

# Cristina Postigo

## List of Publications by Year in descending order

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86  
papers

5,236  
citations

71102

41  
h-index

85541

71  
g-index

90  
all docs

90  
docs citations

90  
times ranked

5337  
citing authors

#	ARTICLE	IF	CITATIONS
1	Illicit drug consumption estimations derived from wastewater analysis: A critical review. <i>Science of the Total Environment</i> , 2011, 409, 3564-3577.	8.0	335
2	Drugs of abuse and their metabolites in the Ebro River basin: Occurrence in sewage and surface water, sewage treatment plants removal efficiency, and collective drug usage estimation. <i>Environment International</i> , 2010, 36, 75-84.	10.0	282
3	Study of pharmaceuticals in surface and wastewater from Cuernavaca, Morelos, Mexico: Occurrence and environmental risk assessment. <i>Science of the Total Environment</i> , 2018, 613-614, 1263-1274.	8.0	263
4	Recent trends in the liquid chromatography-mass spectrometry analysis of organic contaminants in environmental samples. <i>Journal of Chromatography A</i> , 2010, 1217, 4004-4017.	3.7	216
5	Fully Automated Determination in the Low Nanogram per Liter Level of Different Classes of Drugs of Abuse in Sewage Water by On-Line Solid-Phase Extraction-Liquid Chromatography-Electrospray-Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 3123-3134.	6.5	199
6	Transformation of pharmaceuticals during oxidation/disinfection processes in drinking water treatment. <i>Journal of Hazardous Materials</i> , 2014, 279, 461-475.	12.4	197
7	Synthetic organic compounds and their transformation products in groundwater: Occurrence, fate and mitigation. <i>Science of the Total Environment</i> , 2015, 503-504, 32-47.	8.0	176
8	Occurrence and Comparative Toxicity of Haloacetaldehyde Disinfection Byproducts in Drinking Water. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13749-13759.	10.0	167
9	Spatio-temporal assessment of illicit drug use at large scale: evidence from 7 years of international wastewater monitoring. <i>Addiction</i> , 2020, 115, 109-120.	3.3	154
10	Analysis of selected emerging contaminants in sewage sludge. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 1263-1275.	11.4	153
11	Fate and removal of pharmaceuticals and illicit drugs in conventional and membrane bioreactor wastewater treatment plants and by riverbank filtration. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 3979-4003.	3.4	140
12	Primary and complex stressors in polluted mediterranean rivers: Pesticide effects on biological communities. <i>Journal of Hydrology</i> , 2010, 383, 52-61.	5.4	138
13	Evaluation of drugs of abuse use and trends in a prison through wastewater analysis. <i>Environment International</i> , 2011, 37, 49-55.	10.0	135
14	Analysis of drugs of abuse and their human metabolites in water by LC-MS2: A non-intrusive tool for drug abuse estimation at the community level. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 1053-1069.	11.4	120
15	Removal of estrogens through water disinfection processes and formation of by-products. <i>Chemosphere</i> , 2011, 82, 789-799.	8.2	99
16	Analysis and occurrence of selected medium to highly polar pesticides in groundwater of Catalonia (NE Spain): An approach based on on-line solid phase extraction-liquid chromatography-electrospray-tandem mass spectrometry detection. <i>Journal of Hydrology</i> , 2010, 383, 83-92.	5.4	98
17	Analysis of 52 pesticides in fresh fish muscle by QuEChERS extraction followed by LC-MS/MS determination. <i>Science of the Total Environment</i> , 2019, 653, 958-967.	8.0	92
18	Fully Automated Analysis of $\beta$ -Lactams in Bovine Milk by Online Solid Phase Extraction-Liquid Chromatography-Electrospray-Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 4285-4295.	6.5	91

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19	Four-year advanced monitoring program of polar pesticides in groundwater of Catalonia (NE-Spain). <i>Science of the Total Environment</i> , 2014, 470-471, 1087-1098.	8.0	86
20	Five-year monitoring of 19 illicit and legal substances of abuse at the inlet of a wastewater treatment plant in Barcelona (NE Spain) and estimation of drug consumption patterns and trends. <i>Science of the Total Environment</i> , 2017, 609, 916-926.	8.0	84
21	Wastewater reuse in Mediterranean semi-arid areas: The impact of discharges of tertiary treated sewage on the load of polar micro pollutants in the Llobregat river (NE Spain). <i>Chemosphere</i> , 2011, 82, 670-678.	8.2	80
22	Drugs of abuse in surface and tap waters of the Tagus River basin: Heterogeneous photo-Fenton process is effective in their degradation. <i>Environment International</i> , 2012, 41, 35-43.	10.0	76
23	Drinking Water Disinfection By-products. <i>Handbook of Environmental Chemistry</i> , 2011, , 93-137.	0.4	75
24	Drugs of abuse in urban groundwater. A case study: Barcelona. <i>Science of the Total Environment</i> , 2012, 424, 280-288.	8.0	66
25	Determination of Drugs of Abuse in Airborne Particles by Pressurized Liquid Extraction and Liquid Chromatography-Electrospray-Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 4382-4388.	6.5	65
26	Analysis and occurrence of alkylphenolic compounds and estrogens in a European river basin and an evaluation of their importance as priority pollutants. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 1301-1309.	3.7	65
27	Psychoactive pharmaceuticals and illicit drugs in coastal waters of North-Western Spain: Environmental exposure and risk assessment. <i>Chemosphere</i> , 2019, 224, 379-389.	8.2	63
28	Characterization of iodinated disinfection by-products in chlorinated and chloraminated waters using Orbitrap based gas chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3401-3411.	3.7	60
29	Evaluation of the occurrence and fate of pesticides in a typical Mediterranean delta ecosystem (Ebro) Tj ETQq1 1 0.784314 rgBT /Overlo	7.5	58
30	Chemical characterization and relative toxicity assessment of disinfection byproduct mixtures in a large drinking water supply network. <i>Journal of Hazardous Materials</i> , 2018, 359, 166-173.	12.4	55
31	Assessing the effects of tertiary treated wastewater reuse on the presence emerging contaminants in a Mediterranean river (Llobregat, NE Spain). <i>Environmental Science and Pollution Research</i> , 2012, 19, 1000-1012.	5.3	51
32	Microalgae-based bioremediation of water contaminated by pesticides in peri-urban agricultural areas. <i>Environmental Pollution</i> , 2020, 265, 114579.	7.5	51
33	Illicit and abused drugs in sewage sludge: Method optimization and occurrence. <i>Journal of Chromatography A</i> , 2013, 1322, 29-37.	3.7	49
34	Transformation of acesulfame in chlorination: Kinetics study, identification of byproducts, and toxicity assessment. <i>Water Research</i> , 2017, 117, 157-166.	11.3	49
35	Medium to highly polar pesticides in seawater: Analysis and fate in coastal areas of Catalonia (NE) Tj ETQq1 1 0.784314 rgBT /Overlo	8.2	49
36	Formation of DBPs: State of the Science. <i>ACS Symposium Series</i> , 2015, , 189-214.	0.5	48

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37	Are pharmaceuticals more harmful than other pollutants to aquatic invertebrate species: A hypothesis tested using multi-biomarker and multi-species responses in field collected and transplanted organisms. <i>Chemosphere</i> , 2011, 85, 1548-1554.	8.2	46
38	What's in the water? " Target and suspect screening of contaminants of emerging concern in raw water and drinking water from Europe and Asia. <i>Water Research</i> , 2021, 198, 117099.	11.3	46
39	Chlorination of Source Water Containing Iodinated X-ray Contrast Media: Mutagenicity and Identification of New Iodinated Disinfection Byproducts. <i>Environmental Science &amp; Technology</i> , 2018, 52, 13047-13056.	10.0	45
40	Formation of iodo-trihalomethanes, iodo-haloacetic acids, and haloacetaldehydes during chlorination and chloramination of iodine containing waters in laboratory controlled reactions. <i>Journal of Environmental Sciences</i> , 2017, 58, 127-134.	6.1	44
41	A fully automated approach for the analysis of 37 psychoactive substances in raw wastewater based on on-line solid phase extraction-liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1576, 80-89.	3.7	43
42	Unraveling the chemodiversity of halogenated disinfection by-products formed during drinking water treatment using target and non-target screening tools. <i>Journal of Hazardous Materials</i> , 2021, 401, 123681.	12.4	40
43	Drugs of abuse in airborne particulates in urban environments. <i>Environment International</i> , 2010, 36, 527-534.	10.0	39
44	Solar transformation and photocatalytic treatment of cocaine in water: Kinetics, characterization of major intermediate products and toxicity evaluation. <i>Applied Catalysis B: Environmental</i> , 2011, 104, 37-48.	20.2	39
45	Assessing population exposure to phthalate plasticizers in thirteen Spanish cities through the analysis of wastewater. <i>Journal of Hazardous Materials</i> , 2021, 401, 123272.	12.4	39
46	Investigative monitoring of pesticide and nitrogen pollution sources in a complex multi-stressed catchment: The lower Llobregat River basin case study (Barcelona, Spain). <i>Science of the Total Environment</i> , 2021, 755, 142377.	8.0	37
47	Development and validation of an analytical method based on liquid chromatography-tandem mass spectrometry detection for the simultaneous determination of 13 relevant wastewater-derived contaminants in lettuce. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5375-5387.	3.7	36
48	Simultaneous LC-MS/MS determination of 40 legal and illegal psychoactive drugs in breast and bovine milk. <i>Food Chemistry</i> , 2018, 245, 159-167.	8.2	34
49	Cocaine and other illicit drugs in airborne particulates in urban environments: A reflection of social conduct and population size. <i>Environmental Pollution</i> , 2011, 159, 1241-1247.	7.5	33
50	Boosting pharmaceutical removal through aeration in constructed wetlands. <i>Journal of Hazardous Materials</i> , 2021, 412, 125231.	12.4	33
51	The embodiment of wastewater data for the estimation of illicit drug consumption in Spain. <i>Science of the Total Environment</i> , 2021, 772, 144794.	8.0	31
52	Assessing alcohol consumption through wastewater-based epidemiology: Spain as a case study. <i>Drug and Alcohol Dependence</i> , 2020, 215, 108241.	3.2	30
53	Fungal degradation of selected medium to highly polar pesticides by <i>Trametes versicolor</i> : kinetics, biodegradation pathways, and ecotoxicity of treated waters. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 439-449.	3.7	29
54	Psychoactive substances in mussels: Analysis and occurrence assessment. <i>Marine Pollution Bulletin</i> , 2019, 146, 985-992.	5.0	27

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55	A reliable LC-MS/MS-based method for trace level determination of 50 medium to highly polar pesticide residues in sediments and ecological risk assessment. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 7981-7996.	3.7	27
56	Contaminants of emerging concern in the Basque coast (N Spain): Occurrence and risk assessment for a better monitoring and management decisions. <i>Science of the Total Environment</i> , 2021, 765, 142765.	8.0	27
57	Photolytic and photocatalytic transformation of methadone in aqueous solutions under solar irradiation: Kinetics, characterization of major intermediate products and toxicity evaluation. <i>Water Research</i> , 2011, 45, 4815-4826.	11.3	26
58	Fungal bioremediation of diuron-contaminated waters: Evaluation of its degradation and the effect of amendable factors on its removal in a trickle-bed reactor under non-sterile conditions. <i>Science of the Total Environment</i> , 2020, 743, 140628.	8.0	26
59	First nation-wide estimation of tobacco consumption in Spain using wastewater-based epidemiology. <i>Science of the Total Environment</i> , 2020, 741, 140384.	8.0	24
60	Iodinated disinfection byproducts: Formation and concerns. <i>Current Opinion in Environmental Science and Health</i> , 2019, 7, 19-25.	4.1	21
61	Comprehensive monitoring of the occurrence of 22 drugs of abuse and transformation products in airborne particulate matter in the city of Barcelona. <i>Science of the Total Environment</i> , 2015, 532, 344-352.	8.0	19
62	Analysis and fate of 14 relevant wastewater-derived organic pollutants in long-term exposed soil. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2687-2696.	3.7	18
63	Improved fully automated method for the determination of medium to highly polar pesticides in surface and groundwater and application in two distinct agriculture-impacted areas.. <i>Science of the Total Environment</i> , 2020, 745, 140650.	8.0	16
64	Drugs of abuse and their metabolites in river sediments: Analysis, occurrence in four Spanish river basins and environmental risk assessment. <i>Journal of Hazardous Materials</i> , 2021, 401, 123312.	12.4	16
65	Groundwater Pollution: Sources, Mechanisms, and Prevention. , 2018, , 87-96.		15
66	A step forward in the detection of byproducts of anthropogenic organic micropollutants in chlorinated water. <i>Trends in Environmental Analytical Chemistry</i> , 2021, 32, e00148.	10.3	15
67	QuEChERS-based analytical methods developed for LC-MS/MS multiresidue determination of pesticides in representative crop fatty matrices: Olives and sunflower seeds. <i>Food Chemistry</i> , 2022, 386, 132558.	8.2	15
68	Liquid Chromatography–Mass Spectrometry of Emerging Disinfection By-products. <i>Comprehensive Analytical Chemistry</i> , 2018, 79, 267-295.	1.3	14
69	A new technique helps to uncover unknown peptides and disinfection by-products in water. <i>Journal of Environmental Sciences</i> , 2016, 42, 6-8.	6.1	13
70	The value of wastewater-based epidemiology in the estimation of alcohol consumption. <i>Current Opinion in Environmental Science and Health</i> , 2019, 9, 19-25.	4.1	13
71	Remediation of bentazone contaminated water by <i>Trametes versicolor</i> : Characterization, identification of transformation products, and implementation in a trickle-bed reactor under non-sterile conditions. <i>Journal of Hazardous Materials</i> , 2021, 409, 124476.	12.4	11
72	Evaluation of an outdoor pilot-scale tubular photobioreactor for removal of selected pesticides from water. <i>Science of the Total Environment</i> , 2022, 804, 150040.	8.0	8

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73	High-throughput and reliable determination of 13 haloacetic acids and dalapon in water and evaluation of control strategies. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2499-2509.	2.4	7
74	Analysis, Occurrence, and Toxicity of Haloacetaldehydes in Drinking Waters: Iodoacetaldehyde as an Emerging Disinfection By-Product. <i>ACS Symposium Series</i> , 2015, , 25-43.	0.5	6
75	Emerging Contaminants in Waste Waters: Sources and Occurrence. , 2008, , 1-35.		5
76	Analysis of Psychoactive Pharmaceuticals in Wastewater and Surface Water Using LC-MS. <i>Comprehensive Analytical Chemistry</i> , 2018, 79, 29-52.	1.3	5
77	Safe Drinking Water? Effect of Wastewater Inputs and Source Water Impairment and Implications for Water Reuse. <i>Handbook of Environmental Chemistry</i> , 2015, , 155-182.	0.4	4
78	Liquid Chromatography–Mass Spectrometry Methods for Analysis of Endocrine-Disrupting Chemicals in Wastewaters. <i>Handbook of Environmental Chemistry</i> , 2009, , 227-271.	0.4	4
79	Occurrence and Fate of Pharmaceuticals and Illicit Drugs Under Water Scarcity. <i>Handbook of Environmental Chemistry</i> , 2009, , 197-228.	0.4	3
80	Wastewater Reuse in the Mediterranean Area of Catalonia, Spain: Case Study of Reuse of Tertiary Effluent from a Wastewater Treatment Plant at el Prat de Llobregat (Barcelona). <i>Handbook of Environmental Chemistry</i> , 2010, , 249-294.	0.4	3
81	Illicit Drugs and Metabolites in the Llobregat River Basin. <i>Handbook of Environmental Chemistry</i> , 2012, , 239-261.	0.4	3
82	Non-target screening and novel methods based on mass spectrometry detection for identification of unknown disinfection byproducts. <i>Comprehensive Analytical Chemistry</i> , 2021, , 1-29.	1.3	3
83	High-throughput analysis of the steroid profile in placental cell cultures to evaluate endocrine disrupting effects of contaminant exposure. <i>Journal of Chromatography A</i> , 2022, 1667, 462886.	3.7	3
84	Illicit Drugs Along the Ebro River Basin: Occurrence in Surface and Wastewater and Derived Consumption Estimations. <i>Handbook of Environmental Chemistry</i> , 2010, , 189-208.	0.4	2
85	Wastewater Reuse in the Llobregat: The Experience at the Prat de Llobregat Treatment Plant. <i>Handbook of Environmental Chemistry</i> , 2012, , 327-346.	0.4	2
86	Occurrence of Polar Organic Pollutants in Groundwater Bodies of Catalonia. <i>Handbook of Environmental Chemistry</i> , 2015, , 63-89.	0.4	1