Maria Elena Crespo-Lopez

List of Publications by Year
in descending order

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	Melatonin inhibits expression of the inducible NO synthase II in liver and lung and prevents endotoxemia in lipopolysaccharideâ€induced multiple organ dysfunction syndrome in rats. FASEB Journal, 1999, 13, 1537-1546.	0.2	264
2	Mercury and human genotoxicity: Critical considerations and possible molecular mechanisms. Pharmacological Research, 2009, 60, 212-220.	3.1	220
3	Mercury in the TapajÃ³s River basin, Brazilian Amazon: A review. Environment International, 2010, 36, 593-608.	4.8	164
4	Role of serotonin in zebrafish (Danio rerio) anxiety: Relationship with serotonin levels and effect of buspirone, WAY 100635, SB 224289, fluoxetine and para-chlorophenylalanine (pCPA) in two behavioral models. Neuropharmacology, 2013, 71, 83-97.	2.0	155
5	Mercury: What can we learn from the Amazon?. Environment International, 2021, 146, 106223.	4.8	95
6	Exposure to Inorganic Mercury Causes Oxidative Stress, Cell Death, and Functional Deficits in the Motor Cortex. Frontiers in Molecular Neuroscience, 2018, 11, 125.	1.4	92
7	What Do Microglia Really Do in Healthy Adult Brain?. Cells, 2019, 8, 1293.	1.8	91
8	Methylmercury genotoxicity: A novel effect in human cell lines of the central nervous system. Environment International, 2007, 33, 141-146.	4.8	86
9	Astroglia-specific contributions to the regulation of synapses, cognition and behaviour. Neuroscience and Biobehavioral Reviews, 2020, 118, 331-357.	2.9	70
10	Mercury exposure and antioxidant defenses in women: A comparative study in the Amazon. Environmental Research, 2008, 107, 53-59.	3.7	67
11	Large-scale projects in the amazon and human exposure to mercury: The case-study of the TucuruÃ-Dam. Ecotoxicology and Environmental Safety, 2018, 147, 299-305.	2.9	67
12	Possible role of serotoninergic system in the neurobehavioral impairment induced by acute methylmercury exposure in zebrafish (Danio rerio). Neurotoxicology and Teratology, 2011, 33, 727-734.	1.2	64
13	Mercury pollution and childhood in Amazon riverside villages. Environment International, 2007, 33, 56-61.	4.8	60
14	Chronic ethanol exposure during adolescence through early adulthood in female rats induces emotional and memory deficits associated with morphological and molecular alterations in hippocampus. Journal of Psychopharmacology, 2015, 29, 712-724.	2.0	60
15	Modification of Nitric Oxide Synthase Activity and Neuronal Response in Rat Striatum by Melatonin and Kynurenine Derivatives. Journal of Neuroendocrinology, 2008, 10, 297-302.	1.2	59
16	Human neurotoxicity of mercury in the Amazon: A scoping review with insights and critical considerations. Ecotoxicology and Environmental Safety, 2021, 208, 111686.	2.9	59
17	Chronic Ethanol Exposure during Adolescence in Rats Induces Motor Impairments and Cerebral Cortex Damage Associated with Oxidative Stress. PLoS ONE, 2014, 9, e101074.	1.1	57
18	Comparative study of human exposure to mercury in riverside communities in the Amazon region. Brazilian Journal of Medical and Biological Research, 2006, 39, 411-414.	0.7	53

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19	Low doses of methylmercury exposure during adulthood in rats display oxidative stress, neurodegeneration in the motor cortex and lead to impairment of motor skills. Journal of Trace Elements in Medicine and Biology, 2019, 51, 19-27.	1.5	51
20	Hippocampal Dysfunction Provoked by Mercury Chloride Exposure: Evaluation of Cognitive Impairment, Oxidative Stress, Tissue Injury and Nature of Cell Death. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-11.	1.9	49
21	Proteomic approach underlying the hippocampal neurodegeneration caused by low doses of methylmercury after long-term exposure in adult rats. Metallomics, 2019, 11, 390-403.	1.0	49
22	Adult Hippocampal Neurogenesis in Different Taxonomic Groups: Possible Functional Similarities and Striking Controversies. Cells, 2019, 8, 125.	1.8	49
23	Genotoxicity of mercury: Contributing for the analysis of Amazonian populations. Environment International, 2011, 37, 136-141.	4.8	48
24	Simultaneous production of triploid and haploid eggs by triploidSqualius alburnoides(Teleostei:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 552-558.	1.3	45
25	Molecular chaperones: Toward new therapeutic tools. Biomedicine and Pharmacotherapy, 2011, 65, 239-243.	2.5	44
26	Comparative study of mercury speciation in commercial fishes of the Brazilian Amazon. Environmental Science and Pollution Research, 2014, 21, 7466-79.	2.7	44
27	Plasticity of microglia. Biological Reviews, 2022, 97, 217-250.	4.7	44
28	Anticonvulsant properties of Euterpe oleracea in mice. Neurochemistry International, 2015, 90, 20-27.	1.9	39
29	Fluoride exposure during pregnancy and lactation triggers oxidative stress and molecular changes in hippocampus of offspring rats. Ecotoxicology and Environmental Safety, 2021, 208, 111437.	2.9	37
30	Is Low Non-Lethal Concentration of Methylmercury Really Safe? A Report on Genotoxicity with Delayed Cell Proliferation. PLoS ONE, 2016, 11, e0162822.	1.1	37
31	Methylmercury intoxication activates nitric oxide synthase in chick retinal cell culture. Brazilian Journal of Medical and Biological Research, 2006, 39, 415-418.	0.7	36
32	Oxidative Biochemistry Disbalance and Changes on Proteomic Profile in Salivary Glands of Rats Induced by Chronic Exposure to Methylmercury. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-15.	1.9	36
33	Genetic Susceptibility to Neurodegeneration in Amazon: Apolipoprotein E Genotyping in Vulnerable Populations Exposed to Mercury. Frontiers in Genetics, 2018, 9, 285.	1.1	36
34	Ascorbic Acid Protects Against Anxiogenic-Like Effect Induced by Methylmercury in Zebrafish: Action on the Serotonergic System. Zebrafish, 2014, 11, 365-370.	0.5	31
35	Modes of reproduction of the hybridogenetic fish Squalius alburnoides in the Tejo and Guadiana rivers: An approach with microsatellites. Zoology, 2006, 109, 277-286.	0.6	29
36	Binge Drinking of Ethanol during Adolescence Induces Oxidative Damage and Morphological Changes in Salivary Glands of Female Rats. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-11.	1.9	29

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37	Previous physical exercise alters the hepatic profile of oxidativeâ€inflammatory status and limits the secondary brain damage induced by severe traumatic brain injury in rats. Journal of Physiology, 2017, 595, 6023-6044.	1.3	29
38	Assessing mercury intoxication in isolated/remote populations: Increased S100B mRNA in blood in exposed riverine inhabitants of the Amazon. NeuroToxicology, 2018, 68, 151-158.	1.4	29
39	Antidepressant and Antiaging Effects of AÃ§aÃ-(Euterpe oleracea Mart.) in Mice. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-16.	1.9	28
40	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. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-14.	1.9	26
41	Towards Therapeutic Alternatives for Mercury Neurotoxicity in the Amazon: Unraveling the Pre-Clinical Effects of the Superfruit AÃ§aÃ-(Euterpe oleracea, Mart.) as Juice for Human Consumption. Nutrients, 2019, 11, 2585.	1.7	24
42	Chronic Alcohol Intoxication and Cortical Ischemia: Study of Their Comorbidity and the Protective Effects of Minocycline. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-10.	1.9	23
43	Role for apolipoprotein E in neurodegeneration and mercury intoxication. Frontiers in Bioscience - Elite, 2018, 10, 229-241.	0.9	23
44	Effects of Fluoride Long-Term Exposure over the Cerebellum: Global Proteomic Profile, Oxidative Biochemistry, Cell Density, and Motor Behavior Evaluation. International Journal of Molecular Sciences, 2020, 21, 7297.	1.8	23
45	Spinal cord neurodegeneration after inorganic mercury long-term exposure in adult rats: Ultrastructural, proteomic and biochemical damages associated with reduced neuronal density. Ecotoxicology and Environmental Safety, 2020, 191, 110159.	2.9	23
46	Low doses of methylmercury intoxication solely or associated to ethanol binge drinking induce psychiatric-like disorders in adolescent female rats. Environmental Toxicology and Pharmacology, 2018, 60, 184-194.	2.0	22
47	Preclinical evidences of aluminum-induced neurotoxicity in hippocampus and pre-frontal cortex of rats exposed to low doses. Ecotoxicology and Environmental Safety, 2020, 206, 111139.	2.9	22
48	Methylmercury neurotoxicity & antioxidant defenses. Indian Journal of Medical Research, 2008, 128, 373-82.	0.4	22
49	Intracellular sAPP retention in response to AÎ² is mapped to cytoskeletonâ€associated structures. Journal of Neuroscience Research, 2009, 87, 1449-1461.	1.3	21
50	Chronic exposure to inorganic mercury induces biochemical and morphological changes in the salivary glands of rats. Metallomics, 2017, 9, 1271-1278.	1.0	21
51	Obesity: More Than an Inflammatory, an Infectious Disease?. Frontiers in Immunology, 2020, 10, 3092.	2.2	21
52	Revisiting Astrocytic Roles in Methylmercury Intoxication. Molecular Neurobiology, 2021, 58, 4293-4308.	1.9	21
53	Therapeutic concentration of morphine reduces oxidative stress in glioma cell line. Brazilian Journal of Medical and Biological Research, 2014, 47, 398-402.	0.7	20
54	Mauritia flexuosa L. protects against deficits in memory acquisition and oxidative stress in rat hippocampus induced by methylmercury exposure. Nutritional Neuroscience, 2017, 20, 297-304.	1.5	20

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55	Determination of glutamate uptake by high performance liquid chromatography (HPLC) in preparations of retinal tissue. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 907, 1-6.	1.2	19
56	Selective effects of Euterpe oleracea (aÃ§ai) on Leishmania (Leishmania) amazonensis and Leishmania infantum. Biomedicine and Pharmacotherapy, 2018, 97, 1613-1621.	2.5	19
57	Nitric oxide as a regulatory molecule in the processing of the visual stimulus. Nitric Oxide - Biology and Chemistry, 2014, 36, 44-50.	1.2	18
58	Methylmercury intoxication and cortical ischemia: Pre-clinical study of their comorbidity. Ecotoxicology and Environmental Safety, 2019, 174, 557-565.	2.9	18
59	Apolipoprotein E, periodontal disease and the risk for atherosclerosis: a review. Archives of Oral Biology, 2019, 98, 204-212.	0.8	18
60	Chronic intoxication by methylmercury leads to oxidative damage and cell death in salivary glands of rats. Metallomics, 2017, 9, 1778-1785.	1.0	17
61	In the Heart of the Amazon: Noncommunicable Diseases and Apolipoprotein E4 Genotype in the Riverine Population. International Journal of Environmental Research and Public Health, 2018, 15, 1957.	1.2	17
62	Clarified AÃ§aÃ-(Euterpe oleracea) Juice as an Anticonvulsant Agent: In Vitro Mechanistic Study of GABAergic Targets. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-6.	1.9	17
63	Long-Term Lead Exposure Since Adolescence Causes Proteomic and Morphological Alterations in the Cerebellum Associated with Motor Deficits in Adult Rats. International Journal of Molecular Sciences, 2020, 21, 3571.	1.8	17
64	Mercury speciation analysis on cell lines of the human central nervous system to explain genotoxic effects. Microchemical Journal, 2009, 93, 12-16.	2.3	16
65	Unravelling motor behaviour hallmarks in intoxicated adolescents: methylmercury subtoxic-dose exposure and binge ethanol intake paradigm in rats. Environmental Science and Pollution Research, 2018, 25, 21937-21948.	2.7	15
66	â€œSpecial Kâ€•Drug on Adolescent Rats: Oxidative Damage and Neurobehavioral Impairments. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-10.	1.9	15
67	Morphine Protects against Methylmercury Intoxication: A Role for Opioid Receptors in Oxidative Stress?. PLoS ONE, 2014, 9, e110815.	1.1	14
68	Eating in the Amazon: Nutritional Status of the Riverine Populations and Possible Nudge Interventions. Foods, 2021, 10, 1015.	1.9	14
69	Glutamate Induces Glutathione Efflux Mediated by Glutamate/Aspartate Transporter in Retinal Cell Cultures. Neurochemical Research, 2011, 36, 412-418.	1.6	13
70	From Molecules to Behavior in Long-Term Inorganic Mercury Intoxication: Unraveling Proteomic Features in Cerebellar Neurodegeneration of Rats. International Journal of Molecular Sciences, 2022, 23, 111.	1.8	13
71	Genetic structure of the diploidâ€“polyploid fish Squalius alburnoides in southern Iberian basins Tejo and Guadiana, based on microsatellites. Journal of Fish Biology, 2007, 71, 423-436.	0.7	12
72	Flavonoids from the Amazon plant Brosimum acutifolium induce C6 glioma cell line apoptosis by disrupting mitochondrial membrane potential and reducing AKT phosphorylation. Biomedicine and Pharmacotherapy, 2019, 113, 108728.	2.5	12

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73	Association between methylmercury environmental exposure and neurological disorders: A systematic review. Journal of Trace Elements in Medicine and Biology, 2019, 52, 100-110.	1.5	12
74	Lead-Induced Motor Dysfunction Is Associated with Oxidative Stress, Proteome Modulation, and Neurodegeneration in Motor Cortex of Rats. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-10.	1.9	12
75	Cordia verbenacea and secretion of mast cells in different animal species. Journal of Ethnopharmacology, 2011, 135, 463-468.	2.0	11
76	Antidepressant drugs in convulsive seizures: Pre-clinical evaluation of duloxetine in mice. Neurochemistry International, 2016, 99, 62-71.	1.9	11
77	Methylmercury-Induced Toxicopathologic Findings in Salivary Glands of Offspring Rats After Gestational and Lactational Exposure. Biological Trace Element Research, 2020, 199, 2983-2991.	1.9	11
78	Pathogenic action of Plasmodium gallinaceum in chickens: Brain histology and nitric oxide production by blood monocyte-derived macrophages. Veterinary Parasitology, 2010, 172, 16-22.	0.7	10
79	Effects of lead exposure on salivary glands of rats: insights into the oxidative biochemistry and glandular morphology. Environmental Science and Pollution Research, 2021, 28, 10918-10930.	2.7	10
80	Local NO synthase inhibition produces histological and functional recovery in Achilles tendon of rats after tenotomy. Cell and Tissue Research, 2013, 353, 457-463.	1.5	9
81	Chronic methylmercury exposure causes spinal cord impairment: Proteomic modulation and oxidative stress. Food and Chemical Toxicology, 2020, 146, 111772.	1.8	9
82	Long-term exposure to lead reduces antioxidant capacity and triggers motor neurons degeneration and demyelination in spinal cord of adult rats. Ecotoxicology and Environmental Safety, 2020, 194, 110358.	2.9	9
83	Salivary biomarkers and neuropsychological outcomes: A non-invasive approach to investigate pollutants-associated neurotoxicity and its effects on cognition in vulnerable populations. Environmental Research, 2021, 200, 111432.	3.7	9
84	Pollutants and nutrition: Are methylmercury effects on blood pressure and lipoprotein profile comparable to high-fat diet in mice?. Ecotoxicology and Environmental Safety, 2020, 204, 111036.	2.9	8
85	Living in the Southern Hemisphere: Metabolic Syndrome and Its Components in Amazonian Riverine Populations. Journal of Clinical Medicine, 2021, 10, 3630.	1.0	8
86	Mercury neurotoxicity in gold miners. Advances in Neurotoxicology, 2022, , 283-314.	0.7	8
87	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. Toxicology, 2021, 464, 152992.	2.0	7
88	A systematic review of the mental health risks and resilience among pollution-exposed adolescents. Journal of Psychiatric Research, 2022, 146, 55-66.	1.5	7
89	Methylmercury exposure during prenatal and postnatal neurodevelopment promotes oxidative stress associated with motor and cognitive damages in rats: an environmental-experimental toxicology study. Toxicology Reports, 2022, 9, 563-574.	1.6	7
90	Translational relevance for in vitro/in vivo models: A novel approach to mercury dosing. Food and Chemical Toxicology, 2022, 166, 113210.	1.8	7

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91	Oral methylmercury intoxication aggravates cardiovascular risk factors and accelerates atherosclerosis lesion development in ApoE knockout and C57BL/6 mice. Toxicological Research, 2021, 37, 311-321.	1.1	6
92	Fatty Acid Amides Synthesized from Andiroba Oil (Carapa guianensis Aublet.) Exhibit Anticonvulsant Action with Modulation on GABA-A Receptor in Mice: A Putative Therapeutic Option. Pharmaceuticals, 2020, 13, 43.	1.7	6
93	Methylmercury inhibits prolactin release in a cell line of pituitary origin. Brazilian Journal of Medical and Biological Research, 2015, 48, 691-696.	0.7	5
94	Metabolic and oxidative impairments in human salivary gland cells line exposed to MeHg. Journal of Trace Elements in Medicine and Biology, 2021, 66, 126747.	1.5	5
95	Salivary parameters alterations after early exposure to environmental methylmercury: A preclinical study in offspring rats. Journal of Trace Elements in Medicine and Biology, 2021, 68, 126820.	1.5	5
96	Contributing to Understand the Crosstalk between Brain and Periphery in Methylmercury Intoxication: Neurotoxicity and Extracellular Vesicles. International Journal of Molecular Sciences, 2021, 22, 10855.	1.8	5
97	Salivary Glands after Prolonged Aluminum Exposure: Proteomic Approach Underlying Biochemical and Morphological Impairments in Rats. International Journal of Molecular Sciences, 2022, 23, 2251.	1.8	5
98	Pharmacological characterization of glutamate Na+-independent transport in retinal cell cultures: Implications in the glutathione metabolism. Neurochemistry International, 2010, 56, 59-66.	1.9	4
99	Evaluation of Cerebellar Function and Integrity of Adult Rats After Long-Term Exposure to Aluminum at Equivalent Urban Region Consumption Concentrations. Biological Trace Element Research, 2021, 199, 1425-1436.	1.9	4
100	GABA and glutamate transporters: New events and function in the vertebrate retina.. Psychology and Neuroscience, 2013, 6, 145-150.	0.5	4
101	The GABAergic System and Endocannabinoids in Epilepsy and Seizures: What Can We Expect from Plant Oils?. Molecules, 2022, 27, 3595.	1.7	4
102	Preventing Chagas disease: A new RT-qPCR method for rapid and specific quantification of viable Trypanosoma cruzi for food safety. Food Research International, 2021, 144, 110368.	2.9	3
103	Methylmercury Causes Neurodegeneration and Downregulation of Myelin Basic Protein in the Spinal Cord of Offspring Rats after Maternal Exposure. International Journal of Molecular Sciences, 2022, 23, 3777.	1.8	3
104	Effects of pollution on adolescent mental health: a systematic review protocol. Systematic Reviews, 2021, 10, 85.	2.5	2
105	ExposiÃ§Ã£o humana ao mercÃºrio na regiÃ£o Oeste do Estado do ParÃ¡. Revista Paraense De Medicina, 2006, 20, .	0.0	2
106	Maternal methylmercury exposure changes the proteomic profile of the offspringâ€™s salivary glands: Prospects on translational toxicology. PLoS ONE, 2021, 16, e0258969.	1.1	1
107	DNA Damage and Proteomic Profile Changes in Rat Salivary Glands After Chronic Exposure to Inorganic Mercury. Biological Trace Element Research, 2022, , 1.	1.9	1