

# Argelia Castano

## List of Publications by Year in descending order

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100  
papers

4,124  
citations

109321

35  
h-index

123424

61  
g-index

104  
all docs

104  
docs citations

104  
times ranked

4352  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-invasive matrices in human biomonitoring: A review. <i>Environment International</i> , 2009, 35, 438-449.	10.0	427
2	The use of Fish Cells in Ecotoxicology: The Report and Recommendations of ECVAM Workshop 47<sup></sup>. <i>ATLA Alternatives To Laboratory Animals</i> , 2003, 31, 317-351.	1.0	192
3	First Steps toward Harmonized Human Biomonitoring in Europe: Demonstration Project to Perform Human Biomonitoring on a European Scale. <i>Environmental Health Perspectives</i> , 2015, 123, 255-263.	6.0	168
4	Human biomonitoring as a tool to support chemicals regulation in the European Union. <i>International Journal of Hygiene and Environmental Health</i> , 2017, 220, 94-97.	4.3	160
5	Urinary BPA measurements in children and mothers from six European member states: Overall results and determinants of exposure. <i>Environmental Research</i> , 2015, 141, 77-85.	7.5	143
6	Human biomonitoring in health risk assessment in Europe: Current practices and recommendations for the future. <i>International Journal of Hygiene and Environmental Health</i> , 2019, 222, 727-737.	4.3	124
7	Economic benefits of methylmercury exposure control in Europe: Monetary value of neurotoxicity prevention. <i>Environmental Health</i> , 2013, 12, 3.	4.0	123
8	Fish consumption patterns and hair mercury levels in children and their mothers in 17 EU countries. <i>Environmental Research</i> , 2015, 141, 58-68.	7.5	107
9	Correlations between the RTG-2 cytotoxicity test EC50 and in vivo LC50 rainbow trout bioassay. <i>Chemosphere</i> , 1996, 32, 2141-2157.	8.2	101
10	MEIC Evaluation of Acute Systemic Toxicity. <i>ATLA Alternatives To Laboratory Animals</i> , 1998, 26, 617-658.	1.0	101
11	The European COPHES/DEMOCOPHES project: Towards transnational comparability and reliability of human biomonitoring results. <i>International Journal of Hygiene and Environmental Health</i> , 2014, 217, 653-661.	4.3	95
12	Biomarkers, matrices and analytical methods targeting human exposure to chemicals selected for a European human biomonitoring initiative. <i>Environment International</i> , 2021, 146, 106082.	10.0	83
13	The European human biomonitoring platform - Design and implementation of a laboratory quality assurance/quality control (QA/QC) programme for selected priority chemicals. <i>International Journal of Hygiene and Environmental Health</i> , 2021, 234, 113740.	4.3	71
14	Mercury, lead and cadmium levels in the urine of 170 Spanish adults: A pilot human biomonitoring study. <i>International Journal of Hygiene and Environmental Health</i> , 2012, 215, 191-195.	4.3	70
15	Seasonal variation of pharmaceutically active compounds in surface (Tagus River) and tap water (Central Spain). <i>Environmental Science and Pollution Research</i> , 2013, 20, 1396-1412.	5.3	69
16	Harmonised human biomonitoring in Europe: Activities towards an EU HBM framework. <i>International Journal of Hygiene and Environmental Health</i> , 2012, 215, 172-175.	4.3	68
17	Exposure determinants of cadmium in European mothers and their children. <i>Environmental Research</i> , 2015, 141, 69-76.	7.5	64
18	Urinary levels of eight phthalate metabolites and bisphenol A in motherâ€“child pairs from two Spanish locations. <i>International Journal of Hygiene and Environmental Health</i> , 2015, 218, 47-57.	4.3	64

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19	A systematic approach for designing a HBM Pilot Study for Europe. <i>International Journal of Hygiene and Environmental Health</i> , 2014, 217, 312-322.	4.3	61
20	HBM4EU combines and harmonises human biomonitoring data across the EU, building on existing capacity – The HBM4EU survey. <i>International Journal of Hygiene and Environmental Health</i> , 2021, 237, 113809.	4.3	61
21	Comparison of basal cytotoxicity data between mammalian and fish cell lines: A literature survey. <i>Toxicology in Vitro</i> , 2005, 19, 695-705.	2.4	60
22	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. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2004, 552, 141-151.	1.0	59
23	Detection of mitomycin C-induced genetic damage in fish cells by use of RAPD. <i>Mutagenesis</i> , 1999, 14, 449-456.	2.6	56
24	MEIC Evaluation of Acute Systemic Toxicity. <i>ATLA Alternatives To Laboratory Animals</i> , 1998, 26, 131-183.	1.0	54
25	Setting up a collaborative European human biological monitoring study on occupational exposure to hexavalent chromium. <i>Environmental Research</i> , 2019, 177, 108583.	7.5	53
26	Blood lead levels in a representative sample of the Spanish adult population: The BIOAMBIENT.ES project. <i>International Journal of Hygiene and Environmental Health</i> , 2014, 217, 452-459.	4.3	50
27	Human biomonitoring pilot study DEMOCOPHES in Germany: Contribution to a harmonized European approach. <i>International Journal of Hygiene and Environmental Health</i> , 2017, 220, 686-696.	4.3	50
28	Urinary polycyclic aromatic hydrocarbon metabolites levels in a representative sample of the Spanish adult population: The BIOAMBIENT.ES project. <i>Chemosphere</i> , 2015, 135, 436-446.	8.2	45
29	Mercury analysis in hair: Comparability and quality assessment within the transnational COPHES/DEMOCOPHES project. <i>Environmental Research</i> , 2015, 141, 24-30.	7.5	44
30	Perfluorinated alkyl substances in Spanish adults: Geographical distribution and determinants of exposure. <i>Science of the Total Environment</i> , 2017, 603-604, 352-360.	8.0	43
31	BIOAMBIENT.ES study protocol: rationale and design of a cross-sectional human biomonitoring survey in Spain. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1193-1202.	5.3	42
32	Differential contribution of animal and vegetable food items on persistent organic pollutant serum concentrations in Spanish adults. Data from BIOAMBIENT.ES project. <i>Science of the Total Environment</i> , 2018, 634, 235-242.	8.0	41
33	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. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 136, 116201.	11.4	41
34	Hair mercury and urinary cadmium levels in Belgian children and their mothers within the framework of the COPHES/DEMOCOPHES projects. <i>Science of the Total Environment</i> , 2014, 472, 730-740.	8.0	40
35	Mothers and children are related, even in exposure to chemicals present in common consumer products. <i>Environmental Research</i> , 2019, 175, 297-307.	7.5	40
36	Associations of multiple exposures to persistent toxic substances with the risk of hyperuricemia and subclinical uric acid levels in BIOAMBIENT.ES study. <i>Environment International</i> , 2019, 123, 512-521.	10.0	36

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37	Harmonization of Human Biomonitoring Studies in Europe: Characteristics of the HBM4EU-Aligned Studies Participants. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 6787.	2.6	36
38	Biological alternatives to chemical identification for the ecotoxicological assessment of industrial effluents: The RTG-2 in vitro cytotoxicity test. <i>Environmental Toxicology and Chemistry</i> , 1994, 13, 1607-1611.	4.3	34
39	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. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2000, 465, 113-122.	1.7	34
40	Cytotoxicity and genotoxicity of sewage treatment plant effluents in rainbow trout cells (RTG-2). <i>Water Research</i> , 2012, 46, 6351-6358.	11.3	33
41	A pilot study on the feasibility of European harmonized human biomonitoring: Strategies towards a common approach, challenges and opportunities. <i>Environmental Research</i> , 2015, 141, 3-14.	7.5	33
42	HBM4EU chromates study - Overall results and recommendations for the biomonitoring of occupational exposure to hexavalent chromium. <i>Environmental Research</i> , 2022, 204, 111984.	7.5	32
43	Urinary Phthalate Concentrations in Mothers and Their Children in Ireland: Results of the DEMOCOPHES Human Biomonitoring Study. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1456.	2.6	31
44	Urinary cotinine levels and environmental tobacco smoke in mothers and children of Romania, Portugal and Poland within the European human biomonitoring pilot study. <i>Environmental Research</i> , 2015, 141, 106-117.	7.5	30
45	Biological and chemical tools in the toxicological risk assessment of Jarama River, Madrid, Spain. <i>Environmental Pollution</i> , 1996, 93, 135-139.	7.5	29
46	Sublethal Effects of Repeated Intraperitoneal Cadmium Injections on Rainbow Trout ( <i>Oncorhynchus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 8.0	8.0	28
47	Cadmium levels in a representative sample of the Spanish adult population: The BIOAMBIENT.ES project. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2016, 26, 471-480.	3.9	28
48	ATP assay on cell monolayers as an index of cytotoxicity. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1994, 53, 309-16.	2.7	26
49	Detection of cytogenetic alterations and blood cell changes in natural populations of carp. <i>Ecotoxicology</i> , 2002, 11, 27-34.	2.4	26
50	Anti-smoking legislation and its effects on urinary cotinine and cadmium levels. <i>Environmental Research</i> , 2015, 136, 227-233.	7.5	25
51	Case study: Possible differences in phthalates exposure among the Czech, Hungarian, and Slovak populations identified based on the DEMOCOPHES pilot study results. <i>Environmental Research</i> , 2015, 141, 118-124.	7.5	25
52	Communication in a Human biomonitoring study: Focus group work, public engagement and lessons learnt in 17 European countries. <i>Environmental Research</i> , 2015, 141, 31-41.	7.5	25
53	Interpreting biomarker data from the COPHES/DEMOCOPHES twin projects: Using external exposure data to understand biomarker differences among countries. <i>Environmental Research</i> , 2015, 141, 86-95.	7.5	25
54	Mercury levels in blood, urine and hair in a nation-wide sample of Spanish adults. <i>Science of the Total Environment</i> , 2019, 670, 262-270.	8.0	25

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55	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.	2.7	24
56	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.	8.0	23
57	Toxicity identification evaluations for the investigation of fish kills: A case study. Chemosphere, 1994, 29, 55-61.	8.2	22
58	The use of alternative systems for the ecotoxicological screening of complex mixtures on fish populations. Science of the Total Environment, 2000, 247, 337-348.	8.0	20
59	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.	4.3	20
60	Characterization of RTG-2 Fish Cell Line by Random Amplified Polymorphic DNA. Ecotoxicology and Environmental Safety, 1998, 40, 56-64.	6.0	19
61	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.	4.3	19
62	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.	4.1	18
63	Genotoxic effects of selected biocides on RTG-2 fish cells by means of a modified Fast Micromethod Assay. Aquatic Toxicology, 2005, 73, 55-64.	4.0	18
64	Lessons learnt on recruitment and fieldwork from a pilot European human biomonitoring survey. Environmental Research, 2015, 141, 15-23.	7.5	18
65	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.	5.3	18
66	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.	7.5	15
67	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.	8.0	14
68	Policy recommendations and cost implications for a more sustainable framework for European human biomonitoring surveys. Environmental Research, 2015, 141, 42-57.	7.5	14
69	Personal care product use and lifestyle affect phthalate and DINCH metabolite levels in teenagers and young adults. Environmental Research, 2022, 213, 113675.	7.5	14
70	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.	3.7	13
71	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.	7.5	13
72	Proficiency and Interlaboratory Variability in the Determination of Phthalate and DINCH Biomarkers in Human Urine: Results from the HBM4EU Project. Toxics, 2022, 10, 57.	3.7	13

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73	DNA fingerprint comparison of rainbow trout and RTG-2 cell line using random amplified polymorphic DNA. <i>Ecotoxicology</i> , 2001, 10, 115-124.	2.4	12
74	A Phased Approach for preparation and organization of human biomonitoring studies. <i>International Journal of Hygiene and Environmental Health</i> , 2021, 232, 113684.	4.3	12
75	Selecting the best non-invasive matrix to measure mercury exposure in human biomonitoring surveys. <i>Environmental Research</i> , 2022, 204, 112394.	7.5	11
76	Assessing organic toxic pollutants in fish-canning factory effluents using cultured fish cells. <i>Ecotoxicology</i> , 1994, 3, 79-88.	2.4	10
77	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. <i>Environmental Research</i> , 2022, 210, 112933.	7.5	10
78	Assessment of genotoxic effects induced by selected pesticides on RTG-2 fish cells by means of a modified fast micromethod assay. <i>Environmental Toxicology</i> , 2012, 27, 238-243.	4.0	9
79	Critical review of analytical methods for the determination of flame retardants in human matrices. <i>Analytica Chimica Acta</i> , 2022, 1193, 338828.	5.4	9
80	Improving the Risk Assessment of Pesticides through the Integration of Human Biomonitoring and Food Monitoring Data: A Case Study for Chlorpyrifos. <i>Toxics</i> , 2022, 10, 313.	3.7	9
81	Detection of organic toxic pollutants in water and waste-water by liquid chromatography and in vitro cytotoxicity tests. <i>Analytica Chimica Acta</i> , 1990, 234, 193-197.	5.4	8
82	Risk of overestimation of urinary cadmium concentrations: interference from molybdenum. <i>E3S Web of Conferences</i> , 2013, 1, 21003.	0.5	8
83	Mercury Exposure in Ireland: Results of the DEMOCOPHES Human Biomonitoring Study. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 9760-9775.	2.6	8
84	Interlaboratory Comparison Investigations (ICIs) for human biomonitoring of chromium as part of the quality assurance programme under HBM4EU. <i>Journal of Trace Elements in Medicine and Biology</i> , 2022, 70, 126912.	3.0	7
85	DETECTION BY RAPD OF GENETIC ALTERATIONS IN VITRO: AMPLIFICATION AND CONSERVATION CONDITIONS OF DNA EXTRACTS. <i>Toxicology Mechanisms and Methods</i> , 2002, 12, 155-167.	2.7	4
86	Cytotoxicity of Leather Processing Effluents on the RTG-2 Fish Cell Line. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2005, 75, 34-41.	2.7	4
87	Exploring Exposure in 27 Countries in a European Human Biomonitoring Studyâ€”Cophes. <i>Epidemiology</i> , 2011, 22, S230-S231.	2.7	4
88	High-performance liquid chromatography with diode-array detection cotinine method adapted for the assessment of tobacco smoke exposure. <i>Journal of Separation Science</i> , 2014, 37, 1404-1410.	2.5	4
89	Gender differences in cadmium and cotinine levels in prepubertal children. <i>Environmental Research</i> , 2015, 141, 125-131.	7.5	4
90	Protein Precipitation In Vitro as a Measure of Chemical-induced Cytotoxicity: An EDIT Sub-programme. <i>ATLA Alternatives To Laboratory Animals</i> , 2001, 29, 309-324.	1.0	3

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91	Two years of a biomonitoring study of mercury in human hair and urine, Madrid (Spain). <i>Toxicology Letters</i> , 2010, 196, S39-S40.	0.8	3
92	A National Human Biomonitoring Program on POPs and Heavy Metals in Spain. <i>Epidemiology</i> , 2009, 20, S243.	2.7	3
93	Interlaboratory Comparison Investigations (Ici) and External Quality Assurance Schemes (Equas) for Human Biomonitoring of Perfluoroalkyl Substances (Pfass) in Serum as Part of the Quality Assurance Programme Under Hbm4eu. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3
94	Kinetics of copper and nitrite in rainbow trout ( <i>Oncorhynchus mykiss</i> ): The isolated perfused head preparation as alternative to in vivo assays. <i>Toxicology in Vitro</i> , 1995, 9, 505-508.	2.4	2
95	Cytotoxic and genotoxic effect in RTG-2 cell line exposed to selected biocides used in the disinfection of cooling towers. <i>Ecotoxicology</i> , 2008, 17, 273-279.	2.4	2
96	Harmonized European human biomonitoring in small countries: Challenges, opportunities and lessons learned in Cyprus and Luxembourg from the DEMOCOPHES study. <i>Biomonitoring</i> , 2015, 2, .	1.0	2
97	Toxicology Review in Metal Nanoparticles: Approximation in Gold and Cobalt Ferrite Nanoparticles. <i>Advanced Science Letters</i> , 2012, 6, 1-16.	0.2	2
98	P XIII.92 In vitro induction of micronuclei by benzo (a) pyrene on fish cell lines and detection by flow cytometry. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1997, 379, S115.	1.0	1
99	Challenges to Evidence Synthesis and Identification of Data Gaps in Human Biomonitoring. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2830.	2.6	0
100	Testing in Aquatic Ecotoxicology: What Are the Scientific Conditions for the "3R" Concept?. , 2010, , 99-119.		0