

# Meritxell Gros

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

9,745  
citations

57758

44  
h-index

133252

59  
g-index

62  
all docs

62  
docs citations

62  
times ranked

9474  
citing authors

#	ARTICLE	IF	CITATIONS
1	Occurrence of veterinary drugs and resistance genes during anaerobic digestion of poultry and cattle manures. <i>Science of the Total Environment</i> , 2022, 822, 153477.	8.0	8
2	Extended suspect screening to identify contaminants of emerging concern in riverine and coastal ecosystems and assessment of environmental risks. <i>Journal of Hazardous Materials</i> , 2021, 404, 124102.	12.4	44
3	Identification of organic contaminants in vinasse and in soil and groundwater from fertigated sugarcane crop areas using target and suspect screening strategies. <i>Science of the Total Environment</i> , 2021, 761, 143237.	8.0	16
4	Groundwater antibiotic pollution and its relationship with dissolved organic matter: Identification and environmental implications. <i>Environmental Pollution</i> , 2021, 289, 117927.	7.5	28
5	Pharmaceuticals in source separated sanitation systems: Fecal sludge and blackwater treatment. <i>Science of the Total Environment</i> , 2020, 703, 135530.	8.0	24
6	Pharmaceuticals removal in an on-farm pig slurry treatment plant based on solid-liquid separation and nitrification-denitrification systems. <i>Waste Management</i> , 2020, 102, 412-419.	7.4	18
7	Pressurized Liquid Extraction (PLE) and QuEChERS evaluation for the analysis of antibiotics in agricultural soils. <i>MethodsX</i> , 2020, 7, 101171.	1.6	11
8	Occurrence and assessment of environmental risks of endocrine disrupting compounds in drinking, surface and wastewaters in Serbia. <i>Environmental Pollution</i> , 2020, 262, 114344.	7.5	55
9	Fate of pharmaceuticals and antibiotic resistance genes in a full-scale on-farm livestock waste treatment plant. <i>Journal of Hazardous Materials</i> , 2019, 378, 120716.	12.4	61
10	Pharmaceuticals as chemical markers of wastewater contamination in the vulnerable area of the Ebro Delta (Spain). <i>Science of the Total Environment</i> , 2019, 652, 952-963.	8.0	121
11	Critical review: Grand challenges in assessing the adverse effects of contaminants of emerging concern on aquatic food webs. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 46-60.	4.3	150
12	Veterinary pharmaceuticals and antibiotics in manure and slurry and their fate in amended agricultural soils: Findings from an experimental field site (Baix Empordà, NE Catalonia). <i>Science of the Total Environment</i> , 2019, 654, 1337-1349.	8.0	101
13	Mass fluxes per capita of organic contaminants from on-site sewage treatment facilities. <i>Chemosphere</i> , 2018, 201, 864-873.	8.2	9
14	Potential of biochar filters for onsite sewage treatment: Adsorption and biological degradation of pharmaceuticals in laboratory filters with active, inactive and no biofilm. <i>Science of the Total Environment</i> , 2018, 612, 192-201.	8.0	69
15	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. <i>Science of the Total Environment</i> , 2017, 601-602, 1289-1297.	8.0	94
16	Screening and prioritization of micropollutants in wastewaters from on-site sewage treatment facilities. <i>Journal of Hazardous Materials</i> , 2017, 328, 37-45.	12.4	79
17	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. <i>Science of the Total Environment</i> , 2017, 575, 265-275.	8.0	110
18	Effects of biopellets composed of microalgae and fungi on pharmaceuticals present at environmentally relevant levels in water. <i>Ecological Engineering</i> , 2016, 91, 169-172.	3.6	34

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19	Biodegradation and reversible inhibitory impact of sulfamethoxazole on the utilization of volatile fatty acids during anaerobic treatment of pharmaceutical industry wastewater. <i>Science of the Total Environment</i> , 2015, 536, 667-674.	8.0	85
20	Photolysis of the antidepressants amisulpride and desipramine in wastewaters: Identification of transformation products formed and their fate. <i>Science of the Total Environment</i> , 2015, 530-531, 434-444.	8.0	23
21	Seasonal distribution of pharmaceuticals in marine water and sediment from a mediterranean coastal lagoon (SE Spain). <i>Environmental Research</i> , 2015, 138, 326-344.	7.5	183
22	Occurrence of antibiotics and antibiotic resistance genes in hospital and urban wastewaters and their impact on the receiving river. <i>Water Research</i> , 2015, 69, 234-242.	11.3	1,187
23	Identification of some factors affecting pharmaceutical active compounds (PhACs) removal in real wastewater. Case study of fungal treatment of reverse osmosis concentrate. <i>Journal of Hazardous Materials</i> , 2015, 283, 663-671.	12.4	85
24	Sample preservation for the analysis of antibiotics in water. <i>Journal of Chromatography A</i> , 2014, 1369, 43-51.	3.7	39
25	Analysis of anthelmintics in surface water by ultra high performance liquid chromatography coupled to quadrupole linear ion trap tandem mass spectrometry. <i>Chemosphere</i> , 2014, 99, 224-232.	8.2	66
26	Biodegradation of the X-ray contrast agent iopromide and the fluoroquinolone antibiotic ofloxacin by the white rot fungus <i>Trametes versicolor</i> in hospital wastewaters and identification of degradation products. <i>Water Research</i> , 2014, 60, 228-241.	11.3	95
27	Input of pharmaceuticals through coastal surface watercourses into a Mediterranean lagoon (Mar Tj ETQq1 1 0.784314 rgBT /Overlo	8.0	104
28	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. <i>Journal of Chromatography A</i> , 2013, 1292, 173-188.	3.7	322
29	Chronic impact of tetracycline on the biodegradation of an organic substrate mixture under anaerobic conditions. <i>Water Research</i> , 2013, 47, 2959-2969.	11.3	176
30	Analysis of multi-class pharmaceuticals in fish tissues by ultra-high-performance liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1288, 63-72.	3.7	162
31	Exploring the links between antibiotic occurrence, antibiotic resistance, and bacterial communities in water supply reservoirs. <i>Science of the Total Environment</i> , 2013, 456-457, 161-170.	8.0	288
32	Contribution of hospital effluents to the load of pharmaceuticals in urban wastewaters: Identification of ecologically relevant pharmaceuticals. <i>Science of the Total Environment</i> , 2013, 461-462, 302-316.	8.0	469
33	Removal of emerging contaminants from municipal wastewater with an integrated membrane system, MBR+RO. <i>Journal of Hazardous Materials</i> , 2012, 239-240, 64-69.	12.4	222
34	Comprehensive study of ibuprofen and its metabolites in activated sludge batch experiments and aquatic environment. <i>Science of the Total Environment</i> , 2012, 438, 404-413.	8.0	161
35	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. <i>Journal of Chromatography A</i> , 2012, 1248, 104-121.	3.7	457
36	Characterization of Environmental Exposure: Measuring Versus Modeling. <i>Handbook of Environmental Chemistry</i> , 2012, , 25-46.	0.4	0

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37	Occurrence and Elimination of Pharmaceuticals During Conventional Wastewater Treatment. Handbook of Environmental Chemistry, 2012, , 1-23.	0.4	60
38	Prioritization of chemicals in the aquatic environment based on risk assessment: Analytical, modeling and regulatory perspective. Science of the Total Environment, 2012, 440, 236-252.	8.0	99
39	Occurrence, partition and removal of pharmaceuticals in sewage water and sludge during wastewater treatment. Water Research, 2011, 45, 1165-1176.	11.3	802
40	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, 1548-1554.	8.2	46
41	Existence of Pharmaceutical Compounds in Tertiary Treated Urban Wastewater that is Utilized for Reuse Applications. Water Resources Management, 2011, 25, 1183-1193.	3.9	59
42	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, 825-837.	3.7	52
43	Advanced monitoring of pharmaceuticals and estrogens in the Llobregat River basin (Spain) by liquid chromatographyâ€”triple quadrupole-tandem mass spectrometry in combination with ultra performance liquid chromatographyâ€”time of flight-mass spectrometry. Chemosphere, 2010, 80, 1337-1344.	8.2	112
44	Recent trends in the liquid chromatographyâ€”mass spectrometry analysis of organic contaminants in environmental samples. Journal of Chromatography A, 2010, 1217, 4004-4017.	3.7	216
45	Sources, Occurrence, and Environmental Risk Assessment of Pharmaceuticals in the Ebro River Basin. Handbook of Environmental Chemistry, 2010, , 209-237.	0.4	6
46	Removal of pharmaceuticals during wastewater treatment and environmental risk assessment using hazard indexes. Environment International, 2010, 36, 15-26.	10.0	747
47	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.	3.4	140
48	Occurrence and Fate of Pharmaceuticals and Illicit Drugs Under Water Scarcity. Handbook of Environmental Chemistry, 2009, , 197-228.	0.4	3
49	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.	6.5	297
50	Analysis of biologically active compounds in water by ultraâ€”performance liquid chromatography quadrupole timeâ€”ofâ€”flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 41-51.	1.5	69
51	Trace level determination of Î²-blockers in waste waters by highly selective molecularly imprinted polymers extraction followed by liquid chromatographyâ€”quadrupole-linear ion trap mass spectrometry. Journal of Chromatography A, 2008, 1189, 374-384.	3.7	87
52	Occurrence and fate of emerging wastewater contaminants in Western Balkan Region. Science of the Total Environment, 2008, 399, 66-77.	8.0	247
53	First interlaboratory exercise on non-steroidal anti-inflammatory drugs analysis in environmental samples. Talanta, 2008, 76, 580-590.	5.5	56
54	Analysis of Emerging Contaminants of Municipal and Industrial Origin. Handbook of Environmental Chemistry, 2008, , 37-104.	0.4	7

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55	Analysis of Emerging Contaminants of Municipal and Industrial Origin. , 2008, , 37-104.		3
56	Chapter 2.4 Multi-residue analysis of pharmaceuticals using LC-tandem MS and LC-hybrid MS. Comprehensive Analytical Chemistry, 2007, 50, 157-183.	1.3	6
57	Wastewater treatment plants as a pathway for aquatic contamination by pharmaceuticals in the Ebro river basin (Northeast Spain). Environmental Toxicology and Chemistry, 2007, 26, 1553-1562.	4.3	318
58	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, 678-690.	5.5	633
59	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.	3.7	261
60	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, 941-952.	3.7	198
61	Simplified procedures for the analysis of polycyclic aromatic hydrocarbons in water, sediments and mussels. Journal of Chromatography A, 2004, 1047, 181-188.	3.7	64
62	Emerging Contaminants in the Water-Sediment System: Case Studies of Pharmaceuticals and Brominated Flame Retardants in the Ebro River Basin. Water Quality Measurements Series, 0, , 287-298.	0.1	1