

# Maria Elena Crespo-Lopez

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

3,460  
citations

126708

33  
h-index

168136

53  
g-index

109  
all docs

109  
docs citations

109  
times ranked

3622  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasticity of microglia. <i>Biological Reviews</i> , 2022, 97, 217-250.	4.7	44
2	DNA Damage and Proteomic Profile Changes in Rat Salivary Glands After Chronic Exposure to Inorganic Mercury. <i>Biological Trace Element Research</i> , 2022, , 1.	1.9	1
3	A systematic review of the mental health risks and resilience among pollution-exposed adolescents. <i>Journal of Psychiatric Research</i> , 2022, 146, 55-66.	1.5	7
4	Methylmercury exposure during prenatal and postnatal neurodevelopment promotes oxidative stress associated with motor and cognitive damages in rats: an environmental-experimental toxicology study. <i>Toxicology Reports</i> , 2022, 9, 563-574.	1.6	7
5	Salivary Glands after Prolonged Aluminum Exposure: Proteomic Approach Underlying Biochemical and Morphological Impairments in Rats. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2251.	1.8	5
6	Methylmercury Causes Neurodegeneration and Downregulation of Myelin Basic Protein in the Spinal Cord of Offspring Rats after Maternal Exposure. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3777.	1.8	3
7	From Molecules to Behavior in Long-Term Inorganic Mercury Intoxication: Unraveling Proteomic Features in Cerebellar Neurodegeneration of Rats. <i>International Journal of Molecular Sciences</i> , 2022, 23, 111.	1.8	13
8	Mercury neurotoxicity in gold miners. <i>Advances in Neurotoxicology</i> , 2022, , 283-314.	0.7	8
9	The GABAergic System and Endocannabinoids in Epilepsy and Seizures: What Can We Expect from Plant Oils?. <i>Molecules</i> , 2022, 27, 3595.	1.7	4
10	Translational relevance for in vitro/in vivo models: A novel approach to mercury dosing. <i>Food and Chemical Toxicology</i> , 2022, 166, 113210.	1.8	7
11	Oral methylmercury intoxication aggravates cardiovascular risk factors and accelerates atherosclerosis lesion development in ApoE knockout and C57BL/6 mice. <i>Toxicological Research</i> , 2021, 37, 311-321.	1.1	6
12	Evaluation of Cerebellar Function and Integrity of Adult Rats After Long-Term Exposure to Aluminum at Equivalent Urban Region Consumption Concentrations. <i>Biological Trace Element Research</i> , 2021, 199, 1425-1436.	1.9	4
13	Mercury: What can we learn from the Amazon?. <i>Environment International</i> , 2021, 146, 106223.	4.8	95
14	Fluoride exposure during pregnancy and lactation triggers oxidative stress and molecular changes in hippocampus of offspring rats. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111437.	2.9	37
15	Effects of lead exposure on salivary glands of rats: insights into the oxidative biochemistry and glandular morphology. <i>Environmental Science and Pollution Research</i> , 2021, 28, 10918-10930.	2.7	10
16	Human neurotoxicity of mercury in the Amazon: A scoping review with insights and critical considerations. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111686.	2.9	59
17	Effects of pollution on adolescent mental health: a systematic review protocol. <i>Systematic Reviews</i> , 2021, 10, 85.	2.5	2
18	Eating in the Amazon: Nutritional Status of the Riverine Populations and Possible Nudge Interventions. <i>Foods</i> , 2021, 10, 1015.	1.9	14

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19	Revisiting Astrocytic Roles in Methylmercury Intoxication. <i>Molecular Neurobiology</i> , 2021, 58, 4293-4308.	1.9	21
20	Preventing Chagas disease: A new RT-qPCR method for rapid and specific quantification of viable <i>Trypanosoma cruzi</i> for food safety. <i>Food Research International</i> , 2021, 144, 110368.	2.9	3
21	Metabolic and oxidative impairments in human salivary gland cells line exposed to MeHg. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 66, 126747.	1.5	5
22	Living in the Southern Hemisphere: Metabolic Syndrome and Its Components in Amazonian Riverine Populations. <i>Journal of Clinical Medicine</i> , 2021, 10, 3630.	1.0	8
23	Salivary biomarkers and neuropsychological outcomes: A non-invasive approach to investigate pollutants-associated neurotoxicity and its effects on cognition in vulnerable populations. <i>Environmental Research</i> , 2021, 200, 111432.	3.7	9
24	Salivary parameters alterations after early exposure to environmental methylmercury: A preclinical study in offspring rats. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 68, 126820.	1.5	5
25	Contributing to Understand the Crosstalk between Brain and Periphery in Methylmercury Intoxication: Neurotoxicity and Extracellular Vesicles. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10855.	1.8	5
26	Lead-Induced Motor Dysfunction Is Associated with Oxidative Stress, Proteome Modulation, and Neurodegeneration in Motor Cortex of Rats. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-10.	1.9	12
27	Methylmercury chronic exposure affects the expression of DNA single-strand break repair genes, induces oxidative stress, and chromosomal abnormalities in young dyslipidemic APOE knockout mice. <i>Toxicology</i> , 2021, 464, 152992.	2.0	7
28	Maternal methylmercury exposure changes the proteomic profile of the offspring's salivary glands: Prospects on translational toxicology. <i>PLoS ONE</i> , 2021, 16, e0258969.	1.1	1
29	Preclinical evidences of aluminum-induced neurotoxicity in hippocampus and pre-frontal cortex of rats exposed to low doses. <i>Ecotoxicology and Environmental Safety</i> , 2020, 206, 111139.	2.9	22
30	Effects of Fluoride Long-Term Exposure over the Cerebellum: Global Proteomic Profile, Oxidative Biochemistry, Cell Density, and Motor Behavior Evaluation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7297.	1.8	23
31	Chronic methylmercury exposure causes spinal cord impairment: Proteomic modulation and oxidative stress. <i>Food and Chemical Toxicology</i> , 2020, 146, 111772.	1.8	9
32	Astroglia-specific contributions to the regulation of synapses, cognition and behaviour. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 118, 331-357.	2.9	70
33	Pollutants and nutrition: Are methylmercury effects on blood pressure and lipoprotein profile comparable to high-fat diet in mice?. <i>Ecotoxicology and Environmental Safety</i> , 2020, 204, 111036.	2.9	8
34	Methylmercury-Induced Toxicopathologic Findings in Salivary Glands of Offspring Rats After Gestational and Lactational Exposure. <i>Biological Trace Element Research</i> , 2020, 199, 2983-2991.	1.9	11
35	Long-term exposure to lead reduces antioxidant capacity and triggers motor neurons degeneration and demyelination in spinal cord of adult rats. <i>Ecotoxicology and Environmental Safety</i> , 2020, 194, 110358.	2.9	9
36	Fatty Acid Amides Synthesized from Andiroba Oil ( <i>Carapa guianensis</i> Aublet.) Exhibit Anticonvulsant Action with Modulation on GABA-A Receptor in Mice: A Putative Therapeutic Option. <i>Pharmaceuticals</i> , 2020, 13, 43.	1.7	6

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37	Spinal cord neurodegeneration after inorganic mercury long-term exposure in adult rats: Ultrastructural, proteomic and biochemical damages associated with reduced neuronal density. <i>Ecotoxicology and Environmental Safety</i> , 2020, 191, 110159.	2.9	23
38	Obesity: More Than an Inflammatory, an Infectious Disease?. <i>Frontiers in Immunology</i> , 2020, 10, 3092.	2.2	21
39	Long-Term Lead Exposure Since Adolescence Causes Proteomic and Morphological Alterations in the Cerebellum Associated with Motor Deficits in Adult Rats. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3571.	1.8	17
40	Antidepressant and Antiaging Effects of AÅŠaÅŠ-( <i>Euterpe oleracea</i> Mart.) in Mice. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-16.	1.9	28
41	Towards Therapeutic Alternatives for Mercury Neurotoxicity in the Amazon: Unraveling the Pre-Clinical Effects of the Superfruit AÅŠaÅŠ-( <i>Euterpe oleracea</i> , Mart.) as Juice for Human Consumption. <i>Nutrients</i> , 2019, 11, 2585.	1.7	24
42	What Do Microglia Really Do in Healthy Adult Brain?. <i>Cells</i> , 2019, 8, 1293.	1.8	91
43	Proteomic approach underlying the hippocampal neurodegeneration caused by low doses of methylmercury after long-term exposure in adult rats. <i>Metallomics</i> , 2019, 11, 390-403.	1.0	49
44	Special Drug on Adolescent Rats: Oxidative Damage and Neurobehavioral Impairments. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-10.	1.9	15
45	Flavonoids from the Amazon plant <i>Brosimum acutifolium</i> induce C6 glioma cell line apoptosis by disrupting mitochondrial membrane potential and reducing AKT phosphorylation. <i>Biomedicine and Pharmacotherapy</i> , 2019, 113, 108728.	2.5	12
46	Methylmercury intoxication and cortical ischemia: Pre-clinical study of their comorbidity. <i>Ecotoxicology and Environmental Safety</i> , 2019, 174, 557-565.	2.9	18
47	Adult Hippocampal Neurogenesis in Different Taxonomic Groups: Possible Functional Similarities and Striking Controversies. <i>Cells</i> , 2019, 8, 125.	1.8	49
48	Low doses of methylmercury exposure during adulthood in rats display oxidative stress, neurodegeneration in the motor cortex and lead to impairment of motor skills. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 51, 19-27.	1.5	51
49	Association between methylmercury environmental exposure and neurological disorders: A systematic review. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 52, 100-110.	1.5	12
50	Apolipoprotein E, periodontal disease and the risk for atherosclerosis: a review. <i>Archives of Oral Biology</i> , 2019, 98, 204-212.	0.8	18
51	Selective effects of <i>Euterpe oleracea</i> (aÅŠai) on <i>Leishmania (Leishmania) amazonensis</i> and <i>Leishmania infantum</i> . <i>Biomedicine and Pharmacotherapy</i> , 2018, 97, 1613-1621.	2.5	19
52	Low doses of methylmercury intoxication solely or associated to ethanol binge drinking induce psychiatric-like disorders in adolescent female rats. <i>Environmental Toxicology and Pharmacology</i> , 2018, 60, 184-194.	2.0	22
53	Large-scale projects in the amazon and human exposure to mercury: The case-study of the TucuruÅŠ-Dam. <i>Ecotoxicology and Environmental Safety</i> , 2018, 147, 299-305.	2.9	67
54	Repeated Cycles of Binge-Like Ethanol Intake in Adolescent Female Rats Induce Motor Function Impairment and Oxidative Damage in Motor Cortex and Liver, but Not in Blood. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-14.	1.9	26

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55	In the Heart of the Amazon: Noncommunicable Diseases and Apolipoprotein E4 Genotype in the Riverine Population. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1957.	1.2	17
56	Exposure to Inorganic Mercury Causes Oxidative Stress, Cell Death, and Functional Deficits in the Motor Cortex. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 125.	1.4	92
57	Unravelling motor behaviour hallmarks in intoxicated adolescents: methylmercury subtoxic-dose exposure and binge ethanol intake paradigm in rats. <i>Environmental Science and Pollution Research</i> , 2018, 25, 21937-21948.	2.7	15
58	Hippocampal Dysfunction Provoked by Mercury Chloride Exposure: Evaluation of Cognitive Impairment, Oxidative Stress, Tissue Injury and Nature of Cell Death. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-11.	1.9	49
59	Role for apolipoprotein E in neurodegeneration and mercury intoxication. <i>Frontiers in Bioscience - Elite</i> , 2018, 10, 229-241.	0.9	23
60	Clarified <i>Euterpe oleracea</i> Juice as an Anticonvulsant Agent: In Vitro Mechanistic Study of GABAergic Targets. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-6.	1.9	17
61	Genetic Susceptibility to Neurodegeneration in Amazon: Apolipoprotein E Genotyping in Vulnerable Populations Exposed to Mercury. <i>Frontiers in Genetics</i> , 2018, 9, 285.	1.1	36
62	Assessing mercury intoxication in isolated/remote populations: Increased S100B mRNA in blood in exposed riverine inhabitants of the Amazon. <i>NeuroToxicology</i> , 2018, 68, 151-158.	1.4	29
63	<i>Mauritia flexuosa</i> L. protects against deficits in memory acquisition and oxidative stress in rat hippocampus induced by methylmercury exposure. <i>Nutritional Neuroscience</i> , 2017, 20, 297-304.	1.5	20
64	Chronic intoxication by methylmercury leads to oxidative damage and cell death in salivary glands of rats. <i>Metallomics</i> , 2017, 9, 1778-1785.	1.0	17
65	Previous physical exercise alters the hepatic profile of oxidative-inflammatory status and limits the secondary brain damage induced by severe traumatic brain injury in rats. <i>Journal of Physiology</i> , 2017, 595, 6023-6044.	1.3	29
66	Chronic exposure to inorganic mercury induces biochemical and morphological changes in the salivary glands of rats. <i>Metallomics</i> , 2017, 9, 1271-1278.	1.0	21
67	Oxidative Biochemistry Disbalance and Changes on Proteomic Profile in Salivary Glands of Rats Induced by Chronic Exposure to Methylmercury. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-15.	1.9	36
68	Binge Drinking of Ethanol during Adolescence Induces Oxidative Damage and Morphological Changes in Salivary Glands of Female Rats. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-11.	1.9	29
69	Chronic Alcohol Intoxication and Cortical Ischemia: Study of Their Comorbidity and the Protective Effects of Minocycline. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-10.	1.9	23
70	Antidepressant drugs in convulsive seizures: Pre-clinical evaluation of duloxetine in mice. <i>Neurochemistry International</i> , 2016, 99, 62-71.	1.9	11
71	Is Low Non-Lethal Concentration of Methylmercury Really Safe? A Report on Genotoxicity with Delayed Cell Proliferation. <i>PLoS ONE</i> , 2016, 11, e0162822.	1.1	37
72	Methylmercury inhibits prolactin release in a cell line of pituitary origin. <i>Brazilian Journal of Medical and Biological Research</i> , 2015, 48, 691-696.	0.7	5

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73	Anticonvulsant properties of Euterpe oleracea in mice. <i>Neurochemistry International</i> , 2015, 90, 20-27.	1.9	39
74	Chronic ethanol exposure during adolescence through early adulthood in female rats induces emotional and memory deficits associated with morphological and molecular alterations in hippocampus. <i>Journal of Psychopharmacology</i> , 2015, 29, 712-724.	2.0	60
75	Chronic Ethanol Exposure during Adolescence in Rats Induces Motor Impairments and Cerebral Cortex Damage Associated with Oxidative Stress. <i>PLoS ONE</i> , 2014, 9, e101074.	1.1	57
76	Morphine Protects against Methylmercury Intoxication: A Role for Opioid Receptors in Oxidative Stress?. <i>PLoS ONE</i> , 2014, 9, e110815.	1.1	14
77	Therapeutic concentration of morphine reduces oxidative stress in glioma cell line. <i>Brazilian Journal of Medical and Biological Research</i> , 2014, 47, 398-402.	0.7	20
78	Nitric oxide as a regulatory molecule in the processing of the visual stimulus. <i>Nitric Oxide - Biology and Chemistry</i> , 2014, 36, 44-50.	1.2	18
79	Comparative study of mercury speciation in commercial fishes of the Brazilian Amazon. <i>Environmental Science and Pollution Research</i> , 2014, 21, 7466-79.	2.7	44
80	Ascorbic Acid Protects Against Anxiogenic-Like Effect Induced by Methylmercury in Zebrafish: Action on the Serotonergic System. <i>Zebrafish</i> , 2014, 11, 365-370.	0.5	31
81	Local NO synthase inhibition produces histological and functional recovery in Achilles tendon of rats after tenotomy. <i>Cell and Tissue Research</i> , 2013, 353, 457-463.	1.5	9
82	Role of serotonin in zebrafish ( <i>Danio rerio</i> ) anxiety: Relationship with serotonin levels and effect of buspirone, WAY 100635, SB 224289, fluoxetine and para-chlorophenylalanine (pCPA) in two behavioral models. <i>Neuropharmacology</i> , 2013, 71, 83-97.	2.0	155
83	GABA and glutamate transporters: New events and function in the vertebrate retina.. <i>Psychology and Neuroscience</i> , 2013, 6, 145-150.	0.5	4
84	Determination of glutamate uptake by high performance liquid chromatography (HPLC) in preparations of retinal tissue. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 907, 1-6.	1.2	19
85	Molecular chaperones: Toward new therapeutic tools. <i>Biomedicine and Pharmacotherapy</i> , 2011, 65, 239-243.	2.5	44
86	Genotoxicity of mercury: Contributing for the analysis of Amazonian populations. <i>Environment International</i> , 2011, 37, 136-141.	4.8	48
87	<i>Cordia verbenacea</i> and secretion of mast cells in different animal species. <i>Journal of Ethnopharmacology</i> , 2011, 135, 463-468.	2.0	11
88	Possible role of serotonergic system in the neurobehavioral impairment induced by acute methylmercury exposure in zebrafish ( <i>Danio rerio</i> ). <i>Neurotoxicology and Teratology</i> , 2011, 33, 727-734.	1.2	64
89	Glutamate Induces Glutathione Efflux Mediated by Glutamate/Aspartate Transporter in Retinal Cell Cultures. <i>Neurochemical Research</i> , 2011, 36, 412-418.	1.6	13
90	Pathogenic action of <i>Plasmodium gallinaceum</i> in chickens: Brain histology and nitric oxide production by blood monocyte-derived macrophages. <i>Veterinary Parasitology</i> , 2010, 172, 16-22.	0.7	10

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91	Pharmacological characterization of glutamate Na <sup>+</sup> -independent transport in retinal cell cultures: Implications in the glutathione metabolism. <i>Neurochemistry International</i> , 2010, 56, 59-66.	1.9	4
92	Mercury in the Tapaj�s River basin, Brazilian Amazon: A review. <i>Environment International</i> , 2010, 36, 593-608.	4.8	164
93	Intracellular sAPP retention in response to A� <sup>2</sup> is mapped to cytoskeleton-associated structures. <i>Journal of Neuroscience Research</i> , 2009, 87, 1449-1461.	1.3	21
94	Mercury speciation analysis on cell lines of the human central nervous system to explain genotoxic effects. <i>Microchemical Journal</i> , 2009, 93, 12-16.	2.3	16
95	Mercury and human genotoxicity: Critical considerations and possible molecular mechanisms. <i>Pharmacological Research</i> , 2009, 60, 212-220.	3.1	220
96	Modification of Nitric Oxide Synthase Activity and Neuronal Response in Rat Striatum by Melatonin and Kynurenine Derivatives. <i>Journal of Neuroendocrinology</i> , 2008, 10, 297-302.	1.2	59
97	Mercury exposure and antioxidant defenses in women: A comparative study in the Amazon. <i>Environmental Research</i> , 2008, 107, 53-59.	3.7	67
98	Methylmercury neurotoxicity & antioxidant defenses. <i>Indian Journal of Medical Research</i> , 2008, 128, 373-82.	0.4	22
99	Mercury pollution and childhood in Amazon riverside villages. <i>Environment International</i> , 2007, 33, 56-61.	4.8	60
100	Methylmercury genotoxicity: A novel effect in human cell lines of the central nervous system. <i>Environment International</i> , 2007, 33, 141-146.	4.8	86
101	Genetic structure of the diploid-polyloid fish <i>Squalius alburnoides</i> in southern Iberian basins Tejo and Guadiana, based on microsatellites. <i>Journal of Fish Biology</i> , 2007, 71, 423-436.	0.7	12
102	Comparative study of human exposure to mercury in riverside communities in the Amazon region. <i>Brazilian Journal of Medical and Biological Research</i> , 2006, 39, 411-414.	0.7	53
103	Methylmercury intoxication activates nitric oxide synthase in chick retinal cell culture. <i>Brazilian Journal of Medical and Biological Research</i> , 2006, 39, 415-418.	0.7	36
104	Modes of reproduction of the hybridogenetic fish <i>Squalius alburnoides</i> in the Tejo and Guadiana rivers: An approach with microsatellites. <i>Zoology</i> , 2006, 109, 277-286.	0.6	29
105	Exposi�o humana ao merc�rio na regi�o Oeste do Estado do Par�. <i>Revista Paraense De Medicina</i> , 2006, 20, .	0.0	2
106	Simultaneous production of triploid and haploid eggs by triploid <i>Squalius alburnoides</i> (Teleostei): Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 552-558.	1.3	45
107	Melatonin inhibits expression of the inducible NO synthase II in liver and lung and prevents endotoxemia in lipopolysaccharide-induced multiple organ dysfunction syndrome in rats. <i>FASEB Journal</i> , 1999, 13, 1537-1546.	0.2	264