Peter Faller

List of Publications by Year
in descending order

148 papers	11,808 citations	26630 56 h-index	29157 104 g-index
162 all docs	162 docs citations	162 times ranked	10133 citing authors

#	Article	IF	Citations
1	Oxidative stress and the amyloid beta peptide in Alzheimerâ€™s disease. Redox Biology, 2018, 14, 450-464.	9.0	1,411
2	Amyloid Î² Protein and Alzheimerâ€™s Disease: When Computer Simulations Complement Experimental Studies. Chemical Reviews, 2015, 115, 3518-3563.	47.7	530
3	Bioinorganic chemistry of copper and zinc ions coordinated to amyloid-Î² peptide. Dalton Transactions, 2009, , 1080-1094.	3.3	464
4	Amyloid Oligomers: A Joint Experimental/Computational Perspective on Alzheimerâ€™s Disease, Parkinsonâ€™s Disease, Type II Diabetes, and Amyotrophic Lateral Sclerosis. Chemical Reviews, 2021, 121, 2545-2647.	47.7	406
5	Binding of transition metal ions to albumin: Sites, affinities and rates. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 5444-5455.	2.4	350
6	Role of Metal Ions in the Self-assembly of the Alzheimerâ€™s Amyloid-Î² Peptide. Inorganic Chemistry, 2013, 52, 12193-12206.	4.0	296
7	Copper and Zinc Binding to Amyloidâ€Î²: Coordination, Dynamics, Aggregation, Reactivity and Metalâ€Ion Transfer. ChemBioChem, 2009, 10, 2837-2845.	2.6	257
8	Redox Chemistry of Copperâ€"Amyloid-Î²: The Generation of Hydroxyl Radical in the Presence of Ascorbate is Linked to Redox-Potentials and Aggregation State. ChemBioChem, 2007, 8, 1317-1325.	2.6	245
9	AÎ²-mediated ROS production by Cu ions: Structural insights, mechanisms and relevance to Alzheimer's disease. Biochimie, 2009, 91, 1212-1217.	2.6	232
10	Mechanism of Cd2+ toxicity: Cd2+ inhibits photoactivation of Photosystem II by competitive binding to the essential Ca2+ site. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1706, 158-164.	1.0	227
11	Activity of Metal-Responsive Transcription Factor 1 by Toxic Heavy Metals and H2O2 In Vitro Is Modulated by Metallothionein. Molecular and Cellular Biology, 2003, 23, 8471-8485.	2.3	224
12	Metal Ions and Intrinsically Disordered Proteins and Peptides: From Cu/Zn Amyloid-Î² to General Principles. Accounts of Chemical Research, 2014, 47, 2252-2259.	15.6	221
13	Why Is Research on Amyloid-Î² Failing to Give New Drugs for Alzheimerâ€™s Disease?. ACS Chemical Neuroscience, 2017, 8, 1435-1437.	3.5	201
14	Carotenoid Oxidation in Photosystem IIâ€. Biochemistry, 1999, 38, 8189-8195.	2.5	183
15	Metal swap between Zn7-metallothionein-3 and amyloid-Î²â€"Cu protects against amyloid-Î² toxicity. Nature Chemical Biology, 2008, 4, 366-372.	8.0	181
16	Iron(II) Binding to Amyloid-Î², the Alzheimerâ€™s Peptide. Inorganic Chemistry, 2011, 50, 9024-9030.	4.0	177
17	Pulse EPR Spectroscopy Reveals the Coordination Sphere of Copper(II) Ions in the 1â€"16 Amyloidâ€Î² Peptide: A Key Role of the First Two Nâ€Terminus Residues. Angewandte Chemie - International Edition, 2009, 48, 9273-9276.	13.8	176
18	Cu(II) Affinity for the Alzheimerâ€™s Peptide: Tyrosine Fluorescence Studies Revisited. Analytical Chemistry, 2013, 85, 1501-1508.	6.5	148

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19	Structural and thermodynamical properties of CuII amyloid-Î²16/28 complexes associated with Alzheimerâ€™s disease. Journal of Biological Inorganic Chemistry, 2006, 11, 1024-1038.	2.6	130
20	Cu and Zn coordination to amyloid peptides: From fascinating chemistry to debated pathological relevance. Coordination Chemistry Reviews, 2018, 371, 38-55.	18.8	120
21	Rapid formation of the stable tyrosyl radical in photosystem II. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 14368-14373.	7.1	118
22	Deprotonation of the Asp1ï£¿Ala2 Peptide Bond Induces Modification of the Dynamic Copper(II) Environment in the Amyloidâ€Î² Peptide near Physiological pH. Angewandte Chemie - International Edition, 2009, 48, 9522-9525.	13.8	118
23	Importance of dynamical processes in the coordination chemistry and redox conversion of copper amyloid-Î² complexes. Journal of Biological Inorganic Chemistry, 2009, 14, 995-1000.	2.6	116
24	Xâ€ray and Solution Structures of Cu^{II}GHK and Cu^{II}DAHK Complexes: Influence on Their Redox Properties. Chemistry - A European Journal, 2011, 17, 10151-10160.	3.3	115
25	Redox Silencing of Copper in Metal-linked Neurodegenerative Disorders. Journal of Biological Chemistry, 2007, 282, 16068-16078.	3.4	113
26	Resolving intermediates in biological proton-coupled electron transfer: A tyrosyl radical prior to proton movement. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8732-8735.	7.1	112
27	Photosystem II: evolutionary perspectives. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 245-253.	4.0	106
28	The Catalytically Active Copperâ€Amyloidâ€Beta State: Coordination Site Responsible for Reactive Oxygen Species Production. Angewandte Chemie - International Edition, 2013, 52, 11110-11113.	13.8	105
29	Identification of key structural features of the elusive Cuâ€“AÎ² complex that generates ROS in Alzheimerâ€™s disease. Chemical Science, 2017, 8, 5107-5118.	7.4	104
30	Zinc Binding to Amyloid-Î²:â€‰ Isothermal Titration Calorimetry and Zn Competition Experiments with Zn Sensors. Biochemistry, 2007, 46, 13658-13666.	2.5	101
31	Nâ€Terminal Cuâ€Binding Motifs (Xxxâ€Zzzâ€His, Xxxâ€His) and Their Derivatives: Chemistry, Biology and Medicinal Applications. Chemistry - A European Journal, 2018, 24, 8029-8041.	3.3	99
32	The stable tyrosyl radical in Photosystem II: why D?. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1655, 222-230.	1.0	98
33	Evidence for a Dynamic Structure of Human Neuronal Growth Inhibitory Factor and for Major Rearrangements of Its Metalâˆ'Thiolate Clustersâ€. Biochemistry, 1999, 38, 10158-10167.	2.5	97
34	Î²-Carotene Redox Reactions in Photosystem II:Â Electron Transfer Pathwayâ€. Biochemistry, 2001, 40, 6431-6440.	2.5	97
35	Thermodynamic study of Cu2+ binding to the DAHK and GHK peptides by isothermal titration calorimetry (ITC) with the weaker competitor glycine. Journal of Biological Inorganic Chemistry, 2012, 17, 37-47.	2.6	97
36	Evidence that the Principal CoII-Binding Site in Human Serum Albumin Is Not at the N-Terminus:â€‰ Implication on the Albumin Cobalt Binding Test for Detecting Myocardial Ischemia. Biochemistry, 2007, 46, 2267-2274.	2.5	95

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37	Free Superoxide is an Intermediate in the Production of H₂O₂ by Copper(I)â€AÎ² Peptide and O₂. Angewandte Chemie - International Edition, 2016, 55, 1085-1089.	13.8	95
38	Amyloid-Beta Peptide Forms Monomeric Complexes With CuII and ZnII Prior to Aggregation. ChemBioChem, 2007, 8, 163-165.	2.6	89
39	A Bioinorganic View of Alzheimerâ€™s Disease: When Misplaced Metal Ions (Re)direct the Electrons to the Wrong Target. Chemistry - A European Journal, 2012, 18, 15910-15920.	3.3	84
40	Copper Transfer from Cuâ€"AÎ² to Human Serum Albumin Inhibits Aggregation, Radical Production and Reduces AÎ² Toxicity. ChemBioChem, 2010, 11, 110-118.	2.6	82
41	Characterization of the ZnII Binding to the Peptide Amyloid-Î²1-16 linked to Alzheimer's Disease. ChemBioChem, 2005, 6, 1663-1671.	2.6	79
42	Neurodegenerative diseases and exposure to the environmental metals Mn, Pb, and Hg. Coordination Chemistry Reviews, 2012, 256, 2147-2163.	18.8	78
43	Methods and techniques to study the bioinorganic chemistry of metalâ€"peptide complexes linked to neurodegenerative diseases. Coordination Chemistry Reviews, 2012, 256, 2381-2396.	18.8	77
44	Tyrosine D Oxidation at Cryogenic Temperature in Photosystem II. Biochemistry, 2002, 41, 12914-12920.	2.5	74
45	Copper(II) Coordination to Amyloidâ€…Î²: Murine versus Human Peptide. Angewandte Chemie - International Edition, 2011, 50, 901-905.	13.8	74
46	Zinc(II) Binding Site to the Amyloid-Î² Peptide: Insights from Spectroscopic Studies with a Wide Series of Modified Peptides. Inorganic Chemistry, 2016, 55, 10499-10509.	4.0	74
47	Distinct Metalâˆ'Thiolate Clusters in the N-Terminal Domain of Neuronal Growth Inhibitory Factor. Biochemistry, 1997, 36, 13341-13348.	2.5	73
48	pH-Dependent Cu(II) Coordination to Amyloid-Î² Peptide: Impact of Sequence Alterations, Including the H6R and D7N Familial Mutations.. Inorganic Chemistry, 2011, 50, 11192-11201.	4.0	73
49	Reevaluation of Copper(I) Affinity for Amyloidâ€Î² Peptides by Competition with Ferrozineâ€"An Unusual Copper(I) Indicator. Chemistry - A European Journal, 2012, 18, 1161-1167.	3.3	73
50	Rapid Exchange of Metal between Zn₇â€"Metallothionein-3 and Amyloid-Î² Peptide Promotes Amyloid-Related Structural Changes. Biochemistry, 2012, 51, 1697-1706.	2.5	68
51	Thioflavin Derivatives as Markers for Amyloidâ€Î² Fibrils: Insights into Structural Features Important for Highâ€Affinity Binding. ChemMedChem, 2008, 3, 63-66.	3.2	63
52	Modeling the Cu⁺ Binding in the 1âˆ'16 Region of the Amyloid-Î² Peptide Involved in Alzheimerâ€™s Disease. Journal of Physical Chemistry B, 2010, 114, 15119-15133.	2.6	63
53	Impact of Cu(II) Binding on Structures and Dynamics of AÎ²₄₂ Monomer and Dimer: Molecular Dynamics Study. ACS Chemical Neuroscience, 2016, 7, 1348-1363.	3.5	62
54	Metalâˆ'Thiolate Clusters in the C-Terminal Domain of Human Neuronal Growth Inhibitory Factor (GIF)â€. Biochemistry, 1998, 37, 14966-14973.	2.5	61

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55	Copper-Targeting Approaches in Alzheimerâ€™s Disease: How To Improve the Fallouts Obtained from in Vitro Studies. Inorganic Chemistry, 2019, 58, 13509-13527.	4.0	61
56	Isolation, primary structures and metal binding properties of neuronal growth inhibitory factor (GIF) from bovine and equine brain. FEBS Letters, 1994, 345, 193-197.	2.8	59
57	Zn impacts Cu coordination to amyloid-Î², the Alzheimer's peptide, but not the ROS production and the associated cell toxicity. Chemical Communications, 2013, 49, 1214.	4.1	58
58	Pt(ii) compounds interplay with Cu(ii) and Zn(ii) coordination to the amyloid-Î² peptide has metal specific consequences on deleterious processes associated to Alzheimer's disease. Chemical Communications, 2013, 49, 2130.	4.1	58
59	Coordination complexes and biomolecules: A wise wedding for catalysis upgrade. Coordination Chemistry Reviews, 2016, 308, 445-459.	18.8	58
60	Chemistry of mammalian metallothioneins and their interaction with amyloidogenic peptides and proteins. Chemical Society Reviews, 2017, 46, 7683-7693.	38.1	57
61	Copper and Heme-Mediated Abeta Toxicity: Redox Chemistry, Abeta Oxidations and Anti-ROS Compounds. Current Topics in Medicinal Chemistry, 2013, 12, 2573-2595.	2.1	56
62	Metal-catalyzed oxidation of AÎ² and the resulting reorganization of Cu binding sites promote ROS production. Metallomics, 2016, 8, 1081-1089.	2.4	55
63	Evidence for Cu(I) Clusters and Zn(II) Clusters in Neuronal Growth-Inhibitory Factor Isolated from Bovine Brain. FEBS Journal, 1996, 238, 698-705.	0.2	52
64	Metallothionein, Copper and Alpha-Synuclein in Alpha-Synucleinopathies. Frontiers in Neuroscience, 2017, 11, 114.	2.8	52
65	Identifying, By First-Principles Simulations, Cu[Amyloid-Î²] Species Making Fenton-Type Reactions in Alzheimerâ€™s Disease. Journal of Physical Chemistry B, 2013, 117, 16455-16467.	2.6	51
66	Structural characterization of Cu(I) and Zn(II) sites in neuronal-growth-inhibitory factor by extended X-ray absorption fine structure (EXAFS). FEBS Journal, 1998, 255, 172-177.	0.2	50
67	Mechanism of zinc(II)-promoted amyloid formation: zinc(II) binding facilitates the transition from the partially Î±-helical conformer to aggregates of amyloid Î² protein(1â€“28). Journal of Biological Inorganic Chemistry, 2009, 14, 449-455.	2.6	47
68	Two Functions, One Molecule: A Metalâ€Binding and a Targeting Moiety to Combat Alzheimer's Disease. ChemBioChem, 2010, 11, 950-953.	2.6	47
69	The role of metal ions in amyloid formation: general principles from model peptides. Metallomics, 2013, 5, 183.	2.4	47
70	The heart of photosynthesis in glorious 3D. Trends in Biochemical Sciences, 2001, 26, 341-344.	7.5	46
71	Extracellular Cu2+ pools and their detection: From current knowledge to next-generation probes. Coordination Chemistry Reviews, 2021, 433, 213727.	18.8	45
72	Ascorbate Oxidation by Cu(Amyloid-Î²) Complexes: Determination of the Intrinsic Rate as a Function of Alterations in the Peptide Sequence Revealing Key Residues for Reactive Oxygen Species Production. Analytical Chemistry, 2018, 90, 5909-5915.	6.5	44

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73	Chlorophyll and Carotenoid Radicals in Photosystem II Studied by Pulsed ENDORâ€. Biochemistry, 2001, 40, 320-326.	2.5	43
74	Zinc(II) binds to the neuroprotective peptide humanin. Journal of Inorganic Biochemistry, 2006, 100, 1672-1678.	3.5	43
75	Neuronal growthâ€inhibitory factor (metallothioneinâ€3): reactivity and structure of metalâ€"thiolate clusters*. FEBS Journal, 2010, 277, 2921-2930.	4.7	42
76	Metal-Binding Properties of the Peptide APP170-188: A Model of the ZnII-Binding Site of Amyloid Precursor Protein (APP). Chemistry - A European Journal, 2005, 11, 903-909.	3.3	41
77	Copper Coordination to Native N-Terminally Modified versus Full-Length Amyloid-Î²: Second-Sphere Effects Determine the Species Present at Physiological pH. Inorganic Chemistry, 2012, 51, 12988-13000.	4.0	40
78	Interference of a new cyclometallated Pt compound with Cu binding to amyloid-Î² peptide. Dalton Transactions, 2012, 41, 6404.	3.3	38
79	Copper(I/II), Î±/Î²â€Synuclein and Amyloidâ€Î²: Menage Ã Trois?. ChemBioChem, 2015, 16, 2319-2328.	2.6	38
80	Reactivity of Cu(<scp>ii</scp>)â€", Zn(<scp>ii</scp>)â€" and Fe(<scp>ii</scp>)â€"thiosemicarbazone complexes with glutathione and metallothionein: from stability to dissociation to transmetallation. Metallomics, 2019, 11, 994-1004.	2.4	38
81	Copper Induces Protein Aggregation, a Toxic Process Compensated by Molecular Chaperones. MBio, 2022, 13, e0325121.	4.1	38
82	Modeling Copper Binding to the Amyloid-Î² Peptide at Different pH: Toward a Molecular Mechanism for Cu Reduction. Journal of Physical Chemistry B, 2012, 116, 11899-11910.	2.6	37
83	The N-terminal 14-mer model peptide of human Ctr1 can collect Cu(<scp>ii</scp>) from albumin. Implications for copper uptake by Ctr1. Metallomics, 2018, 10, 1723-1727.	2.4	37
84	Use of a new water-soluble Zn sensor to determine Zn affinity for the amyloid-Î² peptide and relevant mutants. Metallomics, 2014, 6, 1220.	2.4	36
85	Remote His50 Acts as a Coordination Switch in the High-Affinity N-Terminal Centered Copper(II) Site of Î±-Synuclein. Inorganic Chemistry, 2015, 54, 4744-4751.	4.0	35
86	Copper(<scp>i</scp>) targeting in the Alzheimer's disease context: a first example using the biocompatible PTA ligand. Metallomics, 2015, 7, 1229-1232.	2.4	35
87	Zinc release of Zn7-metallothionein-3 induces fibrillar type amyloid-Î² aggregates. Metallomics, 2010, 2, 741.	2.4	34
88	Copper in Alzheimer disease: too much, too little, or misplaced?. Free Radical Biology and Medicine, 2012, 52, 747-748.	2.9	34
89	How Zn can impede Cu detoxification by chelating agents in Alzheimer's disease: a proof-of-concept study. Dalton Transactions, 2016, 45, 15671-15678.	3.3	33
90	Molecular structure of the NQTrp inhibitor with the Alzheimer AÎ²1-28 monomer. European Journal of Medicinal Chemistry, 2015, 91, 43-50.	5.5	32

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91	Is ascorbate Dr Jekyll or Mr Hyde in the Cu(AÎ²) mediated oxidative stress linked to Alzheimer's disease?. Dalton Transactions, 2016, 45, 12627-12631.	3.3	32
92	New Insights into the Coordination of Cu(II) by the Amyloid-B 16 Peptide from Fourier Transform IR Spectroscopy and Isotopic Labeling. Journal of Physical Chemistry B, 2011, 115, 14812-14821.	2.6	31
93	Copper Imbalance in Alzheimerâ€™s Disease and Its Link with the Amyloid Hypothesis: Towards a Combined Clinical, Chemical, and Genetic Etiology. Journal of Alzheimer's Disease, 2021, 83, 23-41.	2.6	31
94	The Glutathione/Metallothionein System Challenges the Design of Efficient O₂â€Activating Copper Complexes. Angewandte Chemie - International Edition, 2020, 59, 7830-7835.	13.8	30
95	Side-Path Electron Donors: Cytochrome b559, Chlorophyll Z and Î²-Carotene. , 2005, , 347-365.		30
96	Folding of the prion peptide GGGTHSQW around the copper(II) ion: identifying the oxygen donor ligand at neutral pH and probing the proximity of the tryptophan residue to the copper ion. Journal of Biological Inorganic Chemistry, 2008, 13, 1055-1064.	2.6	29
97	Inhibition of Cuâ€Amyloidâ€Î² by using Bifunctional Peptides with Î²â€Sheet Breaker and Chelator Moieties. Chemistry - A European Journal, 2012, 18, 4836-4839.	3.3	29
98	Amyloid fibrils: modulation of formation and structure by copper(ii). New Journal of Chemistry, 2008, 32, 1189.	2.8	26
99	Concept for Simultaneous and Specific in Situ Monitoring of Amyloid Oligomers and Fibrils via FÃ¶rster Resonance Energy Transfer. Analytical Chemistry, 2014, 86, 11877-11882.	6.5	26
100	Aggregationâ€Prone Amyloidâ€Î²â‹…Cu^{II} Species Formed on the Millisecond Timescale under Mildly Acidic Conditions. ChemBioChem, 2015, 16, 1293-1297.	2.6	26
101	High-Field EPR Study of Carotenoidâ€¢+and the Angular Orientation of Chlorophyllzâ€¢+in Photosystem II. Journal of Physical Chemistry B, 2000, 104, 10960-10963.	2.6	25
102	A thienoquinoxaline and a styryl-quinoxaline as new fluorescent probes for amyloid-Î² fibrils. Comptes Rendus Chimie, 2012, 15, 79-85.	0.5	25
103	Cysteine and glutathione trigger the Cuâ€"Zn swap between Cu(<scp>ii</scp>)-amyloid-Î²₄₋₁₆peptide and Zn₇-metallothionein-3. Chemical Communications, 2017, 53, 11634-11637.	4.1	24
104	Switching on Endogenous Metal Binding Proteins in Parkinsonâ€™s Disease. Cells, 2019, 8, 179.	4.1	24
105	Optical and TDPAC spectroscopy of Hg(II)-rubredoxin: model for a mononuclear tetrahedral [Hg(CysS)4]2âˆ’ center. Journal of Biological Inorganic Chemistry, 2000, 5, 393-401.	2.6	23
106	Zinc(II) modulates specifically amyloid formation and structure in model peptides. Journal of Biological Inorganic Chemistry, 2011, 16, 333-340.	2.6	23
107	Dynamics of Zn^{II} Binding as a Key Feature in the Formation of Amyloid Fibrils by AÎ²11-28. Inorganic Chemistry, 2012, 51, 701-708.	4.0	23
108	Cu(II) Binding to the Peptide Ala-His-His, a Chimera of the Canonical Cu(II)-Binding Motifs Xxx-His and Xxx-Zzz-His. Inorganic Chemistry, 2017, 56, 14870-14879.	4.0	23

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109	Metal ions in neurodegenerative diseases. Coordination Chemistry Reviews, 2012, 256, 2127-2128.	18.8	22
110	Low catalytic activity of the Cu(<scp>ii</scp>)-binding motif (Xxx-Zzz-His; ATCUN) in reactive oxygen species production and inhibition by the Cu(<scp>i</scp>)-chelator BCS. Chemical Communications, 2018, 54, 11945-11948.	4.1	22
111	(Bio)chemical Strategies To Modulate Amyloid-Î² Self-Assembly. ACS Chemical Neuroscience, 2019, 10, 3366-3374.	3.5	21
112	Platinoid complexes to target monomeric disordered peptides: a forthcoming solution against amyloid diseases?. Dalton Transactions, 2014, 43, 4233.	3.3	20
113	Combined Experimental and Simulation Studies Suggest a Revised Mode of Action of the Antiâ€Alzheimer Disease Drug NQâ€Trp. Chemistry - A European Journal, 2015, 21, 12657-12666.	3.3	20
114	Cu transfer from amyloid-Î²_{4â€"16} to metallothionein-3: the role of the neurotransmitter glutamate and metallothionein-3 Zn(<scp>ii</scp>)-load states. Chemical Communications, 2018, 54, 12634-12637.	4.1	20
115	Metal-thiolate clusters in neuronal growth inhibitory factor (GIF). Journal of Inorganic Biochemistry, 2000, 79, 7-10.	3.5	19
116	Free Superoxide is an Intermediate in the Production of H₂O₂ by Copper(I)â€AÎ² Peptide and O₂. Angewandte Chemie, 2016, 128, 1097-1101.	2.0	18
117	How trimerization of CTR1 N-terminal model peptides tunes Cu-binding and redox-chemistry. Chemical Communications, 2020, 56, 12194-12197.	4.1	18
118	A terbium(iii) luminescent ATCUN-based peptide sensor for selective and reversible detection of copper(ii) in biological media. Chemical Communications, 2020, 56, 4797-4800.	4.1	18
119	Similarities and differences of copper and zinc cations binding to biologically relevant peptides studied by vibrational spectroscopies. Journal of Biological Inorganic Chemistry, 2017, 22, 581-589.	2.6	16
120	Growth inhibitory factor and zinc affect neural cell cultures in a tissue specific manner. Chemico-Biological Interactions, 1998, 115, 167-174.	4.0	14
121	Measurement of Interpeptidic Cu(II) Exchange Rate Constants by Static Fluorescence Quenching of Tryptophan. Inorganic Chemistry, 2018, 57, 4791-4794.	4.0	14
122	Triggering Cu-coordination change in Cu(<scp>ii</scp>)-Ala-His-His by external ligands. Chemical Communications, 2019, 55, 8110-8113.	4.1	14
123	Reproducibility Problems of Amyloid-Î² Self-Assembly and How to Deal With Them. Frontiers in Chemistry, 2020, 8, 611227.	3.6	13
124	Metal-Binding to Amyloid-Î² Peptide: Coordination, Aggregation, and Reactive Oxygen Species Production. , 2017, , 265-281.		12
125	Metals and Alzheimer's Disease. International Journal of Alzheimer's Disease, 2011, 2011, 1-2.	2.0	10
126	Insights into the Mechanisms of Amyloid Formation of Zn^{II}-Ab11-28: pH-Dependent Zinc Coordination and Overall Charge as Key Parameters for Kinetics and the Structure of Zn^{II}-Ab11-28 Aggregates. Inorganic Chemistry, 2012, 51, 7897-7902.	4.0	10

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127	Reversible turn-on fluorescent Cu(<scp>ii</scp>) sensors: rather dream than reality?. Dalton Transactions, 2019, 48, 14233-14237.	3.3	10
128	Isolation and characterization of a novel monomeric zinc- and heme-containing protein from bovine brain. FEBS Letters, 1996, 395, 33-38.	2.8	9
129	Acrolein and Copper as Competitive Effectors of Î±â€Synuclein. Chemistry - A European Journal, 2020, 26, 1871-1879.	3.3	8
130	A Robust and Efficient Production and Purification Procedure of Recombinant Alzheimers Disease Methionine-Modified Amyloid-Î² Peptides. PLoS ONE, 2016, 11, e0161209.	2.5	8
131	Role of PTA in the prevention of Cu(amyloid-Î²) induced ROS formation and amyloid-Î² oligomerisation in the presence of Zn. Metallomics, 2019, 11, 1154-1161.	2.4	7
132	Copper-binding motifs Xxx-His or Xxx-Zzz-His (ATCUN) linked to an antimicrobial peptide: Cu-binding, antimicrobial activity and ROS production. Journal of Inorganic Biochemistry, 2020, 213, 111255.	3.5	7
133	Detection of two novel lowest lying singlet-triplet transitions of the Cî—,Sî—,C chromophore in L-methionine. Inorganica Chimica Acta, 1998, 272, 150-152.	2.4	5
134	The Na+/K+-ATPase and the amyloid-beta peptide aÎ²1â€“40 control the cellular distribution, abundance and activity of TRPC6 channels. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2957-2965.	4.1	5
135	Metal Binding to AÎ² Peptides Inhibits Interaction with Cytochrome <i>c</i>: Insights from Abiological Constructs. ACS Omega, 2018, 3, 13994-14003.	3.5	5
136	Amyloid-Î²/Drug Interactions from Computer Simulations and Cell-Based Assays. Journal of Alzheimer's Disease, 2018, 64, S659-S672.	2.6	5
137	Cu(II) Binding to the N-Terminal Model Peptide of the Human Ctr2 Transporter at Lysosomal and Extracellular pH. Inorganic Chemistry, 2019, 58, 7488-7498.	4.0	5
138	A Cu-amyloid Î² complex activating Fenton chemistry in Alzheimer's disease: Learning with multiple first-principles simulations. AIP Conference Proceedings, 2014, , .	0.4	4
139	Burning Amyloid-Î² with a Near-Infrared Photosensitizer. CheM, 2018, 4, 663-665.	11.7	4
140	Mutations of Histidineâ€…13 to Arginine and Arginine 5 to Glycine Are Responsible for Different Coordination Sites of Zinc(II) to Human and Murine Peptides. Chemistry - A European Journal, 2018, 24, 14233-14241.	3.3	4
141	The Glutathione/Metallothionein System Challenges the Design of Efficient O₂â€Activating Copper Complexes. Angewandte Chemie, 2020, 132, 7904-7909.	2.0	4
142	A luminescent ATCUN peptide variant with enhanced properties for copper(II) sensing in biological media. Journal of Inorganic Biochemistry, 2021, 221, 111478.	3.5	4
143	Learning chemistry with multiple first-principles simulations. Molecular Simulation, 2015, 41, 780-787.	2.0	3
144	Coordination Studies of the Metal Center of Hemocyanin by ^{199m}Hg Nuclear Quadrupole Interaction. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2002, 57, 623-626.	1.5	2

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145	Intense Raman bands and low luminescence of thin films of heme proteins on silica. Chemical Physics Letters, 2009, 478, 66-69.	2.6	2
146	Nanoscale needle shaped histidine and narrow vibrational Raman bands using visible excitation. Chemical Physics Letters, 2007, 439, 360-363.	2.6	1
147	Coordination of Metal Ions to Î²-Amyloid Peptide: Impact on Alzheimerâ€™s Disease. Modecular Medicine and Medicinal, 2013, , 127-155.	0.4	0
148	Frontispiece: N-Terminal Cu-Binding Motifs (Xxx-Zzz-His, Xxx-His) and Their Derivatives: Chemistry, Biology and Medicinal Applications. Chemistry - A European Journal, 2018, 24, .	3.3	0