

# Asuncion Carmona

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,743  
citations

331538

21  
h-index

315616

38  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2306  
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper pathology in vulnerable brain regions in Parkinson's disease. <i>Neurobiology of Aging</i> , 2014, 35, 858-866.	1.5	188
2	Iron Storage within Dopamine Neurovesicles Revealed by Chemical Nano-Imaging. <i>PLoS ONE</i> , 2007, 2, e925.	1.1	159
3	Bio-metals imaging and speciation in cells using proton and synchrotron radiation X-ray microspectroscopy. <i>Journal of the Royal Society Interface</i> , 2009, 6, S649-58.	1.5	134
4	Combined use of hard X-ray phase contrast imaging and X-ray fluorescence microscopy for sub-cellular metal quantification. <i>Journal of Structural Biology</i> , 2012, 177, 239-247.	1.3	95
5	Low-solubility particles and a Trojan-horse type mechanism of toxicity: the case of cobalt oxide on human lung cells. <i>Particle and Fibre Toxicology</i> , 2014, 11, 14.	2.8	87
6	Manganese Accumulates within Golgi Apparatus in Dopaminergic Cells as Revealed by Synchrotron X-ray Fluorescence Nanoimaging. <i>ACS Chemical Neuroscience</i> , 2010, 1, 194-203.	1.7	78
7	Amyotrophic lateral sclerosis-like superoxide dismutase 1 proteinopathy is associated with neuronal loss in Parkinson's disease brain. <i>Acta Neuropathologica</i> , 2017, 134, 113-127.	3.9	78
8	Quantitative micro-analysis of metal ions in subcellular compartments of cultured dopaminergic cells by combination of three ion beam techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1585-1594.	1.9	76
9	Evaluation of sample preparation methods for single cell quantitative elemental imaging using proton or synchrotron radiation focused beams. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 2525-2532.	1.6	73
10	Subcellular Speciation Analysis of Trace Element Oxidation States Using Synchrotron Radiation Micro-X-ray Absorption Near-Edge Structure. <i>Analytical Chemistry</i> , 2007, 79, 7353-7359.	3.2	72
11	X-ray absorption spectroscopy of biological samples. A tutorial. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 2054.	1.6	67
12	Nano-imaging of trace metals by synchrotron X-ray fluorescence into dopaminergic single cells and neurite-like processes. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1083.	1.6	64
13	Î±-Synuclein Over-Expression Induces Increased Iron Accumulation and Redistribution in Iron-Exposed Neurons. <i>Molecular Neurobiology</i> , 2016, 53, 1925-1934.	1.9	60
14	Environmental manganese compounds accumulate as Mn(II) within the Golgi apparatus of dopamine cells: relationship between speciation, subcellular distribution, and cytotoxicity. <i>Metallomics</i> , 2014, 6, 822.	1.0	51
15	Advances in element speciation analysis of biomedical samples using synchrotron-based techniques. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 104, 22-41.	5.8	51
16	Correlative organelle fluorescence microscopy and synchrotron X-ray chemical element imaging in single cells. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6979-6991.	1.9	47
17	SLC30A10 Mutation Involved in Parkinsonism Results in Manganese Accumulation within Nanovesicles of the Golgi Apparatus. <i>ACS Chemical Neuroscience</i> , 2019, 10, 599-609.	1.7	38
18	Zinc and Copper Effects on Stability of Tubulin and Actin Networks in Dendrites and Spines of Hippocampal Neurons. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1490-1499.	1.7	33

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19	Cobalt chloride speciation, mechanisms of cytotoxicity on human pulmonary cells, and synergistic toxicity with zinc. <i>Metallomics</i> , 2013, 5, 133.	1.0	30
20	Manganese levels in infant formula and young child nutritional beverages in the United States and France: Comparison to breast milk and regulations. <i>PLoS ONE</i> , 2019, 14, e0223636.	1.1	29
21	Multimodal analysis of metals in copper-zinc superoxide dismutase isoforms separated on electrophoresis gels. <i>Biochimie</i> , 2009, 91, 1324-1327.	1.3	24
22	Manganese Mapping Using a Fluorescent Mn <sup>2+</sup> Sensor and Nanosynchrotron X-ray Fluorescence Reveals the Role of the Golgi Apparatus as a Manganese Storage Site. <i>Inorganic Chemistry</i> , 2019, 58, 13724-13732.	1.9	23
23	Molecular Mechanisms of Environmental Metal Neurotoxicity: A Focus on the Interactions of Metals with Synapse Structure and Function. <i>Toxics</i> , 2021, 9, 198.	1.6	23
24	Uranium exposure of human dopaminergic cells results in low cytotoxicity, accumulation within sub-cytoplasmic regions, and down regulation of MAO-B. <i>NeuroToxicology</i> , 2018, 68, 177-188.	1.4	22
25	Correlating STED and synchrotron XRF nano-imaging unveils cosegregation of metals and cytoskeleton proteins in dendrites. <i>ELife</i> , 2020, 9, .	2.8	18
26	Direct speciation of metals in copper-zinc superoxide dismutase isoforms on electrophoresis gels using X-ray absorption near edge structure. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1117.	1.6	15
27	Mapping Chemical Elements and Iron Oxidation States in the Substantia Nigra of 6-Hydroxydopamine Lesioned Rats Using Correlative Immunohistochemistry With Proton and Synchrotron Micro-Analysis. <i>Frontiers in Neuroscience</i> , 2019, 13, 1014.	1.4	15
28	Emerging chemical tools and techniques for tracking biological manganese. <i>Dalton Transactions</i> , 2019, 48, 7047-7061.	1.6	14
29	Estimating daily intakes of manganese due to breast milk, infant formulas, or young child nutritional beverages in the United States and France: Comparison to sufficiency and toxicity thresholds. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 62, 126607.	1.5	13
30	Reduced net charge and heterogeneity of p<i>I</i> isoforms in familial amyotrophic lateral sclerosis mutants of copper/zinc superoxide dismutase. <i>Electrophoresis</i> , 2015, 36, 2482-2488.	1.3	11
31	Analysis of Platinum and Trace Metals in Treated Glioma Rat Cells by X-Ray Fluorescence Emission. <i>Biological Trace Element Research</i> , 2015, 163, 177-183.	1.9	10
32	Heterogeneous intratumoral distribution of gadolinium nanoparticles within U87 human glioblastoma xenografts unveiled by micro-PIXE imaging. <i>Analytical Biochemistry</i> , 2017, 523, 50-57.	1.1	10
33	How much manganese is safe for infants? A review of the scientific basis of intake guidelines and regulations relevant to the manganese content of infant formulas. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 65, 126710.	1.5	9
34	Coupling of native IEF and extended X-ray absorption fine structure to characterize zinc-binding sites from pI isoforms of SOD1 and A4V pathogenic mutant. <i>Electrophoresis</i> , 2012, 33, 1276-1281.	1.3	7
35	Native Separation and Metallation Analysis of SOD1 Protein from the Human Central Nervous System: a Methodological Workflow. <i>Analytical Chemistry</i> , 2021, 93, 11108-11115.	3.2	6
36	Neurotoxicity of Environmental Metal Toxicants: Special Issue. <i>Toxics</i> , 2022, 10, 382.	1.6	5

#	ARTICLE	IF	CITATIONS
37	Cytoplasmic aggregation of uranium in human dopaminergic cells after continuous exposure to soluble uranyl at non-cytotoxic concentrations. <i>NeuroToxicology</i> , 2021, 82, 35-44.	1.4	3
38	Imaging the structural organization of chemical elements in growth cones of developing hippocampal neurons. <i>Metallomics</i> , 2022, 14, .	1.0	3
39	Particle Induced X-ray Emission Imaging of Gadolinium Distribution into Xenograft U87 Human Glioblastoma after AGuiX Nanoparticles Injection. <i>Microscopy and Microanalysis</i> , 2016, 22, 1094-1095.	0.2	0
40	Correlative Chemical Element Imaging in Cells Using Fluorescence Microscopy and Synchrotron X-ray Fluorescence. <i>Microscopy and Microanalysis</i> , 2016, 22, 210-211.	0.2	0