

Peep Palumaa

List of Publications by Year in descending order

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62
papers

3,081
citations

159585

30
h-index

155660

55
g-index

64
all docs

64
docs citations

64
times ranked

3919
citing authors

#	ARTICLE	IF	CITATIONS
1	Affinity gradients drive copper to cellular destinations. <i>Nature</i> , 2010, 465, 645-648.	27.8	395
2	Binding of zinc(II) and copper(II) to the full-length Alzheimer's amyloid- β peptide. <i>Journal of Neurochemistry</i> , 2008, 104, 1249-1259.	3.9	201
3	Interactions of Zn(ii) and Cu(ii) ions with Alzheimer's amyloid-beta peptide. Metal ion binding, contribution to fibrillization and toxicity. <i>Metallomics</i> , 2011, 3, 250.	2.4	196
4	Zn(II)- and Cu(II)-induced non-fibrillar aggregates of amyloid- β (1-42) peptide are transformed to amyloid fibrils, both spontaneously and under the influence of metal chelators. <i>Journal of Neurochemistry</i> , 2009, 110, 1784-1795.	3.9	180
5	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.	7.1	162
6	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.	7.1	120
7	Human superoxide dismutase 1 (hSOD1) maturation through interaction with human copper chaperone for SOD1 (hCCS). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13555-13560.	7.1	120
8	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.	13.7	114
9	A hint for the function of human Sco1 from different structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8595-8600.	7.1	99
10	A Structural-Dynamical Characterization of Human Cox17. <i>Journal of Biological Chemistry</i> , 2008, 283, 7912-7920.	3.4	91
11	Metal-binding mechanism of Cox17, a copper chaperone for cytochrome c oxidase. <i>Biochemical Journal</i> , 2004, 382, 307-314.	3.7	87
12	Copper chaperones. The concept of conformational control in the metabolism of copper. <i>FEBS Letters</i> , 2013, 587, 1902-1910.	2.8	81
13	Brain-Specific Metallothionein-3 Has Higher Metal-Binding Capacity than Ubiquitous Metallothioneins and Binds Metals Noncooperatively. <i>Biochemistry</i> , 2002, 41, 6158-6163.	2.5	80
14	The missing link in the amyloid cascade of Alzheimer's disease - Metal ions. <i>Neurochemistry International</i> , 2013, 62, 367-378.	3.8	72
15	Copper(II)-binding equilibria in human blood. <i>Scientific Reports</i> , 2020, 10, 5686.	3.3	64
16	The Native Copper- and Zinc- Binding Protein Metallothionein Blocks Copper-Mediated $A\beta$ Aggregation and Toxicity in Rat Cortical Neurons. <i>PLoS ONE</i> , 2010, 5, e12030.	2.5	58
17	Organization and Assembly of Metal-Thiolate Clusters in Epithelium-specific Metallothionein-4. <i>Journal of Biological Chemistry</i> , 2006, 281, 14588-14595.	3.4	55
18	In situ fibrillizing amyloid-beta 1-42 induces neurite degeneration and apoptosis of differentiated SH-SY5Y cells. <i>PLoS ONE</i> , 2017, 12, e0186636.	2.5	55

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19	Metal binding of metallothionein-3 versus metallothionein-2: lower affinity and higher plasticity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1747, 205-211.	2.3	54
20	Oxidative switches in functioning of mammalian copper chaperone Cox17. <i>Biochemical Journal</i> , 2007, 408, 139-148.	3.7	50
21	Coordination of zinc ions to the key proteins of neurodegenerative diseases: A β , APP, α -synuclein and PrP. <i>Coordination Chemistry Reviews</i> , 2012, 256, 2219-2224.	18.8	50
22	<i>In vitro</i> fibrillization of Alzheimer's amyloid- β peptide (1-42). <i>AIP Advances</i> , 2015, 5, .	1.3	48
23	Copper(I)-binding properties of de-coppering drugs for the treatment of Wilson disease. α -Lipoic acid as a potential anti-copper agent. <i>Scientific Reports</i> , 2018, 8, 1463.	3.3	47
24	Effect of methionine-35 oxidation on the aggregation of amyloid- β peptide. <i>Biochemistry and Biophysics Reports</i> , 2015, 3, 94-99.	1.3	45
25	Interaction between Oligomers of Stefin B and Amyloid- β in Vitro and in Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 3201-3210.	3.4	40
26	Zn(II) ions co-secreted with insulin suppress inherent amyloidogenic properties of monomeric insulin. <i>Biochemical Journal</i> , 2010, 430, 511-518.	3.7	39
27	Nonoxidative cadmium-dependent dimerization of cadmium-metallothionein from rabbit liver. <i>Biochemistry</i> , 1992, 31, 2181-2186.	2.5	38
28	Effect of agitation on the peptide fibrillization: Alzheimer's amyloid- β peptide 1-42 but not amylin and insulin fibrils can grow under quiescent conditions. <i>Journal of Peptide Science</i> , 2013, 19, 386-391.	1.4	34
29	Label-Free High-Throughput Screening Assay for Inhibitors of Alzheimer's Amyloid- β Peptide Aggregation Based on MALDI MS. <i>Analytical Chemistry</i> , 2010, 82, 8558-8565.	6.5	31
30	Interference of low-molecular substances with the thioflavin-T fluorescence assay of amyloid fibrils. <i>Journal of Peptide Science</i> , 2012, 18, 59-64.	1.4	31
31	Reactivity of Cd7-metallothionein with Cu(II) ions: evidence for a cooperative formation of Cd3,Cu(I)5-metallothionein. <i>Journal of Inorganic Biochemistry</i> , 2001, 83, 1-6.	3.5	29
32	Mercury and Alzheimer's Disease: Hg(II) Ions Display Specific Binding to the Amyloid- β Peptide and Hinder Its Fibrillization. <i>Biomolecules</i> , 2020, 10, 44.	4.0	26
33	Evidence for non-isostructural replacement of Zn ²⁺ with Cd ²⁺ in the β -domain of brain-specific metallothionein-3. <i>FEBS Letters</i> , 2002, 527, 76-80.	2.8	24
34	Biological Redox Switches. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 981-983.	5.4	22
35	Insulin Fibrillization at Acidic and Physiological pH Values is Controlled by Different Molecular Mechanisms. <i>Protein Journal</i> , 2015, 34, 398-403.	1.6	21
36	Quantitative electrospray ionization mass spectrometry of zinc finger oxidation: The reaction of XPA zinc finger with H ₂ O ₂ . <i>Analytical Biochemistry</i> , 2007, 369, 226-231.	2.4	20

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37	Cox17, a copper chaperone for cytochrome c oxidase: Expression, purification, and formation of mixed disulphide adducts with thiol reagents. <i>Protein Expression and Purification</i> , 2007, 53, 138-144.	1.3	19
38	Affinity of zinc and copper ions for insulin monomers. <i>Metallomics</i> , 2014, 6, 1296-1300.	2.4	19
39	Binding of inorganic phosphate to the cadmium-induced dimeric form of metallothionein from rabbit liver. <i>FEBS Journal</i> , 1992, 205, 1131-1135.	0.2	18
40	Toxicity of Amyloid- β^2 Peptides Varies Depending on Differentiation Route of SH-SY5Y Cells. <i>Journal of Alzheimer's Disease</i> , 2019, 71, 879-887.	2.6	17
41	Formation and spectroscopic characterization of a novel monomeric cadmium- and phosphate-containing form of metallothionein. <i>Biochemistry</i> , 1993, 32, 2874-2879.	2.5	16
42	Reaction of the XPA Zinc Finger with S-Nitrosoglutathione. <i>Chemical Research in Toxicology</i> , 2008, 21, 386-392.	3.3	16
43	Metallothionein 2A affects the cell respiration by suppressing the expression of mitochondrial protein cytochrome c oxidase subunit II. <i>Journal of Bioenergetics and Biomembranes</i> , 2015, 47, 209-216.	2.3	13
44	The Role of Initial Oligomers in Amyloid Fibril Formation by Human Stefin B. <i>International Journal of Molecular Sciences</i> , 2013, 14, 18362-18384.	4.1	12
45	Stability and Conformation of Polycopper β -Thiolate Clusters Studied by Density Functional Approach. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9157-9164.	2.5	10
46	Modulation of Redox Switches of Copper Chaperone Cox17 by Zn(II) Ions Determined by New ESI MS-Based Approach. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 985-995.	5.4	8
47	Purification of recombinant human apometallothionein-3 and reconstitution with zinc. <i>Protein Expression and Purification</i> , 2003, 31, 161-165.	1.3	7
48	Maximum entropy reconstruction of joint β , γ -distribution with a coil-library prior: the backbone conformation of the peptide hormone motilin in aqueous solution from β and γ -dependent J-couplings. <i>Journal of Biomolecular NMR</i> , 2007, 38, 107-123.	2.8	7
49	β -Lipoic Acid Has the Potential to Normalize Copper Metabolism, Which Is Dysregulated in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2022, 85, 715-728.	2.6	7
50	Redox-active Cu(II)- β causes substantial changes in axonal integrity in cultured cortical neurons in an oxidative-stress dependent manner. <i>Experimental Neurology</i> , 2012, 237, 499-506.	4.1	6
51	The effects of physiologically important nonmetallic ligands in the reactivity of metallothionein towards 5,5'-dithiobis(2-nitrobenzoic acid). <i>FEBS Journal</i> , 2001, 268, 4979-4984.	0.2	5
52	Toxicity of amyloid beta 1-40 and 1-42 on SH-SY5Y cell line. <i>SpringerPlus</i> , 2015, 4, .	1.2	5
53	Copper(II) partially protects three histidine residues and the N-terminus of amyloid- β^2 peptide from diethyl pyrocarbonate (DEPC) modification. <i>FEBS Open Bio</i> , 2020, 10, 1072-1081.	2.3	4
54	Redox and Metal Ion Binding Properties of Human Insulin-like Growth Factor 1 Determined by Electrospray Ionization Mass Spectrometry. <i>Biochemistry</i> , 2012, 51, 5851-5859.	2.5	3

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55	Comprehensive elucidation of amino acid profile in human follicular fluid and plasma of <i>in vitro</i> fertilization patients. <i>Gynecological Endocrinology</i> , 2015, 31, 9-17.	1.7	3
56	Assessment of Blood Contamination in Biological Fluids Using MALDI-TOF MS. <i>Protein Journal</i> , 2016, 35, 171-176.	1.6	2
57	Evaluation of Zn ²⁺ - and Cu ²⁺ -Binding Affinities of Native Cu,Zn-SOD1 and Its G93A Mutant by LC-ICP MS. <i>Molecules</i> , 2022, 27, 3160.	3.8	2
58	Oxidation of Methionine-35 in Alzheimer's amyloid-beta peptide and the aggregation of the oxidized peptide. SpringerPlus, 2015, 4, .	1.2	1
59	Redox properties of Cys 2 His 2 and Cys 4 zinc fingers determined by electrospray ionization mass spectrometry. <i>FEBS Open Bio</i> , 2018, 8, 923-931.	2.3	1
60	Spectroscopic studies of metal-induced dimers of metallothionein. <i>Journal of Inorganic Biochemistry</i> , 1995, 59, 102.	3.5	0
61	Large-Scale HPLC Purification of Calbindin D9k from Porcine Intestine. <i>Protein Expression and Purification</i> , 1999, 17, 387-391.	1.3	0
62	Copper(II) ions and the Alzheimer's amyloid- β peptide: Affinity and stoichiometry of binding. , 2014, , .		0