Meritxell Gros

List of Publications by Citations

62 papers	7,870 citations	41 h-index	62 g-index
62 ext. papers	8,733 ext. citations	7.4 avg, IF	6.11 L-index

#	Paper	IF	Citations
62	Occurrence of antibiotics and antibiotic resistance genes in hospital and urban wastewaters and their impact on the receiving river. *Water Research*, **2015**, 69, 234-242	12.5	844
61	Occurrence, partition and removal of pharmaceuticals in sewage water and sludge during wastewater treatment. *Water Research*, **2011**, 45, 1165-76	12.5	679
60	Removal of pharmaceuticals during wastewater treatment and environmental risk assessment using hazard indexes. *Environment International*, **2010**, 36, 15-26	12.9	657
59	Development of a multi-residue analytical methodology based on liquid chromatography-tandem mass spectrometry (LC-MS/MS) for screening and trace level determination of pharmaceuticals in surface and wastewaters. *Talanta*, **2006**, 70, 678-90	6.2	570
58	Fast and comprehensive multi-residue analysis of a broad range of human and veterinary pharmaceuticals and some of their metabolites in surface and treated waters by ultra-high-performance liquid chromatography coupled to quadrupole-linear ion trap tandem mass spectrometry. *Journal of Chromatography A*, **2012**, 1240, 101-21	4.5	401
57	Contribution of hospital effluents to the load of pharmaceuticals in urban wastewaters: identification of ecologically relevant pharmaceuticals. *Science of the Total Environment*, **2013**, 461-462, 302-16	10.2	358
56	Wastewater treatment plants as a pathway for aquatic contamination by pharmaceuticals in the ebro river basin (northeast Spain). *Environmental Toxicology and Chemistry*, **2007**, 26, 1553-62	3.8	286
55	Tracing pharmaceutical residues of different therapeutic classes in environmental waters by using liquid chromatography/quadrupole-linear ion trap mass spectrometry and automated library searching. *Analytical Chemistry*, **2009**, 81, 898-912	7.8	269
54	Rapid analysis of multiclass antibiotic residues and some of their metabolites in hospital, urban wastewater and river water by ultra-high-performance liquid chromatography coupled to quadrupole-linear ion trap tandem mass spectrometry. *Journal of Chromatography A*, **2013**, 1292, 173-88	4.5	252
53	Multi-residue analysis of pharmaceuticals in wastewater by ultra-performance liquid chromatography-quadrupole-time-of-flight mass spectrometry. *Journal of Chromatography A*, **2006**, 1124, 68-81	4.5	247
52	Occurrence and fate of emerging wastewater contaminants in Western Balkan Region. *Science of the Total Environment*, **2008**, 399, 66-77	10.2	227
51	Exploring the links between antibiotic occurrence, antibiotic resistance, and bacterial communities in water supply reservoirs. *Science of the Total Environment*, **2013**, 456-457, 161-70	10.2	221
50	Removal of emerging contaminants from municipal wastewater with an integrated membrane system, MBR-RO. *Journal of Hazardous Materials*, **2012**, 239-240, 64-9	12.8	191
49	Recent trends in the liquid chromatography-mass spectrometry analysis of organic contaminants in environmental samples. *Journal of Chromatography A*, **2010**, 1217, 4004-17	4.5	187
48	Multi-residue analytical methods using LC-tandem MS for the determination of pharmaceuticals in environmental and wastewater samples: a review. *Analytical and Bioanalytical Chemistry*, **2006**, 386, 941-52	4.4	181
47	Seasonal distribution of pharmaceuticals in marine water and sediment from a Mediterranean coastal lagoon (SE Spain). *Environmental Research*, **2015**, 138, 326-44	7.9	151
46	Chronic impact of tetracycline on the biodegradation of an organic substrate mixture under anaerobic conditions. *Water Research*, **2013**, 47, 2959-69	12.5	145

45	Comprehensive study of ibuprofen and its metabolites in activated sludge batch experiments and aquatic environment. *Science of the Total Environment*, **2012**, 438, 404-13	10.2	135
44	Analysis of multi-class pharmaceuticals in fish tissues by ultra-high-performance liquid chromatography tandem mass spectrometry. *Journal of Chromatography A*, **2013**, 1288, 63-72	4.5	134
43	Fate and removal of pharmaceuticals and illicit drugs in conventional and membrane bioreactor wastewater treatment plants and by riverbank filtration. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2009**, 367, 3979-4003	3	126
42	Advanced monitoring of pharmaceuticals and estrogens in the Llobregat River basin (Spain) by liquid chromatography-triple quadrupole-tandem mass spectrometry in combination with ultra performance liquid chromatography-time of flight-mass spectrometry. *Chemosphere*, **2010**, 80, 1337-44	8.4	95
41	Prioritization of chemicals in the aquatic environment based on risk assessment: analytical, modeling and regulatory perspective. *Science of the Total Environment*, **2012**, 440, 236-52	10.2	87
40	Input of pharmaceuticals through coastal surface watercourses into a Mediterranean lagoon (Mar Menor, SE Spain): sources and seasonal variations. *Science of the Total Environment*, **2014**, 490, 59-72	10.2	85
39	Trace level determination of beta-blockers in waste waters by highly selective molecularly imprinted polymers extraction followed by liquid chromatography-quadrupole-linear ion trap mass spectrometry. *Journal of Chromatography A*, **2008**, 1189, 374-84	4.5	85
38	Critical review: Grand challenges in assessing the adverse effects of contaminants of emerging concern on aquatic food webs. *Environmental Toxicology and Chemistry*, **2019**, 38, 46-60	3.8	81
37	Pharmaceuticals as chemical markers of wastewater contamination in the vulnerable area of the Ebro Delta (Spain). *Science of the Total Environment*, **2019**, 652, 952-963	10.2	80
36	Non-target screening and prioritization of potentially persistent, bioaccumulating and toxic domestic wastewater contaminants and their removal in on-site and large-scale sewage treatment plants. *Science of the Total Environment*, **2017**, 575, 265-275	10.2	78
35	Biodegradation of the X-ray contrast agent iopromide and the fluoroquinolone antibiotic ofloxacin by the white rot fungus Trametes versicolor in hospital wastewaters and identification of degradation products. *Water Research*, **2014**, 60, 228-241	12.5	76
34	Identification of some factors affecting pharmaceutical active compounds (PhACs) removal in real wastewater. Case study of fungal treatment of reverse osmosis concentrate. *Journal of Hazardous Materials*, **2015**, 283, 663-71	12.8	69
33	Impact of on-site, small and large scale wastewater treatment facilities on levels and fate of pharmaceuticals, personal care products, artificial sweeteners, pesticides, and perfluoroalkyl substances in recipient waters. *Science of the Total Environment*, **2017**, 601-602, 1289-1297	10.2	67
32	Analysis of biologically active compounds in water by ultra-performance liquid chromatography quadrupole time-of-flight mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2008**, 22, 41-51	2.2	64
31	Screening and prioritization of micropollutants in wastewaters from on-site sewage treatment facilities. *Journal of Hazardous Materials*, **2017**, 328, 37-45	12.8	63
30	Biodegradation and reversible inhibitory impact of sulfamethoxazole on the utilization of volatile fatty acids during anaerobic treatment of pharmaceutical industry wastewater. *Science of the Total Environment*, **2015**, 536, 667-674	10.2	60
29	Veterinary pharmaceuticals and antibiotics in manure and slurry and their fate in amended agricultural soils: Findings from an experimental field site (Baix Empord□NE Catalonia). *Science of the Total Environment*, **2019**, 654, 1337-1349	10.2	57
28	First interlaboratory exercise on non-steroidal anti-inflammatory drugs analysis in environmental samples. *Talanta*, **2008**, 76, 580-90	6.2	53

27	Analysis of anthelmintics in surface water by ultra high performance liquid chromatography coupled to quadrupole linear ion trap tandem mass spectrometry. *Chemosphere*, **2014**, 99, 224-32	8.4	50
26	Trace analysis of antidepressants in environmental waters by molecularly imprinted polymer-based solid-phase extraction followed by ultra-performance liquid chromatography coupled to triple quadrupole mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 825-37	4.4	49
25	Existence of Pharmaceutical Compounds in Tertiary Treated Urban Wastewater that is Utilized for Reuse Applications. *Water Resources Management*, **2011**, 25, 1183-1193	3.7	48
24	Occurrence and Elimination of Pharmaceuticals During Conventional Wastewater Treatment. *Handbook of Environmental Chemistry*, **2012**, 1-23	0.8	46
23	Potential of biochar filters for onsite sewage treatment: Adsorption and biological degradation of pharmaceuticals in laboratory filters with active, inactive and no biofilm. *Science of the Total Environment*, **2018**, 612, 192-201	10.2	45
22	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. *Chemosphere*, **2011**, 85, 1548-54	8.4	41
21	Fate of pharmaceuticals and antibiotic resistance genes in a full-scale on-farm livestock waste treatment plant. *Journal of Hazardous Materials*, **2019**, 378, 120716	12.8	32
20	Sample preservation for the analysis of antibiotics in water. *Journal of Chromatography A*, **2014**, 1369, 43-51	4.5	29
19	Extended suspect screening to identify contaminants of emerging concern in riverine and coastal ecosystems and assessment of environmental risks. *Journal of Hazardous Materials*, **2021**, 404, 124102	12.8	25
18	Occurrence and assessment of environmental risks of endocrine disrupting compounds in drinking, surface and wastewaters in Serbia. *Environmental Pollution*, **2020**, 262, 114344	9.3	23
17	Simplified procedures for the analysis of polycyclic aromatic hydrocarbons in water, sediments and mussels. *Journal of Chromatography A*, **2004**, 1047, 181-188	4.5	23
16	Effects of biopellets composed of microalgae and fungi on pharmaceuticals present at environmentally relevant levels in water. *Ecological Engineering*, **2016**, 91, 169-172	3.9	17
15	Photolysis of the antidepressants amisulpride and desipramine in wastewaters: Identification of transformation products formed and their fate. *Science of the Total Environment*, **2015**, 530-531, 434-444	10.2	15
14	Pharmaceuticals in source separated sanitation systems: Fecal sludge and blackwater treatment. *Science of the Total Environment*, **2020**, 703, 135530	10.2	14
13	Groundwater antibiotic pollution and its relationship with dissolved organic matter: Identification and environmental implications. *Environmental Pollution*, **2021**, 289, 117927	9.3	10
12	Mass fluxes per capita of organic contaminants from on-site sewage treatment facilities. *Chemosphere*, **2018**, 201, 864-873	8.4	7
11	Analysis of Emerging Contaminants of Municipal and Industrial Origin. *Handbook of Environmental Chemistry*, **2008**, 37-104	0.8	7
10	Pharmaceuticals removal in an on-farm pig slurry treatment plant based on solid-liquid separation and nitrification-denitrification systems. *Waste Management*, **2020**, 102, 412-419	8.6	7

9	Identification of organic contaminants in vinasse and in soil and groundwater from fertigated sugarcane crop areas using target and suspect screening strategies. *Science of the Total Environment*, **2021**, 761, 143237	10.2	7
8	Sources, Occurrence, and Environmental Risk Assessment of Pharmaceuticals in the Ebro River Basin. *Handbook of Environmental Chemistry*, **2010**, 209-237	0.8	5
7	Chapter 2.4 Multi-residue analysis of pharmaceuticals using LC-tandem MS and LC-hybrid MS. *Comprehensive Analytical Chemistry*, **2007**, 50, 157-183	1.9	3
6	Occurrence and Fate of Pharmaceuticals and Illicit Drugs Under Water Scarcity. *Handbook of Environmental Chemistry*, **2009**, 197-228	0.8	2
5	Analysis of Emerging Contaminants of Municipal and Industrial Origin **2008**, 37-104		2
4	Emerging Contaminants in the Water-Sediment System: Case Studies of Pharmaceuticals and Brominated Flame Retardants in the Ebro River Basin. *Water Quality Measurements Series*,287-298		1
3	Pressurized Liquid Extraction (PLE) and QuEChERS evaluation for the analysis of antibiotics in agricultural soils. *MethodsX*, **2020**, 7, 101171	1.9	1
2	Occurrence of veterinary drugs and resistance genes during anaerobic digestion of poultry and cattle manures.. *Science of the Total Environment*, **2022**, 153477	10.2	0
1	Characterization of Environmental Exposure: Measuring Versus Modeling. *Handbook of Environmental Chemistry*, **2012**, 25-46	0.8	