Meritxell Gros

List of Publications by Year
in descending order

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 antibiotics and antibiotic resistance genes in hospital and urban wastewaters and their impact on the receiving river. Water Research, 2015, 69, 234-242.	11.3	1,187
2	Occurrence, partition and removal of pharmaceuticals in sewage water and sludge during wastewater treatment. Water Research, 2011, 45, 1165-1176.	11.3	802
3	Removal of pharmaceuticals during wastewater treatment and environmental risk assessment using hazard indexes. Environment International, 2010, 36, 15-26.	10.0	747
4	Development of a multi-residue analytical methodology based on liquid chromatographyâ€“tandem mass spectrometry (LCâ€“MS/MS) for screening and trace level determination of pharmaceuticals in surface and wastewaters. Talanta, 2006, 70, 678-690.	5.5	633
5	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, 302-316.	8.0	469
6	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, 1248, 104-121.	3.7	457
7	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, 173-188.	3.7	322
8	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
9	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
10	Exploring the links between antibiotic occurrence, antibiotic resistance, and bacterial communities in water supply reservoirs. Science of the Total Environment, 2013, 456-457, 161-170.	8.0	288
11	Multi-residue analysis of pharmaceuticals in wastewater by ultra-performance liquid chromatographyâ€“quadrupoleâ€“time-of-flight mass spectrometry. Journal of Chromatography A, 2006, 1124, 68-81.	3.7	261
12	Occurrence and fate of emerging wastewater contaminants in Western Balkan Region. Science of the Total Environment, 2008, 399, 66-77.	8.0	247
13	Removal of emerging contaminants from municipal wastewater with an integrated membrane system, MBRâ€“RO. Journal of Hazardous Materials, 2012, 239-240, 64-69.	12.4	222
14	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
15	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
16	Seasonal distribution of pharmaceuticals in marine water and sediment from a mediterranean coastal lagoon (SE Spain). Environmental Research, 2015, 138, 326-344.	7.5	183
17	Chronic impact of tetracycline on the biodegradation of an organic substrate mixture under anaerobic conditions. Water Research, 2013, 47, 2959-2969.	11.3	176
18	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.	3.7	162

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19	Comprehensive study of ibuprofen and its metabolites in activated sludge batch experiments and aquatic environment. Science of the Total Environment, 2012, 438, 404-413.	8.0	161
20	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.	4.3	150
21	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
22	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.	8.0	121
23	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
24	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.	8.0	110
25	Input of pharmaceuticals through coastal surface watercourses into a Mediterranean lagoon (Mar) Tj ETQq1 1 0.784314 rgBT /Overlock	8.0	104
26	Veterinary pharmaceuticals and antibiotics in manure and slurry and their fate in amended agricultural soils: Findings from an experimental field site (Baix EmpordÃ, NE Catalonia). Science of the Total Environment, 2019, 654, 1337-1349.	8.0	101
27	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
28	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.	11.3	95
29	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.	8.0	94
30	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
31	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.	8.0	85
32	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, 663-671.	12.4	85
33	Screening and prioritization of micropollutants in wastewaters from on-site sewage treatment facilities. Journal of Hazardous Materials, 2017, 328, 37-45.	12.4	79
34	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
35	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.	8.0	69
36	Analysis of anthelmintics in surface water by ultra high performance liquid chromatography coupled to quadrupole linear ion trap tandem mass spectrometry. Chemosphere, 2014, 99, 224-232.	8.2	66

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37	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
38	Fate of pharmaceuticals and antibiotic resistance genes in a full-scale on-farm livestock waste treatment plant. Journal of Hazardous Materials, 2019, 378, 120716.	12.4	61
39	Occurrence and Elimination of Pharmaceuticals During Conventional Wastewater Treatment. Handbook of Environmental Chemistry, 2012, , 1-23.	0.4	60
40	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
41	First interlaboratory exercise on non-steroidal anti-inflammatory drugs analysis in environmental samples. Talanta, 2008, 76, 580-590.	5.5	56
42	Occurrence and assessment of environmental risks of endocrine disrupting compounds in drinking, surface and wastewaters in Serbia. Environmental Pollution, 2020, 262, 114344.	7.5	55
43	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
44	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
45	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.	12.4	44
46	Sample preservation for the analysis of antibiotics in water. Journal of Chromatography A, 2014, 1369, 43-51.	3.7	39
47	Effects of biopellets composed of microalgae and fungi on pharmaceuticals present at environmentally relevant levels in water. Ecological Engineering, 2016, 91, 169-172.	3.6	34
48	Groundwater antibiotic pollution and its relationship with dissolved organic matter: Identification and environmental implications. Environmental Pollution, 2021, 289, 117927.	7.5	28
49	Pharmaceuticals in source separated sanitation systems: Fecal sludge and blackwater treatment. Science of the Total Environment, 2020, 703, 135530.	8.0	24
50	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.	8.0	23
51	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.	7.4	18
52	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.	8.0	16
53	Pressurized Liquid Extraction (PLE) and QuEChERS evaluation for the analysis of antibiotics in agricultural soils. MethodsX, 2020, 7, 101171.	1.6	11
54	Mass fluxes per capita of organic contaminants from on-site sewage treatment facilities. Chemosphere, 2018, 201, 864-873.	8.2	9

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55	Occurrence of veterinary drugs and resistance genes during anaerobic digestion of poultry and cattle manures. Science of the Total Environment, 2022, 822, 153477.	8.0	8
56	Analysis of Emerging Contaminants of Municipal and Industrial Origin. Handbook of Environmental Chemistry, 2008, , 37-104.	0.4	7
57	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
58	Sources, Occurrence, and Environmental Risk Assessment of Pharmaceuticals in the Ebro River Basin. Handbook of Environmental Chemistry, 2010, , 209-237.	0.4	6
59	Analysis of Emerging Contaminants of Municipal and Industrial Origin. , 2008, , 37-104.		3
60	Occurrence and Fate of Pharmaceuticals and Illicit Drugs Under Water Scarcity. Handbook of Environmental Chemistry, 2009, , 197-228.	0.4	3
61	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
62	Characterization of Environmental Exposure: Measuring Versus Modeling. Handbook of Environmental Chemistry, 2012, , 25-46.	0.4	0