

# Claudia Cosio

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,589  
citations

172457  
29  
h-index

182427  
51  
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53  
all docs

53  
docs citations

53  
times ranked

4467  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of carbamazepine in aquatic biota. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 209-220.	3.5	4
2	Metabolic, cellular and defense responses to single and co-exposure to carbamazepine and methylmercury in <i>Dreissena polymorpha</i> . <i>Environmental Pollution</i> , 2022, 300, 118933.	7.5	5
3	Subcellular Distribution of Dietary Methyl-Mercury in <i>Gammarus fossarum</i> and Its Impact on the Amphipod Proteome. <i>Environmental Science &amp; Technology</i> , 2021, 55, 10514-10523.	10.0	4
4	New Insights into Impacts of Toxic Metals in Aquatic Environments. <i>Environments - MDPI</i> , 2021, 8, 1.	3.3	6
5	Effects of cadmium, inorganic mercury and methyl-mercury on the physiology and metabolomic profiles of shoots of the macrophyte <i>Elodea nuttallii</i> . <i>Environmental Pollution</i> , 2020, 257, 113557.	7.5	31
6	Biotic formation of methylmercury: A bio-physico-chemical conundrum. <i>Limnology and Oceanography</i> , 2020, 65, 1010-1027.	3.1	98
7	Mercury cycling in freshwater systems - An updated conceptual model. <i>Science of the Total Environment</i> , 2020, 745, 140906.	8.0	58
8	Special Issue on Bioconversion, Bioaccumulation and Toxicity of Mercury in a Changing World. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6548.	2.5	3
9	Inorganic Mercury and Methyl-Mercury Uptake and Effects in the Aquatic Plant <i>Elodea nuttallii</i> : A Review of Multi-Omic Data in the Field and in Controlled Conditions. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1817.	2.5	5
10	New Insights into Cellular Impacts of Metals in Aquatic Animals. <i>Environments - MDPI</i> , 2020, 7, 46.	3.3	14
11	Towards early-warning gene signature of <i>Chlamydomonas reinhardtii</i> exposed to Hg-containing complex media. <i>Aquatic Toxicology</i> , 2019, 214, 105259.	4.0	5
12	Comparative study of Cu uptake and early transcriptome responses in the green microalga <i>Chlamydomonas reinhardtii</i> and the macrophyte <i>Elodea nuttallii</i> . <i>Environmental Pollution</i> , 2019, 250, 331-337.	7.5	19
13	Effects of two-hour exposure to environmental and high concentrations of methylmercury on the transcriptome of the macrophyte <i>Elodea nuttallii</i> . <i>Aquatic Toxicology</i> , 2018, 194, 103-111.	4.0	10
14	<i>Geobacteraceae</i> are important members of mercury-methylating microbial communities of sediments impacted by waste water releases. <i>ISME Journal</i> , 2018, 12, 802-812.	9.8	96
15	Molecular Effects of Inorganic and Methyl Mercury in Aquatic Primary Producers: Comparing Impact to A Macrophyte and A Green Microalga in Controlled Conditions. <i>Geosciences (Switzerland)</i> , 2018, 8, 393.	2.2	18
16	Molecular Effects, Speciation, and Competition of Inorganic and Methyl Mercury in the Aquatic Plant <i>Elodea nuttallii</i> . <i>Environmental Science &amp; Technology</i> , 2018, 52, 8876-8884.	10.0	19
17	Mercury speciation in <i>Pinus nigra</i> barks from Monte Amiata (Italy): An X-ray absorption spectroscopy study. <i>Environmental Pollution</i> , 2017, 227, 83-88.	7.5	34
18	Trophic fate of inorganic and methyl-mercury in a macrophyte-chironomid food chain. <i>Journal of Hazardous Materials</i> , 2017, 338, 140-147.	12.4	17

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19	Transcriptomic approach for assessment of the impact on microalga and macrophyte of in-situ exposure in river sites contaminated by chlor-alkali plant effluents. <i>Water Research</i> , 2017, 121, 86-94.	11.3	20
20	Cellular toxicity pathways of inorganic and methyl mercury in the green microalga <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , 2017, 7, 8034.	3.3	59
21	The class <i>III</i> peroxidase <i>PRX17</i> is a direct target of the <i>MADS</i> transcription factor <i>AGAMOUS</i> - <i>LIKE15</i> ( <i>AGL15</i> ) and participates in lignified tissue formation. <i>New Phytologist</i> , 2017, 213, 250-263.	7.3	88
22	Influence of chemical speciation and biofilm composition on mercury accumulation by freshwater biofilms. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 38-49.	3.5	16
23	Long-Term Acclimation to Iron Limitation Reveals New Insights in Metabolism Regulation of <i>Synechococcus</i> sp. PCC7002. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	12
24	Role of cellular compartmentalization in the trophic transfer of mercury species in a freshwater plant-crustacean food chain. <i>Journal of Hazardous Materials</i> , 2016, 320, 401-407.	12.4	13
25	Role of Settling Particles on Mercury Methylation in the Oxidic Water Column of Freshwater Systems. <i>Environmental Science &amp; Technology</i> , 2016, 50, 11672-11679.	10.0	99
26	<i>Elodea nuttallii</i> exposure to mercury exposure under enhanced ultraviolet radiation: Effects on bioaccumulation, transcriptome, pigment content and oxidative stress. <i>Aquatic Toxicology</i> , 2016, 180, 218-226.	4.0	15
27	Environmental quality assessment of reservoirs impacted by Hg from chlor-alkali technologies: case study of a recovery. <i>Environmental Science and Pollution Research</i> , 2016, 23, 22542-22553.	5.3	13
28	Transcriptomic and Physiological Responses of the Green Microalga <i>Chlamydomonas reinhardtii</i> during Short-Term Exposure to Subnanomolar Methylmercury Concentrations. <i>Environmental Science &amp; Technology</i> , 2016, 50, 7126-7134.	10.0	36
29	Dendrochemical assessment of mercury releases from a pond and dredged-sediment landfill impacted by a chlor-alkali plant. <i>Environmental Research</i> , 2016, 148, 122-126.	7.5	33
30	Persistent Hg contamination and occurrence of Hg-methylating transcript ( <i>hgcA</i> ) downstream of a chlor-alkali plant in the Olt River (Romania). <i>Environmental Science and Pollution Research</i> , 2016, 23, 10529-10541.	5.3	69
31	Effects of copper-oxide nanoparticles, dissolved copper and ultraviolet radiation on copper bioaccumulation, photosynthesis and oxidative stress in the aquatic macrophyte <i>Elodea nuttallii</i> . <i>Chemosphere</i> , 2015, 128, 56-61.	8.2	76
32	Human exposure to mercury in artisanal small-scale gold mining areas of Kedougou region, Senegal, as a function of occupational activity and fish consumption. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7101-7111.	5.3	45
33	Effects of macrophytes on the fate of mercury in aquatic systems. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 1225-1237.	4.3	47
34	Extremely elevated methyl mercury levels in water, sediment and organisms in a Romanian reservoir affected by release of mercury from a chlor-alkali plant. <i>Water Research</i> , 2014, 49, 391-405.	11.3	93
35	Antagonistic and synergistic effects of light irradiation on the effects of copper on <i>Chlamydomonas reinhardtii</i> . <i>Aquatic Toxicology</i> , 2014, 155, 275-282.	4.0	33
36	Towards Mechanistic Understanding of Mercury Availability and Toxicity to Aquatic Primary Producers. <i>Chimia</i> , 2014, 68, 799.	0.6	20

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37	Physiological and proteomic changes suggest an important role of cell walls in the high tolerance to metals of <i>Elodea nuttallii</i> . <i>Journal of Hazardous Materials</i> , 2013, 263, 575-583.	12.4	37
38	Analysis of the <i>Elodea nuttallii</i> Transcriptome in Response to Mercury and Cadmium Pollution: Development of Sensitive Tools for Rapid Ecotoxicological Testing. <i>Environmental Science &amp; Technology</i> , 2013, 47, 8825-8834.	10.0	41
39	Mercury bioaccumulation in the aquatic plant <i>Elodea nuttallii</i> in the field and in microcosm: Accumulation in shoots from the water might involve copper transporters. <i>Chemosphere</i> , 2013, 90, 595-602.	8.2	59
40	Effect of <i>Elodea nuttallii</i> Roots on Bacterial Communities and MMHg Proportion in a Hg Polluted Sediment. <i>PLoS ONE</i> , 2012, 7, e45565.	2.5	23
41	Transcriptome analysis of various flower and silique development stages indicates a set of class III peroxidase genes potentially involved in pod shattering in <i>Arabidopsis thaliana</i> . <i>BMC Genomics</i> , 2010, 11, 528.	2.8	51
42	Specific functions of individual class III peroxidase genes. <i>Journal of Experimental Botany</i> , 2009, 60, 391-408.	4.8	354
43	An anionic class III peroxidase from zucchini may regulate hypocotyl elongation through its auxin oxidase activity. <i>Planta</i> , 2009, 229, 823-836.	3.2	48
44	PeroxiBase: The peroxidase database. <i>Phytochemistry</i> , 2007, 68, 1605-1611.	2.9	187
45	PeroxiBase: A class III plant peroxidase database. <i>Phytochemistry</i> , 2006, 67, 534-539.	2.9	68
46	Localization and effects of cadmium in leaves of a cadmium-tolerant willow ( <i>Salix viminalis</i> L.). <i>Environmental and Experimental Botany</i> , 2006, 58, 25-40.	4.2	146
47	Localization and effects of cadmium in leaves of a cadmium-tolerant willow ( <i>Salix viminalis</i> L.). <i>Environmental and Experimental Botany</i> , 2006, 58, 64-74.	4.2	98
48	Cadmium tolerance and hyperaccumulation by <i>Thlaspi caerulescens</i> populations grown in hydroponics are related to plant uptake characteristics in the field. <i>Functional Plant Biology</i> , 2006, 33, 673.	2.1	18
49	Peroxidases have more functions than a Swiss army knife. <i>Plant Cell Reports</i> , 2005, 24, 255-265.	5.6	830
50	Distribution of cadmium in leaves of <i>Thlaspi caerulescens</i> . <i>Journal of Experimental Botany</i> , 2005, 56, 765-775.	4.8	176
51	Hyperaccumulation of Cadmium and Zinc in <i>Thlaspi caerulescens</i> and <i>Arabidopsis halleri</i> at the Leaf Cellular Level. <i>Plant Physiology</i> , 2004, 134, 716-725.	4.8	218