

Giuseppe Pappalardo

List of Publications by Year in descending order

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100
papers

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citations

147566

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102
all docs

102
docs citations

102
times ranked

2981
citing authors

#	ARTICLE	IF	CITATIONS
1	β^2 -Amyloid Monomers Are Neuroprotective. <i>Journal of Neuroscience</i> , 2009, 29, 10582-10587.	1.7	350
2	Copper(II) Binding Modes in the Prion Octapeptide PHGGGWGQ: A Spectroscopic and Voltammetric Study. <i>Chemistry - A European Journal</i> , 2000, 6, 4195-4202.	1.7	113
3	Copper(II) Interaction with Prion Peptide Fragments Encompassing Histidine Residues Within and Outside the Octarepeat Domain: Speciation, Stability Constants and Binding Details. <i>Chemistry - A European Journal</i> , 2007, 13, 7129-7143.	1.7	107
4	Copper(II) Interaction with Unstructured Prion Domain Outside the Octarepeat Region: Speciation, Stability, and Binding Details of Copper(II) Complexes with PrP106-126 Peptides. <i>Inorganic Chemistry</i> , 2005, 44, 7214-7225.	1.9	94
5	The Metal Loading Ability of β^2 -Amyloid N-Terminus: A Combined Potentiometric and Spectroscopic Study of Copper(II) Complexes with β^2 -Amyloid(1-16), Its Short or Mutated Peptide Fragments, and Its Polyethylene Glycol (PEG)-ylated Analogue. <i>Inorganic Chemistry</i> , 2008, 47, 9669-9683.	1.9	92
6	Transition metal complexes of terminally protected peptides containing histidyl residues. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 1399-1409.	1.5	75
7	A peptide containing residues 26-44 of tau protein impairs mitochondrial oxidative phosphorylation acting at the level of the adenine nucleotide translocator. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 1289-1300.	0.5	72
8	The Monomer State of Beta-Amyloid: Where the Alzheimer's Disease Protein Meets Physiology. <i>Reviews in the Neurosciences</i> , 2010, 21, 83-93.	1.4	72
9	Copper(II) complexes of peptide fragments of the prion protein. Conformation changes induced by copper(II) and the binding motif in C-terminal protein region. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 133-143.	1.5	71
10	Metal Loading Capacity of β^2 N-Terminus: a Combined Potentiometric and Spectroscopic Study of Zinc(II) Complexes with β^2 (1-16), Its Short or Mutated Peptide Fragments and Its Polyethylene Glycol-ylated Analogue. <i>Inorganic Chemistry</i> , 2009, 48, 10405-10415.	1.9	70
11	Interaction of Copper(II) with the Prion Peptide Fragment HuPrP(76-114) Encompassing Four Histidyl Residues within and outside the Octarepeat Domain. <i>Inorganic Chemistry</i> , 2009, 48, 4239-4250.	1.9	69
12	Copper(I) and Copper(II) Inhibit β^2 Peptides Proteolysis by Insulin-Degrading Enzyme Differently: Implications for Metallostatic Alteration in Alzheimer's Disease. <i>Chemistry - A European Journal</i> , 2011, 17, 2752-2762.	1.7	68
13	Determination of the Conformation of the Human VDAC1 N-Terminal Peptide, a Protein Moiety Essential for the Functional Properties of the Pore. <i>ChemBioChem</i> , 2007, 8, 744-756.	1.3	66
14	Copper(II) interaction with amyloid- β^2 : Affinity and speciation. <i>Coordination Chemistry Reviews</i> , 2012, 256, 3-12.	9.5	66
15	A re-investigation of copper coordination in the octa-repeats region of the prion protein. <i>Dalton Transactions</i> , 2005, , 150-158.	1.6	55
16	Interactions of Cu ²⁺ with prion family peptide fragments: Considerations on affinity, speciation and coordination. <i>Coordination Chemistry Reviews</i> , 2012, 256, 2202-2218.	9.5	54
17	The role of copper in the aggregation of human amylin. <i>Metallomics</i> , 2014, 6, 1841-1852.	1.0	51
18	Copper(ii) and nickel(ii) binding modes in a histidine-containing model dodecapeptide. <i>New Journal of Chemistry</i> , 2002, 26, 593-600.	1.4	50

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19	Extracellular truncated tau causes early presynaptic dysfunction associated with Alzheimer's disease and other tauopathies. <i>Oncotarget</i> , 2017, 8, 64745-64778.	0.8	49
20	Metal ions affect insulin-degrading enzyme activity. <i>Journal of Inorganic Biochemistry</i> , 2012, 117, 351-358.	1.5	48
21	Zn ²⁺ 's Ability to Alter the Distribution of Cu ²⁺ among the Available Binding Sites of Al ²⁺ (1-16)-Polyethylenglycol-ylated Peptide: Implications in Alzheimer's Disease. <i>Inorganic Chemistry</i> , 2011, 50, 5342-5350.	1.9	45
22	Monomeric A β -amyloid interacts with type-1 insulin-like growth factor receptors to provide energy supply to neurons. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 297.	1.8	44
23	Design and synthesis of new trehalose-conjugated pentapeptides as inhibitors of A β (1-42) fibrillogenesis and toxicity. <i>Journal of Peptide Science</i> , 2009, 15, 220-228.	0.8	43
24	Copper(II) complexes with chicken prion repeats: influence of proline and tyrosine residues on the coordination features. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 463-475.	1.1	42
25	Co-ordinating properties of cyclopeptides. Thermodynamic and spectroscopic study on the formation of copper(II) complexes with cyclo(Gly-His) ₄ and cyclo(Gly-His-Gly) ₂ and their superoxide dismutase-like activity. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 3851-3858.	1.1	39
26	Repurposing of Copper(II)-chelating Drugs for the Treatment of Neurodegenerative Diseases. <i>Current Medicinal Chemistry</i> , 2018, 25, 525-539.	1.2	38
27	Environmental Factors Differently Affect Human and Rat IAPP: Conformational Preferences and Membrane Interactions of IAPP17-29 Peptide Derivatives. <i>Chemistry - A European Journal</i> , 2007, 13, 10204-10215.	1.7	37
28	Membrane Interactions and Conformational Preferences of Human and Avian Prion N-Terminal Tandem Repeats: The Role of Copper(II) Ions, pH, and Membrane Mimicking Environments. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13830-13838.	1.2	37
29	Environmental Effects on a Prion's Helix II Domain: Copper(II) and Membrane Interactions with PrP180-193 and Its Analogues. <i>Chemistry - A European Journal</i> , 2006, 12, 537-547.	1.7	35
30	Copper(II) ions affect the gating dynamics of the 20S proteasome: a molecular and in cell study. <i>Scientific Reports</i> , 2016, 6, 33444.	1.6	34
31	Nickel(II) complexes of the multihistidine peptide fragments of human prion protein. <i>Journal of Inorganic Biochemistry</i> , 2010, 104, 885-891.	1.5	33
32	Thermodynamic and spectroscopic characterization and in vitro O ₂ scavenger activity of copper(II) glycy-L-histidyl-glycyl-L-histidine complexes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 1295.	1.1	30
33	Ac-LPFFD-Th: A Trehalose-Conjugated Peptidomimetic as a Strong Suppressor of Amyloid β Oligomer Formation and Cytotoxicity. <i>ChemBioChem</i> , 2016, 17, 1541-1549.	1.3	28
34	Copper(II) complexes with an avian prion N-terminal region and their potential SOD-like activity. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 195-204.	1.5	27
35	Antioxidant effect of copper(II) on photosensitized lipid peroxidation. <i>Journal of Inorganic Biochemistry</i> , 1995, 57, 115-125.	1.5	26
36	Nickel(ii) and mixed metal complexes of amyloid- β N-terminus. <i>Dalton Transactions</i> , 2010, 39, 7046.	1.6	26

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37	Copper(ii) complexes of rat amylin fragments. Dalton Transactions, 2011, 40, 9711.	1.6	24
38	Molecular and cytotoxic properties of hIAPP17-29 and rIAPP17-29 fragments: A comparative study with the respective full-length parent polypeptides. European Journal of Medicinal Chemistry, 2014, 81, 442-455.	2.6	24
39	Copper(II) complexes with cyclo(L-aspartyl-L-aspartyl) and cyclo(L-glutamyl-L-glutamyl) derivatives and their antioxidant properties. Journal of the Chemical Society Dalton Transactions, 1996, , 3093.	1.1	23
40	A new water soluble host compound possessing two different hydrophobic recognition cavities: Calix[4]arene derivative conjugated with monofunctionalized β -cyclodextrin. Tetrahedron Letters, 1994, 35, 629-632.	0.7	22
41	Mixed metal copper(II)-nickel(II) and copper(II)-zinc(II) complexes of multihistidine peptide fragments of human prion protein. Journal of Inorganic Biochemistry, 2012, 112, 17-24.	1.5	22
42	New comprehensive studies of a gold(III) Dithiocarbamate complex with proven anticancer properties: Aqueous dissolution with cyclodextrins, pharmacokinetics and upstream inhibition of the ubiquitin-proteasome pathway. European Journal of Medicinal Chemistry, 2017, 138, 115-127.	2.6	22
43	Copper(II) binding of prion protein TM s octarepeat model peptides. Inorganica Chimica Acta, 2004, 357, 185-194.	1.2	21
44	Unveiling the Role of Histidine and Tyrosine Residues on the Conformation of the Avian Prion Hexarepeat Domain. Journal of Physical Chemistry B, 2008, 112, 5182-5188.	1.2	21
45	Conformational properties of peptide fragments homologous to the 106-114 and 106-126 residues of the human prion protein: a CD and NMR spectroscopic study. Organic and Biomolecular Chemistry, 2005, 3, 490.	1.5	20
46	Studies of nitric oxide interaction with mono- and dinuclear copper(ii) complexes of prion protein bis-octarepeat fragments. Dalton Transactions, 2008, , 3805.	1.6	20
47	Prion Proteins Leading to Neurodegeneration. Current Alzheimer Research, 2008, 5, 579-590.	0.7	20
48	Metal ion and proton stabilisation of turn motif in the synthetic octapeptide histidyltris(glycylhistidyl)glycine. Journal of the Chemical Society Dalton Transactions, 1997, , 2387-2390.	1.1	19
49	On the Environmental Factors Affecting the Structural and Cytotoxic Properties of IAPP Peptides. Journal of Diabetes Research, 2015, 2015, 1-15.	1.0	19
50	The N-Terminal Peptides of the Three Human Isoforms of the Mitochondrial Voltage-Dependent Anion Channel Have Different Helical Propensities. Biochemistry, 2015, 54, 5646-5656.	1.2	19
51	Solid State and Solution Conformation of 6-[4-[N-tert-ButoxycarbonylN-(N ² -ethyl)propanamide]imidazolyl]-6-deoxycyclomaltoheptaose: Evidence of Self-Inclusion of the Boc Group within the β -Cyclodextrin Cavity. European Journal of Organic Chemistry, 2000, 2000, 1065-1076.	1.2	18
52	Surface immobilization of fibronectin-derived PHSRN peptide on functionalized polymer films - Effects on fibroblast spreading. Journal of Colloid and Interface Science, 2010, 341, 232-239.	5.0	18
53	New Insight in Copper ^{II} Binding to Human Islet Amyloid: The Contribution of Metal ^{II} Complex Speciation To Reveal the Polypeptide Toxicity. Chemistry - A European Journal, 2016, 22, 13287-13300.	1.7	18
54	Tau-peptide fragments and their copper(II) complexes: Effects on Amyloid- β aggregation. Inorganica Chimica Acta, 2018, 472, 82-92.	1.2	17

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55	Copper(II) Coordination Abilities of the Tau Protein's N-Terminus Peptide Fragments: A Combined Potentiometric, Spectroscopic and Mass Spectrometric Study. <i>ChemPlusChem</i> , 2019, 84, 1697-1708.	1.3	16
56	Copper complex species within a fragment of the N-terminal repeat region in opossum PrP protein. <i>Dalton Transactions</i> , 2011, 40, 2441.	1.6	15
57	The effect of point mutations on copper(II) complexes with peptide fragments encompassing the 106-114 region of human prion protein. <i>Monatshefte für Chemie</i> , 2011, 142, 411-419.	0.9	15
58	Affinity, Speciation, and Molecular Features of Copper(II) Complexes with a Prion Tetraoctarepeat Domain in Aqueous Solution: Insights into Old and New Results. <i>Chemistry - A European Journal</i> , 2013, 19, 3751-3761.	1.7	15
59	A Metalloporphyrin-Peptide Conjugate as an Effective Inhibitor of Amyloid- β Peptide Fibrillation and Cytotoxicity. <i>ChemistrySelect</i> , 2017, 2, 9122-9129.	0.7	15
60	Cyclodextrin polymers decorated with RGD peptide as delivery systems for targeted anti-cancer chemotherapy. <i>Investigational New Drugs</i> , 2019, 37, 771-778.	1.2	15
61	Cyclodextrin Polymers as Delivery Systems for Targeted Anti-Cancer Chemotherapy. <i>Molecules</i> , 2021, 26, 6046.	1.7	15
62	Cyclopeptide functionalized β -cyclodextrin. A new class of potentially enzyme mimicking compounds with two recognition sites. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, .	2.0	14
63	The effect of non-coordinating side chains on the metal binding affinities of peptides of histidine. <i>Polyhedron</i> , 2013, 62, 7-17.	1.0	14
64	Neuroprotective effects of the monoamine oxidase inhibitor tranylcypromine and its amide derivatives against $A\beta$ (1-42)-induced toxicity. <i>European Journal of Pharmacology</i> , 2015, 764, 256-263.	1.7	14
65	Carcinine- β -cyclodextrin derivatives as scavenger entities of OH radicals and SOD-like properties of their copper(II) complexes. <i>Inorganica Chimica Acta</i> , 2008, 361, 1705-1714.	1.2	13
66	Copper(ii) and zinc(ii) dependent effects on $A\beta$ 42 aggregation: a CD, Th-T and SFM study. <i>New Journal of Chemistry</i> , 2013, 37, 1206.	1.4	13
67	Crosstalk Between the Octarepeat Domain and the Fifth Binding Site of Prion Protein Driven by the Interaction of Copper(II) with the N-Terminus. <i>Chemistry - A European Journal</i> , 2015, 21, 4071-4084.	1.7	13
68	An NMR and molecular dynamics investigation of the avian prion hexarepeat conformational features in solution. <i>Chemical Physics Letters</i> , 2007, 442, 110-118.	1.2	12
69	Aggregation Properties of the Peptide Fragments Derived from the 17-29 Region of the Human and Rat IAPP: A Comparative Study with Two PEG-Conjugated Variants of the Human Sequence. <i>Journal of Physical Chemistry B</i> , 2010, 114, 705-713.	1.2	12
70	Semax, an ACTH4-10 peptide analog with high affinity for copper(II) ion and protective ability against metal induced cell toxicity. <i>Journal of Inorganic Biochemistry</i> , 2015, 142, 39-46.	1.5	12
71	Novel Peptide-Calix[4]arene Conjugate Inhibits $A\beta$ Aggregation and Rescues Neurons from $A\beta$'s Oligomers Cytotoxicity <i>In Vitro</i> . <i>ACS Chemical Neuroscience</i> , 2021, 12, 1449-1462.	1.7	12
72	Nitrogen oxide interaction with copper complexes formed by small peptides belonging to the prion protein octa-repeat region. <i>Dalton Transactions</i> , 2007, , 1400.	1.6	11

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73	Copper(II) binding to two novel histidine-containing model hexapeptides: Evidence for a metal ion driven turn conformation. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 2012-2019.	1.5	11
74	Synthesis and high field NMR study of a new cyclodipeptide- β -cyclodextrin derivative. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1996, , 1435-1440.	0.9	10
75	Synthesis, Spectroscopic Characterisation, and Metal Ion Interaction of a New α -Helical Peptide. <i>Chemistry - A European Journal</i> , 1998, 4, 1791-1798.	1.7	10
76	Copper(II) coordination properties of the integrin ligand sequence PHSRN and its new β -cyclodextrin conjugates. <i>Journal of Inorganic Biochemistry</i> , 2012, 113, 15-24.	1.5	9
77	Potential therapeutics of Alzheimer's diseases: New insights into the neuroprotective role of trehalose- α -conjugated beta sheet breaker peptides. <i>Peptide Science</i> , 2018, 110, e24083.	1.0	9
78	Ion mobility spectrometry combined with multivariate statistical analysis: revealing the effects of a drug candidate for Alzheimer's disease on A β 1-40 peptide early assembly. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6353-6363.	1.9	9
79	Copper (II) binding properties of an octapeptide fragment from the R3 region of tau protein: A combined potentiometric, spectroscopic and mass spectrometric study. <i>Journal of Inorganic Biochemistry</i> , 2021, 217, 111358.	1.5	9
80	Probing the Residual Structure in Avian Prion Hexarepeats by CD, NMR and MD Techniques. <i>Molecules</i> , 2013, 18, 11467-11484.	1.7	7
81	Copper(II) coordination properties of the A β (1-16) ₂ peptidomimetic: experimental evidence of intermolecular macrochelate complex species in the A β 2 dimer. <i>New Journal of Chemistry</i> , 2016, 40, 10274-10284.	1.4	7
82	Tau/A β chimera peptides: Evaluating the dual function of metal coordination and membrane interaction in one sequence. <i>Journal of Inorganic Biochemistry</i> , 2020, 205, 110996.	1.5	7
83	Co-ordination properties of cyclopeptides. Formation and stability of zinc(II) and copper(II) complexes of histidine-containing cyclopeptides, or imidazole. <i>Journal of the Chemical Society Dalton Transactions</i> , 1994, , 1227.	1.1	6
84	The ability of the NiSOD binding loop to chelate zinc(II): the role of the terminal amino group in the enzymatic functions. <i>Dalton Transactions</i> , 2019, 48, 6217-6227.	1.6	6
85	Tau/A β chimera peptides: A Thioflavin-T and MALDI-TOF study of A β amyloidosis in the presence of Cu(II) or Zn(II) ions and total lipid brain extract (TLBE) vesicles. <i>Chemistry and Physics of Lipids</i> , 2021, 237, 105085.	1.5	6
86	Non-covalent interactions in cyclopeptide proton complex formation in aqueous solution. <i>Thermochimica Acta</i> , 1989, 154, 97-106.	1.2	5
87	Thermodynamic and 1H NMR study of proton complex formation of histidine-containing cyclodipeptides in aqueous solution. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1992, , 371.	0.9	5
88	The transparent implementation of agent communication contexts. <i>Concurrency Computation Practice and Experience</i> , 2006, 18, 387-407.	1.4	5
89	Influence of the N-terminus acetylation of Semax, a synthetic analog of ACTH(4-10), on copper(II) and zinc(II) coordination and biological properties. <i>Journal of Inorganic Biochemistry</i> , 2016, 164, 59-69.	1.5	5
90	Functional Mimics of Cu, Zn- Superoxide Dismutase Enzymes. , 2003, , 41-63.		5

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91	KLVFF oligopeptide-decorated amphiphilic cyclodextrin nanomagnets for selective amyloid beta recognition and fishing. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 814-826.	5.0	5
92	Weak forces in the thermodynamic stereoselectivity of proton and copper(II) complexes with diastereoisomeric dipeptides containing aromatic side chains. <i>Inorganica Chimica Acta</i> , 1995, 228, 119-125.	1.2	4
93	A framework for the design and automated implementation of communication aspects in multi-agent systems. <i>Journal of Network and Computer Applications</i> , 2007, 30, 1136-1152.	5.8	4
94	The interaction of a peptide with a scrambled hydrophobic/hydrophilic sequence (Pro-Asp-Ala-Asp-Ala-His-Ala-His-Ala-His-Ala-Ala-Ala-His-Gly) (PADH) with DPPC model membranes: a DSC study. <i>Thermochimica Acta</i> , 2002, 390, 73-78.	1.2	3
95	Preclinical evidence of enhanced analgesic activity of duloxetine complexed with succinyl- β -cyclodextrin: A comparative study with cyclodextrin complexes. <i>International Journal of Pharmaceutics</i> , 2019, 566, 391-399.	2.6	3
96	Enforcing agent communication laws by means of a reflective framework. , 2004, , .		2
97	Synthesis and Structural Characterisation of Two Novel Diastereoisomeric Naproxen Appended β -Cyclodextrin Derivatives. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2005, 51, 173-180.	1.6	2
98	A thermodynamic and spectroscopic study on the copper(ii) complexes with hexarepeats fragments of the avian prion protein. <i>Journal of Inorganic Biochemistry</i> , 2003, 96, 190.	1.5	1
99	Metal Binding to Prion Protein. , 2003, , 21-39.		1
100	The effect of point mutations on copper(II) complexes with peptide fragments encompassing the 106-114 region of human prion protein. , 2012, , 189-197.		0