Argelia Castano

List of Publications by Year
in descending order

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Version: 2024-02-01

100 papers	4,124 citations	125106 35 h-index	139680 61 g-index
104 all docs	104 docs citations	104 times ranked	4668 citing authors

#	Article	IF	Citations
1	Critical review of analytical methods for the determination of flame retardants in human matrices. Analytica Chimica Acta, 2022, 1193, 338828.	2.6	9
2	HBM4EU chromates study - Overall results and recommendations for the biomonitoring of occupational exposure to hexavalent chromium. Environmental Research, 2022, 204, 111984.	3.7	32
3	Selecting the best non-invasive matrix to measure mercury exposure in human biomonitoring surveys. Environmental Research, 2022, 204, 112394.	3.7	11
4	Interlaboratory Comparison Investigations (ICIs) for human biomonitoring of chromium as part of the quality assurance programme under HBM4EU. Journal of Trace Elements in Medicine and Biology, 2022, 70, 126912.	1.5	7
5	Proficiency and Interlaboratory Variability in the Determination of Phthalate and DINCH Biomarkers in Human Urine: Results from the HBM4EU Project. Toxics, 2022, 10, 57.	1.6	13
6	European interlaboratory comparison investigations (ICI) and external quality assurance schemes (EQUAS) for the analysis of bisphenol A, S and F in human urine: Results from the HBM4EU project. Environmental Research, 2022, 210, 112933.	3.7	10
7	Harmonization of Human Biomonitoring Studies in Europe: Characteristics of the HBM4EU-Aligned Studies Participants. International Journal of Environmental Research and Public Health, 2022, 19, 6787.	1.2	36
8	Improving the Risk Assessment of Pesticides through the Integration of Human Biomonitoring and Food Monitoring Data: A Case Study for Chlorpyrifos. Toxics, 2022, 10, 313.	1.6	9
9	Personal care product use and lifestyle affect phthalate and DINCH metabolite levels in teenagers and young adults. Environmental Research, 2022, 213, 113675.	3.7	14
10	Biomarkers, matrices and analytical methods targeting human exposure to chemicals selected for a European human biomonitoring initiative. Environment International, 2021, 146, 106082.	4.8	83
11	Challenges to Evidence Synthesis and Identification of Data Gaps in Human Biomonitoring. International Journal of Environmental Research and Public Health, 2021, 18, 2830.	1.2	0
12	Towards harmonised criteria in quality assurance and quality control of suspect and non-target LC-HRMS analytical workflows for screening of emerging contaminants in human biomonitoring. TrAC - Trends in Analytical Chemistry, 2021, 136, 116201.	5.8	41
13	A Phased Approach for preparation and organization of human biomonitoring studies. International Journal of Hygiene and Environmental Health, 2021, 232, 113684.	2.1	12
14	The European human biomonitoring platform - Design and implementation of a laboratory quality assurance/quality control (QA/QC) programme for selected priority chemicals. International Journal of Hygiene and Environmental Health, 2021, 234, 113740.	2.1	71
15	Interlaboratory comparison investigations (ICI) and external quality assurance schemes (EQUAS) for cadmium in urine and blood: Results from the HBM4EU project. International Journal of Hygiene and Environmental Health, 2021, 234, 113711.	2.1	20
16	HBM4EU combines and harmonises human biomonitoring data across the EU, building on existing capacity â€“ The HBM4EU survey. International Journal of Hygiene and Environmental Health, 2021, 237, 113809.	2.1	61
17	Interlaboratory comparison investigations (ICIs) and external quality assurance schemes (EQUASs) for flame retardant analysis in biological matrices: Results from the HBM4EU project. Environmental Research, 2021, 202, 111705.	3.7	13
18	Setting up a collaborative European human biological monitoring study on occupational exposure to hexavalent chromium. Environmental Research, 2019, 177, 108583.	3.7	53

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19	Human biomonitoring in health risk assessment in Europe: Current practices and recommendations for the future. International Journal of Hygiene and Environmental Health, 2019, 222, 727-737.	2.1	124
20	Mothers and children are related, even in exposure to chemicals present in common consumer products. Environmental Research, 2019, 175, 297-307.	3.7	40
21	Mercury levels in blood, urine and hair in a nation-wide sample of Spanish adults. Science of the Total Environment, 2019, 670, 262-270.	3.9	25
22	Associations of multiple exposures to persistent toxic substances with the risk of hyperuricemia and subclinical uric acid levels in BIOAMBIENT.ES study. Environment International, 2019, 123, 512-521.	4.8	36
23	Differential contribution of animal and vegetable food items on persistent organic pollutant serum concentrations in Spanish adults. Data from BIOAMBIENT.ES project. Science of the Total Environment, 2018, 634, 235-242.	3.9	41
24	Human biomonitoring pilot study DEMOCOPHES in Germany: Contribution to a harmonized European approach. International Journal of Hygiene and Environmental Health, 2017, 220, 686-696.	2.1	50
25	Human biomonitoring as a tool to support chemicals regulation in the European Union. International Journal of Hygiene and Environmental Health, 2017, 220, 94-97.	2.1	160
26	Perfluorinated alkyl substances in Spanish adults: Geographical distribution and determinants of exposure. Science of the Total Environment, 2017, 603-604, 352-360.	3.9	43
27	Organochlorinated pesticides levels in a representative sample of the Spanish adult population: The Bioambient.es project. International Journal of Hygiene and Environmental Health, 2017, 220, 217-226.	2.1	19
28	Urinary Phthalate Concentrations in Mothers and Their Children in Ireland: Results of the DEMOCOPHES Human Biomonitoring Study. International Journal of Environmental Research and Public Health, 2017, 14, 1456.	1.2	31
29	A fast method for analysing six perfluoroalkyl substances in human serum by solid-phase extraction on-line coupled to liquid chromatography tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2016, 408, 2159-2170.	1.9	13
30	Cadmium levels in a representative sample of the Spanish adult population: The BIOAMBIENT.ES project. Journal of Exposure Science and Environmental Epidemiology, 2016, 26, 471-480.	1.8	28
31	Harmonized European human biomonitoring in small countries: Challenges, opportunities and lessons learned in Cyprus and Luxembourg from the DEMOCOPHES study. Biomonitoring, 2015, 2, .	1.0	2
32	Fish consumption patterns and hair mercury levels in children and their mothers in 17 EU countries. Environmental Research, 2015, 141, 58-68.	3.7	107
33	Urinary polycyclic aromatic hydrocarbon metabolites levels in a representative sample of the Spanish adult population: The BIOAMBIENT.ES project. Chemosphere, 2015, 135, 436-446.	4.2	45
34	Gender differences in cadmium and cotinine levels in prepubertal children. Environmental Research, 2015, 141, 125-131.	3.7	4
35	Anti-smoking legislation and its effects on urinary cotinine and cadmium levels. Environmental Research, 2015, 136, 227-233.	3.7	25
36	A pilot study on the feasibility of European harmonized human biomonitoring: Strategies towards a common approach, challenges and opportunities. Environmental Research, 2015, 141, 3-14.	3.7	33

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37	Lessons learnt on recruitment and fieldwork from a pilot European human biomonitoring survey. Environmental Research, 2015, 141, 15-23.	3.7	18
38	First Steps toward Harmonized Human Biomonitoring in Europe: Demonstration Project to Perform Human Biomonitoring on a European Scale. Environmental Health Perspectives, 2015, 123, 255-263.	2.8	168
39	Policy recommendations and cost implications for a more sustainable framework for European human biomonitoring surveys. Environmental Research, 2015, 141, 42-57.	3.7	14
40	Urinary cotinine levels and environmental tobacco smoke in mothers and children of Romania, Portugal and Poland within the European human biomonitoring pilot study. Environmental Research, 2015, 141, 106-117.	3.7	30
41	Case study: Possible differences in phthalates exposure among the Czech, Hungarian, and Slovak populations identified based on the DEMOCOPHES pilot study results. Environmental Research, 2015, 141, 118-124.	3.7	25
42	Pilot study testing a European human biomonitoring framework for biomarkers of chemical exposure in children and their mothers: experiences in the UK. Environmental Science and Pollution Research, 2015, 22, 15821-15834.	2.7	18
43	Exposure determinants of cadmium in European mothers and their children. Environmental Research, 2015, 141, 69-76.	3.7	64
44	Communication in a Human biomonitoring study: Focus group work, public engagement and lessons learnt in 17 European countries. Environmental Research, 2015, 141, 31-41.	3.7	25
45	Mercury analysis in hair: Comparability and quality assessment within the transnational COPHES/DEMOCOPHES project. Environmental Research, 2015, 141, 24-30.	3.7	44
46	Urinary levels of eight phthalate metabolites and bisphenol A in motherâ€“child pairs from two Spanish locations. International Journal of Hygiene and Environmental Health, 2015, 218, 47-57.	2.1	64
47	Urinary BPA measurements in children and mothers from six European member states: Overall results and determinants of exposure. Environmental Research, 2015, 141, 77-85.	3.7	143
48	The Danish contribution to the European DEMOCOPHES project: A description of cadmium, cotinine and mercury levels in Danish mother-child pairs and the perspectives of supplementary sampling and measurements. Environmental Research, 2015, 141, 96-105.	3.7	15
49	Interpreting biomarker data from the COPHES/DEMOCOPHES twin projects: Using external exposure data to understand biomarker differences among countries. Environmental Research, 2015, 141, 86-95.	3.7	25
50	Mercury Exposure in Ireland: Results of the DEMOCOPHES Human Biomonitoring Study. International Journal of Environmental Research and Public Health, 2014, 11, 9760-9775.	1.2	8
51	Blood lead levels in a representative sample of the Spanish adult population: The BIOAMBIENT.ES project. International Journal of Hygiene and Environmental Health, 2014, 217, 452-459.	2.1	50
52	The European COPHES/DEMOCOPHES project: Towards transnational comparability and reliability of human biomonitoring results. International Journal of Hygiene and Environmental Health, 2014, 217, 653-661.	2.1	95
53	Hair mercury and urinary cadmium levels in Belgian children and their mothers within the framework of the COPHES/DEMOCOPHES projects. Science of the Total Environment, 2014, 472, 730-740.	3.9	40
54	Serum PCB levels in a representative sample of the SPANISH adult population: The BIOAMBIENT.ES project. Science of the Total Environment, 2014, 493, 834-844.	3.9	23

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55	High-performance liquid chromatography with diode-array detection cotinine method adapted for the assessment of tobacco smoke exposure. Journal of Separation Science, 2014, 37, 1404-1410.	1.3	4
56	A systematic approach for designing a HBM Pilot Study for Europe. International Journal of Hygiene and Environmental Health, 2014, 217, 312-322.	2.1	61
57	Economic benefits of methylmercury exposure control in Europe: Monetary value of neurotoxicity prevention. Environmental Health, 2013, 12, 3.	1.7	123
58	Seasonal variation of pharmaceutically active compounds in surface (Tagus River) and tap water (Central Spain). Environmental Science and Pollution Research, 2013, 20, 1396-1412.	2.7	69
59	BIOAMBIENT.ES study protocol: rationale and design of a cross-sectional human biomonitoring survey in Spain. Environmental Science and Pollution Research, 2013, 20, 1193-1202.	2.7	42
60	Risk of overestimation of urinary cadmium concentrations: interference from molybdenum. E3S Web of Conferences, 2013, 1, 21003.	0.2	8
61	Cytotoxicity and genotoxicity of sewage treatment plant effluents in rainbow trout cells (RTG-2). Water Research, 2012, 46, 6351-6358.	5.3	33
62	Levels of polychlorinated dibenzo-p-dioxins, dibenzofurans and dioxin-like polychlorinated biphenyls in placentas from the Spanish INMA birth cohort study. Science of the Total Environment, 2012, 441, 49-56.	3.9	14
63	Assessment of genotoxic effects induced by selected pesticides on RTGâ€2 fish cells by means of a modified fast micromethod assay. Environmental Toxicology, 2012, 27, 238-243.	2.1	9
64	Harmonised human biomonitoring in Europe: Activities towards an EU HBM framework. International Journal of Hygiene and Environmental Health, 2012, 215, 172-175.	2.1	68
65	Mercury, lead and cadmium levels in the urine of 170 Spanish adults: A pilot human biomonitoring study. International Journal of Hygiene and Environmental Health, 2012, 215, 191-195.	2.1	70
66	Toxicology Review in Metal Nanoparticles: Approximation in Gold and Cobalt Ferrite Nanoparticles. Advanced Science Letters, 2012, 6, 1-16.	0.2	2
67	Exploring Exposure in 27 Countries in a European Human Biomonitoring Studyâ€"Cophes. Epidemiology, 2011, 22, S230-S231.	1.2	4
68	Two years of a biomonitoring study of mercury in human hair and urine, Madrid (Spain). Toxicology Letters, 2010, 196, S39-S40.	0.4	3
69	Testing in Aquatic Ecotoxicology: What Are the Scientific Conditions for the â€˜3Râ€™ Concept?. , 2010, , 99-119.		0
70	Non-invasive matrices in human biomonitoring: A review. Environment International, 2009, 35, 438-449.	4.8	427
71	A National Human Biomonitoring Program on POPs and Heavy Metals in Spain. Epidemiology, 2009, 20, S243.	1.2	3
72	Cytotoxic and genotoxic effect in RTG-2 cell line exposed to selected biocides used in the disinfection of cooling towers. Ecotoxicology, 2008, 17, 273-279.	1.1	2

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73	Cytotoxicity of Leather Processing Effluents on the RTG-2 Fish Cell Line. Bulletin of Environmental Contamination and Toxicology, 2005, 75, 34-41.	1.3	4
74	Comparison of basal cytotoxicity data between mammalian and fish cell lines: A literature survey. Toxicology in Vitro, 2005, 19, 695-705.	1.1	60
75	Genotoxic effects of selected biocides on RTG-2 fish cells by means of a modified Fast Micromethod Assay. Aquatic Toxicology, 2005, 73, 55-64.	1.9	18
76	In vitro assessment of DNA damage after short- and long-term exposure to benzo(a)pyrene using RAPD and the RTG-2 fish cell line. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2004, 552, 141-151.	0.4	59
77	The use of Fish Cells in Ecotoxicology: The Report and Recommendations of ECVAM Workshop 47[,]. ATLA Alternatives To Laboratory Animals, 2003, 31, 317-351.	0.7	192
78	DETECTION BY RAPD OF GENETIC ALTERATIONS IN VITRO: AMPLIFICATION AND CONSERVATION CONDITIONS OF DNA EXTRACTS. Toxicology Mechanisms and Methods, 2002, 12, 155-167.	1.3	4
79	Detection of cytogenetic alterations and blood cell changes in natural populations of carp. Ecotoxicology, 2002, 11, 27-34.	1.1	26
80	Protein Precipitation In Vitro as a Measure of Chemical-induced Cytotoxicity: An EDIT Sub-programme. ATLA Alternatives To Laboratory Animals, 2001, 29, 309-324.	0.7	3
81	DNA fingerprint comparison of rainbow trout and RTG-2 cell line using random amplified polymorphic DNA. Ecotoxicology, 2001, 10, 115-124.	1.1	12
82	Flow cytometric detection of micronuclei and cell cycle alterations in fish-derived cells after exposure to three model genotoxic agents: mitomycin C, vincristine sulfate and benzo(a)pyrene. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2000, 465, 113-122.	0.9	34
83	The use of alternative systems for the ecotoxicological screening of complex mixtures on fish populations. Science of the Total Environment, 2000, 247, 337-348.	3.9	20
84	Detection of mitomycin C-induced genetic damage in fish cells by use of RAPD. Mutagenesis, 1999, 14, 449-456.	1.0	56
85	Characterization of RTG-2 Fish Cell Line by Random Amplified Polymorphic DNA. Ecotoxicology and Environmental Safety, 1998, 40, 56-64.	2.9	19
86	Sublethal Effects of Repeated Intraperitoneal Cadmium Injections on Rainbow Trout (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.9	28
87	MEIC Evaluation of Acute Systemic Toxicity. ATLA Alternatives To Laboratory Animals, 1998, 26, 617-658.	0.7	101
88	MEIC Evaluation of Acute Systemic Toxicity. ATLA Alternatives To Laboratory Animals, 1998, 26, 131-183.	0.7	54
89	P XIII.92 In vitro induction of micronuclei by benzo (a) pyrene on fish cell lines and detection by flow cytometry. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1997, 379, S115.	0.4	1
90	Correlations between the RTG-2 cytotoxicity test EC50 and in vivo LC50 rainbow trout bioassay. Chemosphere, 1996, 32, 2141-2157.	4.2	101

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91	Biological and chemical tools in the toxicological risk assessment of Jarama River, Madrid, Spain. Environmental Pollution, 1996, 93, 135-139.	3.7	29
92	Acute toxicity of selected metals and phenols on RTG-2 and CHSE-214 fish cell lines. Bulletin of Environmental Contamination and Toxicology, 1995, 55, 222-9.	1.3	24
93	Kinetics of copper and nitrite in rainbow trout (Oncorhynchus mykiss): The isolated perfused head preparation as alternative to in vivo assays. Toxicology in Vitro, 1995, 9, 505-508.	1.1	2
94	Assessing organic toxic pollutants in fish-canning factory effluents using cultured fish cells. Ecotoxicology, 1994, 3, 79-88.	1.1	10
95	Biological alternatives to chemical identification for the ecotoxicological assessment of industrial effluents: The RTGâ€2 in vitro cytotoxicity test. Environmental Toxicology and Chemistry, 1994, 13, 1607-1611.	2.2	34
96	ATP assay on cell monolayers as an index of cytotoxicity. Bulletin of Environmental Contamination and Toxicology, 1994, 53, 309-16.	1.3	26
97	Toxicity identification evaluations for the investigation of fish kills: A case study. Chemosphere, 1994, 29, 55-61.	4.2	22
98	A toxicological assessment of water pollution and its relationship to aquaculture development in Algeciras Bay, Cadiz, Spain. Archives of Environmental Contamination and Toxicology, 1991, 20, 480-487.	2.1	18
99	Detection of organic toxic pollutants in water and waste-water by liquid chromatography and in vitro cytotoxicity tests. Analytica Chimica Acta, 1990, 234, 193-197.	2.6	8
100	Interlaboratory Comparison Investigations (Ici) and External Quality Assurance Schemes (Equas)Â for Human Biomonitoring of Perfluoroalkyl Substances (Pfass) in Serum as Part of the Quality Assurance Programme Under Hbm4eu. SSRN Electronic Journal, 0, , .	0.4	3