acta Crystallographica Section D: Structural Biology, 2019, 75, 317-324.	1.1	4
84	The human YAE1-ORAOV1 complex of the cytosolic iron-sulfur protein assembly machinery binds a [4Fe-4S] cluster. Inorganica Chimica Acta, 2021, 518, 120252.	1.2	3
85	7. Basic Iron-Sulfur Centers. , 2020, 20, 199-256.		2
86	The Intriguing Role of Iron-Sulfur Clusters in the CIAPIN1 Protein Family. Inorganics, 2022, 10, 52.	1.2	1
87	Perspectives in Inorganic Structural Genomics: A Trafficking Route for Copper. ChemInform, 2004, 35, no.	0.1	0
88	Inâ€¦Cellulo MÃ¶ssbauer and EPR Studies Bring New Evidence to the Longâ€¦Standing Debate on Ironâ€¦Sulfur Cluster Binding in Human Anamorsin. Angewandte Chemie, 2021, 133, 14967-14971.	1.6	0