

Gabriele Meloni

List of Publications by Year in descending order

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48
papers

1,785
citations

279701

23
h-index

276775

41
g-index

53
all docs

53
docs citations

53
times ranked

2227
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemistry and biology of mammalian metallothioneins. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 1067-1078.	1.1	235
2	Metal swap between Zn ⁷⁺ -metallothionein-3 and amyloid- β^2 Cu protects against amyloid- β^2 toxicity. <i>Nature Chemical Biology</i> , 2008, 4, 366-372.	3.9	181
3	Redox Silencing of Copper in Metal-linked Neurodegenerative Disorders. <i>Journal of Biological Chemistry</i> , 2007, 282, 16068-16078.	1.6	113
4	Structure and mechanism of Zn ²⁺ -transporting P-type ATPases. <i>Nature</i> , 2014, 514, 518-522.	13.7	107
5	Copper metallothioneins. <i>IUBMB Life</i> , 2017, 69, 236-245.	1.5	93
6	Mammalian Metallothionein-3: New Functional and Structural Insights. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1117.	1.8	70
7	Redox activity of β -synuclein Cu is silenced by Zn ⁷⁺ -metallothionein-3. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1471-1479.	1.3	66
8	The ABC exporter IrtAB imports and reduces mycobacterial siderophores. <i>Nature</i> , 2020, 580, 413-417.	13.7	63
9	Ratiometric two-photon microscopy reveals attomolar copper buffering in normal and Menkes mutant cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12167-12172.	3.3	61
10	Chemistry of mammalian metallothioneins and their interaction with amyloidogenic peptides and proteins. <i>Chemical Society Reviews</i> , 2017, 46, 7683-7693.	18.7	57
11	Organization and Assembly of Metal-Thiolate Clusters in Epithelium-specific Metallothionein-4. <i>Journal of Biological Chemistry</i> , 2006, 281, 14588-14595.	1.6	55
12	Zn ⁷⁺ Metallothionein-3 and the Synaptic Vesicle Cycle: Interaction of Metallothionein-3 with the Small GTPase Rab3A. <i>Biochemistry</i> , 2005, 44, 3159-3165.	1.2	54
13	Characterization of the role of metallothionein-3 in an animal model of Alzheimer's disease. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 3683-3700.	2.4	45
14	Structure and Function of Cu(I)- and Zn(II)-ATPases. <i>Biochemistry</i> , 2015, 54, 5673-5683.	1.2	43
15	A sulfur-based transport pathway in Cu ⁺ ATPases. <i>EMBO Reports</i> , 2015, 16, 728-740.	2.0	41
16	Stabilization of supramolecular membrane protein-lipid bilayer assemblies through immobilization in a crystalline exoskeleton. <i>Nature Communications</i> , 2021, 12, 2202.	5.8	35
17	Zinc release of Zn ⁷⁺ -metallothionein-3 induces fibrillar type amyloid- β^2 aggregates. <i>Metallomics</i> , 2010, 2, 741.	1.0	34
18	Detection of neuronal growth inhibitory factor (metallothionein-3) in polyacrylamide gels and by Western blot analysis. <i>Journal of Proteomics</i> , 2005, 64, 76-81.	2.4	33

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19	Effects of Zn ²⁺ , Ca ²⁺ , and Mg ²⁺ on the Structure of Zn ₇ Metallothionein-3: Evidence for an Additional Zinc Binding Site. <i>Biochemistry</i> , 2009, 48, 5700-5707.	1.2	33
20	A Responsive Magnetic Resonance Imaging Contrast Agent for Detection of Excess Copper(II) in the Liver <i>In Vivo</i> . <i>Journal of the American Chemical Society</i> , 2019, 141, 11009-11018.	6.6	33
21	On Allosteric Modulation of P-Type Cu ⁺ -ATPases. <i>Journal of Molecular Biology</i> , 2013, 425, 2299-2308.	2.0	30
22	The Glutathione/Metallothionein System Challenges the Design of Efficient O ₂ -Activating Copper Complexes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7830-7835.	7.2	30
23	The Sixteenth Iron in the Nitrogenase MoFe Protein. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10529-10532.	7.2	28
24	Non-coordinative metal selectivity bias in human metallothioneins metal ⁺ thiolate clusters. <i>Metallomics</i> , 2018, 10, 1777-1791.	1.0	25
25	The yeast copper chaperone for copper-zinc superoxide dismutase (CCS1) is a multifunctional chaperone promoting all levels of SOD1 maturation. <i>Journal of Biological Chemistry</i> , 2019, 294, 1956-1966.	1.6	22
26	Mutations in Superoxide Dismutase 1 (Sod1) Linked to Familial Amyotrophic Lateral Sclerosis Can Disrupt High-Affinity Zinc-Binding Promoted by the Copper Chaperone for Sod1 (Ccs). <i>Molecules</i> , 2020, 25, 1086.	1.7	19
27	A single point mutation converts a proton-pumping rhodopsin into a red-shifted, turn-on fluorescent sensor for chloride. <i>Chemical Science</i> , 2021, 12, 5655-5663.	3.7	19
28	The Catalytic Redox Activity of Prion Protein ^{Cu^{II}} is Controlled by Metal Exchange with the Zn ^{II} -Thiolate Clusters of Zn ₇ Metallothionein ³ . <i>ChemBioChem</i> , 2012, 13, 1261-1265.	1.3	18
29	Metal binding and interdomain thermodynamics of mammalian metallothionein-3: enthalpically favoured Cu ⁺ supplants entropically favoured Zn ²⁺ to form Cu ₄ ⁺ clusters under physiological conditions. <i>Chemical Science</i> , 2022, 13, 5289-5304.	3.7	18
30	Fluorescent Functionalization across Quaternary Structure in a Virus-like Particle. <i>Bioconjugate Chemistry</i> , 2017, 28, 2277-2283.	1.8	17
31	IroT/MavN Is a <i>Legionella</i> Transmembrane Fe(II) Transporter: Metal Selectivity and Translocation Kinetics Revealed by <i>In Vitro</i> Real-Time Transport. <i>Biochemistry</i> , 2019, 58, 4337-4342.	1.2	14
32	Transmembrane Type-2-like Cu ²⁺ Site in the P _{1B-3} -type ATPase CopB: Implications for Metal Selectivity. <i>ACS Chemical Biology</i> , 2014, 9, 116-121.	1.6	12
33	Crystal structure of the DNA-binding domain of Myelin-gene Regulatory Factor. <i>Scientific Reports</i> , 2017, 7, 3696.	1.6	12
34	Membrane insertion exacerbates the $\hat{\pm}$ -Synuclein-Cu(II) dopamine oxidase activity: Metallothionein-3 targets and silences all $\hat{\pm}$ -synuclein-Cu(II) complexes. <i>Free Radical Biology and Medicine</i> , 2020, 158, 149-161.	1.3	11
35	Evidence for a Long-Lived, Cu-Coupled and Oxygen-Inert Disulfide Radical Anion in the Assembly of Metallothionein-3 Cu(I) ₄ -Thiolate Cluster. <i>Journal of the American Chemical Society</i> , 2022, 144, 709-722.	6.6	10
36	Transmembrane Cu(i) P-type ATPase pumps are electrogenic uniporters. <i>Dalton Transactions</i> , 2020, 49, 16082-16094.	1.6	9

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37	Structure and ion-release mechanism of PIB-4-type ATPases. <i>ELife</i> , 2021, 10, .	2.8	8
38	Metallothionein-3, Zinc, and Copper in the Central Nervous System. <i>Metal Ions in Life Sciences</i> , 2009, , 319-351.	1.0	7
39	<sc>PcoB</sc> is a defense outer membrane protein that facilitates cellular uptake of copper. <i>Protein Science</i> , 2022, 31, .	3.1	5
40	Coordination promiscuity guarantees metal substrate selection in transmembrane primary-active Zn ²⁺ pumps. <i>Chemical Communications</i> , 2019, 55, 10844-10847.	2.2	4
41	The Glutathione/Metallothionein System Challenges the Design of Efficient O ₂ -Activating Copper Complexes. <i>Angewandte Chemie</i> , 2020, 132, 7904-7909.	1.6	4
42	METALLOTHIONEIN STRUCTURE AND REACTIVITY. , 2008, , 3-26.		3
43	A recombinant platform to characterize the role of transmembrane protein hTMEM205 in Pt(ii)-drug resistance and extrusion. <i>Metallomics</i> , 2020, 12, 1542-1554.	1.0	2
44	Control of Abnormal Metal-Protein Interactions in Neurodegenerative Disorders by Metallothionein-3. <i>Chimia</i> , 2009, 63, 211-213.	0.3	1
45	11 Metallothionein-3, Zinc, and Copper in the Central Nervous System. , 2015, , 319-352.		0
46	Mechanistic Dissection of Cu(I)-translocating P ₁ -type ATPase Pumps by <i>In vitro</i> Real-time Transport in Artificial Lipid Bilayer Vesicles. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
47	Metal Substrate Selectivity and Mechanism of Transport in a Transmembrane Zn-pump Revealed by <i>In vitro</i> Real-time Transport. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
48	Metal Substrate Translocation and Transport Mechanism of the <i>Sinorhizobium meliloti</i> P _{1B} - ₅ -type ATPase Nia Revealed by <i>In vitro</i> Transport Assays in Proteoliposomes. <i>FASEB Journal</i> , 2022, 36, .	0.2	0