

# Dami Barcel

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

619  
papers

41,224  
citations

105  
h-index

162  
g-index

649  
ext. papers

46,312  
ext. citations

7.8  
avg, IF

8.03  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 619 | Occurrence of antibiotics and antibiotic resistance genes in hospital and urban wastewaters and their impact on the receiving river. <i>Water Research</i> , <b>2015</b> , 69, 234-242   | 12.5 | 844       |
| 618 | Fate and distribution of pharmaceuticals in wastewater and sewage sludge of the conventional activated sludge (CAS) and advanced membrane bioreactor (MBR) treatment. <i>Water Research</i> , <b>2009</b> , 43, 831-41   | 12.5 | 843       |
| 617 | Occurrence, partition and removal of pharmaceuticals in sewage water and sludge during wastewater treatment. <i>Water Research</i> , <b>2011</b> , 45, 1165-76   | 12.5 | 679       |
| 616 | 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. <i>Talanta</i> , <b>2006</b> , 70, 678-90  | 6.2  | 570       |
| 615 | Liquid chromatography-tandem mass spectrometry for the analysis of pharmaceutical residues in environmental samples: a review. <i>Journal of Chromatography A</i> , <b>2005</b> , 1067, 1-14   | 4.5  | 484       |
| 614 | 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> , <b>2012</b> , 1248, 104-21 | 4.5  | 401       |
| 613 | Analysis of pharmaceuticals in wastewater and removal using a membrane bioreactor. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 387, 1365-77  | 4.4  | 390       |
| 612 | Determination of pharmaceuticals of various therapeutic classes by solid-phase extraction and liquid chromatography-tandem mass spectrometry analysis in hospital effluent wastewaters. <i>Journal of Chromatography A</i> , <b>2006</b> , 1114, 224-33  | 4.5  | 381       |
| 611 | Contribution of hospital effluents to the load of pharmaceuticals in urban wastewaters: identification of ecologically relevant pharmaceuticals. <i>Science of the Total Environment</i> , <b>2013</b> , 461-462, 302-16   | 10.2 | 358       |
| 610 | Polar pollutants entry into the water cycle by municipal wastewater: a European perspective. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 5451-8  | 10.3 | 335       |
| 609 | Biosensors as useful tools for environmental analysis and monitoring. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 386, 1025-41   | 4.4  | 327       |
| 608 | Human exposure to endocrine disrupting compounds: Their role in reproductive systems, metabolic syndrome and breast cancer. A review. <i>Environmental Research</i> , <b>2016</b> , 151, 251-264   | 7.9  | 314       |
| 607 | Environmental risk assessment of pharmaceuticals in rivers: relationships between hazard indexes and aquatic macroinvertebrate diversity indexes in the Llobregat River (NE Spain). <i>Environment International</i> , <b>2010</b> , 36, 153-62  | 12.9 | 306       |
| 606 | Illicit drug consumption estimations derived from wastewater analysis: a critical review. <i>Science of the Total Environment</i> , <b>2011</b> , 409, 3564-77   | 10.2 | 294       |
| 605 | Analysis and occurrence of pharmaceuticals, estrogens, progestogens and polar pesticides in sewage treatment plant effluents, river water and drinking water in the Llobregat river basin (Barcelona, Spain). <i>Journal of Hydrology</i> , <b>2008</b> , 358, 112-123   | 6    | 293       |
| 604 | Wastewater treatment plants as a pathway for aquatic contamination by pharmaceuticals in the ebro river basin (northeast Spain). <i>Environmental Toxicology and Chemistry</i> , <b>2007</b> , 26, 1553-62   | 3.8  | 286       |
| 603 | Occurrence of 95 pharmaceuticals and transformation products in urban groundwaters underlying the metropolis of Barcelona, Spain. <i>Environmental Pollution</i> , <b>2013</b> , 174, 305-15   | 9.3  | 278       |

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|-----|--|------|-----|
| 602 | Occurrence and distribution of pharmaceuticals in surface water, suspended solids and sediments of the Ebro river basin, Spain. <i>Chemosphere</i> , <b>2011</b> , 85, 1331-9  | 8.4  | 273 |
| 601 | Estrogenicity Determination in Sewage Treatment Plants and Surface Waters from the Catalonian Area (NE Spain). <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 5076-5083   | 10.3 | 273 |
| 600 | Increased plastic pollution due to COVID-19 pandemic: Challenges and recommendations. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126683  | 14.7 | 272 |
| 599 | Tracing pharmaceutical residues of different therapeutic classes in environmental waters by using liquid chromatography/quadrupole-linear ion trap mass spectrometry and automated library searching. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 898-912  | 7.8  | 269 |
| 598 | 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> , <b>2010</b> , 36, 75-84   | 12.9 | 260 |
| 597 | Emerging organic contaminants in groundwater in Spain: a review of sources, recent occurrence and fate in a European context. <i>Science of the Total Environment</i> , <b>2012</b> , 440, 82-94   | 10.2 | 258 |
| 596 | 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> , <b>2013</b> , 1292, 173-88 | 4.5  | 252 |
| 595 | Multi-residue analysis of pharmaceuticals in wastewater by ultra-performance liquid chromatography-quadrupole-time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , <b>2006</b> , 1124, 68-81   | 4.5  | 247 |
| 594 | Advantages and limitations of on-line solid phase extraction coupled to liquid chromatography-mass spectrometry technologies versus biosensors for monitoring of emerging contaminants in water. <i>Journal of Chromatography A</i> , <b>2007</b> , 1152, 97-115   | 4.5  | 243 |
| 593 | Accumulation of perfluoroalkyl substances in human tissues. <i>Environment International</i> , <b>2013</b> , 59, 354-62  | 12.9 | 239 |
| 592 | Impact of pesticides used in agriculture and vineyards to surface and groundwater quality (North Spain). <i>Water Research</i> , <b>2008</b> , 42, 3315-26   | 12.5 | 235 |
| 591 | Identification and determination of metabolites and degradation products of sulfonamide antibiotics. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2008</b> , 27, 1008-1022  | 14.6 | 235 |
| 590 | Occurrence and behavior of pesticides in wastewater treatment plants and their environmental impact. <i>Science of the Total Environment</i> , <b>2013</b> , 458-460, 466-76   | 10.2 | 232 |
| 589 | Strengths and limitations of immunoassays for effective and efficient use for pesticide analysis in water samples: A review. <i>Analytica Chimica Acta</i> , <b>1998</b> , 362, 3-34   | 6.6  | 231 |
| 588 | Occurrence and fate of emerging wastewater contaminants in Western Balkan Region. <i>Science of the Total Environment</i> , <b>2008</b> , 399, 66-77   | 10.2 | 227 |
| 587 | Exploring the links between antibiotic occurrence, antibiotic resistance, and bacterial communities in water supply reservoirs. <i>Science of the Total Environment</i> , <b>2013</b> , 456-457, 161-70  | 10.2 | 221 |
| 586 | Pesticides in the Ebro River basin: Occurrence and risk assessment. <i>Environmental Pollution</i> , <b>2016</b> , 211, 414-24   | 9.3  | 210 |
| 585 | Occurrence and bioavailability of polybrominated diphenyl ethers and hexabromocyclododecane in sediment and fish from the Cinca River, a tributary of the Ebro River (Spain). <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 2603-8   | 10.3 | 199 |

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|-----|---|------|-----|
| 584 | Multivariate curve resolution applied to liquid chromatography-diode array detection. <i>TrAC - Trends in Analytical Chemistry</i> , <b>1993</b> , 12, 319-327  | 14.6 | 198 |
| 583 | Multi-residue method for trace level determination of pharmaceuticals in solid samples using pressurized liquid extraction followed by liquid chromatography/quadrupole-linear ion trap mass spectrometry. <i>Talanta</i> , <b>2009</b> , 80, 363-71                            | 6.2  | 195 |
| 582 | Rethinking and optimising plastic waste management under COVID-19 pandemic: Policy solutions based on redesign and reduction of single-use plastics and personal protective equipment. <i>Science of the Total Environment</i> , <b>2020</b> , 742, 140565                      | 10.2 | 188 |
| 581 | Recent trends in the liquid chromatography-mass spectrometry analysis of organic contaminants in environmental samples. <i>Journal of Chromatography A</i> , <b>2010</b> , 1217, 4004-17  | 4.5  | 187 |
| 580 | Occurrence of sulfonamide residues along the Ebro River basin: removal in wastewater treatment plants and environmental impact assessment. <i>Environment International</i> , <b>2011</b> , 37, 462-73  | 12.9 | 184 |
| 579 | Analysis and assessment of the occurrence, the fate and the behavior of nanomaterials in the environment. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2011</b> , 30, 517-527  | 14.6 | 183 |
| 578 | Liquid chromatography-(tandem) mass spectrometry of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic environment. <i>Journal of Chromatography A</i> , <b>2003</b> , 1000, 503-26  | 4.5  | 182 |
| 577 | Multi-residue analytical methods using LC-tandem MS for the determination of pharmaceuticals in environmental and wastewater samples: a review. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 386, 941-52   | 4.4  | 181 |
| 576 | Choosing between atmospheric pressure chemical ionization and electrospray ionization interfaces for the HPLC/MS analysis of pesticides. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 5441-9   | 7.8  | 179 |
| 575 | 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> , <b>2008</b> , 80, 3123-34 | 7.8  | 178 |
| 574 | Determination of 81 pharmaceutical drugs by high performance liquid chromatography coupled to mass spectrometry with hybrid triple quadrupole-linear ion trap in different types of water in Serbia. <i>Science of the Total Environment</i> , <b>2014</b> , 468-469, 415-28    | 10.2 | 175 |
| 573 | Analysis and environmental levels of endocrine-disrupting compounds in freshwater sediments. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2001</b> , 20, 637-648   | 14.6 | 175 |
| 572 | Organic UV filters and their photodegradates, metabolites and disinfection by-products in the aquatic environment. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2008</b> , 27, 873-887   | 14.6 | 164 |
| 571 | Degradation of pharmaceuticals in non-sterile urban wastewater by <i>Trametes versicolor</i> in a fluidized bed bioreactor. <i>Water Research</i> , <b>2013</b> , 47, 5200-10   | 12.5 | 158 |
| 570 | Degradation of carbamazepine by <i>Trametes versicolor</i> in an air pulsed fluidized bed bioreactor and identification of intermediates. <i>Water Research</i> , <b>2012</b> , 46, 955-64  | 12.5 | 156 |
| 569 | Highly sensitive simultaneous determination of sulfonamide antibiotics and one metabolite in environmental waters by liquid chromatography-quadrupole linear ion trap-mass spectrometry. <i>Journal of Chromatography A</i> , <b>2008</b> , 1193, 50-9                          | 4.5  | 156 |
| 568 | Bridging levels of pharmaceuticals in river water with biological community structure in the Llobregat River basin (northeast Spain). <i>Environmental Toxicology and Chemistry</i> , <b>2009</b> , 28, 2706-14   | 3.8  | 155 |
| 567 | First determination of C60 and C70 fullerenes and N-methylfulleropyrrolidine C60 on the suspended material of wastewater effluents by liquid chromatography hybrid quadrupole linear ion trap tandem mass spectrometry. <i>Journal of Hydrology</i> , <b>2010</b> , 383, 44-51  | 6    | 152 |

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|-----|--|------|-----|
| 566 | The SOLUTIONS project: challenges and responses for present and future emerging pollutants in land and water resources management. <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 22-31  | 10.2 | 149 |
| 565 | Determination of 19 sulfonamides in environmental water samples by automated on-line solid-phase extraction-liquid chromatography-tandem mass spectrometry (SPE-LC-MS/MS). <i>Talanta</i> , <b>2010</b> , 81, 355-66   | 6.2  | 149 |
| 564 | Response of soil enzyme activities and bacterial communities to the accumulation of microplastics in an acid cropped soil. <i>Science of the Total Environment</i> , <b>2020</b> , 707, 135634   | 10.2 | 144 |
| 563 | Hospital wastewater treatment by fungal bioreactor: removal efficiency for pharmaceuticals and endocrine disruptor compounds. <i>Science of the Total Environment</i> , <b>2014</b> , 493, 365-76  | 10.2 | 143 |
| 562 | Picogram per liter level determination of estrogens in natural waters and waterworks by a fully automated on-line solid-phase extraction-liquid chromatography-electrospray tandem mass spectrometry method. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 6998-7006 | 7.8  | 143 |
| 561 | Synthetic organic compounds and their transformation products in groundwater: occurrence, fate and mitigation. <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 32-47  | 10.2 | 141 |
| 560 | Trace organic chemicals contamination in ground water recharge. <i>Chemosphere</i> , <b>2008</b> , 72, 333-42  | 8.4  | 141 |
| 559 | Microplastics in agricultural soils on the coastal plain of Hangzhou Bay, east China: Multiple sources other than plastic mulching film. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 388, 121814   | 12.8 | 141 |
| 558 | Adsorption of perfluoroalkyl substances on microplastics under environmental conditions. <i>Environmental Pollution</i> , <b>2018</b> , 235, 680-691   | 9.3  | 138 |
| 557 | Analytical chemistry of metallic nanoparticles in natural environments. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2011</b> , 30, 528-540   | 14.6 | 137 |
| 556 | Comprehensive study of ibuprofen and its metabolites in activated sludge batch experiments and aquatic environment. <i>Science of the Total Environment</i> , <b>2012</b> , 438, 404-13  | 10.2 | 135 |
| 555 | Triclosan persistence through wastewater treatment plants and its potential toxic effects on river biofilms. <i>Aquatic Toxicology</i> , <b>2010</b> , 100, 346-53   | 5.1  | 134 |
| 554 | Occurrence of halogenated and organophosphate flame retardants in sediment and fish samples from three European river basins. <i>Science of the Total Environment</i> , <b>2017</b> , 586, 782-791   | 10.2 | 131 |
| 553 | Occurrence of polybrominated diphenylethers, polychlorinated dibenzo-p-dioxins, dibenzofurans and biphenyls in coastal sediments from Spain. <i>Environmental Pollution</i> , <b>2005</b> , 136, 493-501   | 9.3  | 131 |
| 552 | Primary and complex stressors in polluted mediterranean rivers: Pesticide effects on biological communities. <i>Journal of Hydrology</i> , <b>2010</b> , 383, 52-61  | 6    | 130 |
| 551 | Use of solid-phase extraction in various of its modalities for sample preparation in the determination of estrogens and progestogens in sediment and water. <i>Journal of Chromatography A</i> , <b>2001</b> , 938, 145-53   | 4.5  | 130 |
| 550 | Effect of sewage sludges contaminated with polybrominated diphenylethers on agricultural soils. <i>Chemosphere</i> , <b>2008</b> , 71, 1079-86   | 8.4  | 129 |
| 549 | Effect-directed analysis of key toxicants in European river basins a review. <i>Environmental Science and Pollution Research</i> , <b>2007</b> , 14, 30-8  | 5.1  | 129 |

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| 548 | Analysis and distribution of estrogens and progestogens in sewage sludge, soils and sediments. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2004</b> , 23, 790-798   | 14.6 | 129 |
| 547 | Analysis and Prevention of Microplastics Pollution in Water: Current Perspectives and Future Directions. <i>ACS Omega</i> , <b>2019</b> , 4, 6709-6719  | 3.9  | 128 |
| 546 | Managing the effects of multiple stressors on aquatic ecosystems under water scarcity. The GLOBAQUA project. <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 3-9   | 10.2 | 128 |
| 545 | Solar photocatalytic degradation of persistent pharmaceuticals at pilot-scale: Kinetics and characterization of major intermediate products. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 89, 255-264  | 21.8 | 128 |
| 544 | Determination of 39 polybrominated diphenyl ether congeners in sediment samples using fast selective pressurized liquid extraction and purification. <i>Journal of Chromatography A</i> , <b>2003</b> , 1021, 165-734   | 4.5  | 125 |
| 543 | Antibiotic residues in final effluents of European wastewater treatment plants and their impact on the aquatic environment. <i>Environment International</i> , <b>2020</b> , 140, 105733  | 12.9 | 124 |
| 542 | Biosensors for environmental monitoring of endocrine disruptors: a review article. <i>Analytical and Bioanalytical Chemistry</i> , <b>2004</b> , 378, 588-98  | 4.4  | 124 |
| 541 | Distribution of endocrine disruptors in the Llobregat River basin (Catalonia, NE Spain). <i>Chemosphere</i> , <b>2005</b> , 61, 1710-9  | 8.4  | 122 |
| 540 | Pesticide monitoring in the basin of Llobregat River (Catalonia, Spain) and comparison with historical data. <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 58-68   | 10.2 | 121 |
| 539 | Simultaneous occurrence of nitrates and sulfonamide antibiotics in two ground water bodies of Catalonia (Spain). <i>Journal of Hydrology</i> , <b>2010</b> , 383, 93-101  | 6    | 121 |
| 538 | Pilot survey of a broad range of priority pollutants in sediment and fish from the Ebro river basin (NE Spain). <i>Environmental Pollution</i> , <b>2006</b> , 140, 471-82  | 9.3  | 120 |
| 537 | Review of analytical methods for the determination of estrogens and progestogens in waste waters. <i>Fresenius Journal of Analytical Chemistry</i> , <b>2001</b> , 371, 437-47  |      | 120 |
| 536 | Occurrence, distribution and partitioning of nonionic surfactants and pharmaceuticals in the urbanized Long Island Sound Estuary (NY). <i>Marine Pollution Bulletin</i> , <b>2014</b> , 85, 710-9   | 6.7  | 116 |
| 535 | Risk assessment based prioritization of 200 organic micropollutants in 4 Iberian rivers. <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 289-99  | 10.2 | 114 |
| 534 | Green analytical chemistry in the determination of organic pollutants in the aquatic environment. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2010</b> , 29, 1347-1362  | 14.6 | 112 |
| 533 | First report of pyrethroid bioaccumulation in wild river fish: a case study in Iberian river basins (Spain). <i>Environment International</i> , <b>2015</b> , 75, 110-6   | 12.9 | 111 |
| 532 | An environmental and health perspective for COVID-19 outbreak: Meteorology and air quality influence, sewage epidemiology indicator, hospitals disinfection, drug therapies and recommendations. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 104006 | 6.8  | 111 |
| 531 | Fully automated determination of nine ultraviolet filters and transformation products in natural waters and wastewaters by on-line solid phase extraction-liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , <b>2013</b> , 1294, 106-16       | 4.5  | 110 |

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| 530 | Effects of low concentrations of the phenylurea herbicide diuron on biofilm algae and bacteria. <i>Chemosphere</i> , <b>2009</b> , 76, 1392-401  | 8.4   | 110 |
| 529 | Emerging food contaminants: a review. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 2413-27   | 4.4   | 110 |
| 528 | Occurrence and analysis of estrogens and progestogens in river sediments by liquid chromatography-electrospray-mass spectrometry. <i>Analyt, The</i> , <b>2002</b> , 127, 1299-304   | 5     | 110 |
| 527 | Comparative study of an estradiol enzyme-linked immunosorbent assay kit, liquid chromatography-tandem mass spectrometry, and ultra performance liquid chromatography-quadrupole time of flight mass spectrometry for part-per-trillion analysis of estrogens in water samples. <i>Journal of Chromatography A</i> , <b>2007</b> , 1160, 166-75 | 4.5   | 109 |
| 526 | Occurrence and modeling of pharmaceuticals on a sewage-impacted Mediterranean river and their dynamics under different hydrological conditions. <i>Science of the Total Environment</i> , <b>2012</b> , 440, 3-13  | 10.2  | 108 |
| 525 | Achievements and future trends in the analysis of emerging organic contaminants in environmental samples by mass spectrometry and bioanalytical techniques. <i>Journal of Chromatography A</i> , <b>2012</b> , 1259, 86-99   | 4.5   | 108 |
| 524 | 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> , <b>2008</b> , 27, 1053-1069   | 14.6  | 108 |
| 523 | Persistence of pesticides-based contaminants in the environment and their effective degradation using laccase-assisted biocatalytic systems. <i>Science of the Total Environment</i> , <b>2019</b> , 695, 133896   | 10.2  | 107 |
| 522 | Evaluation of drugs of abuse use and trends in a prison through wastewater analysis. <i>Environment International</i> , <b>2011</b> , 37, 49-55  | 12.9  | 107 |
| 521 | Occurrence and fate of alkylphenols and alkylphenol ethoxylates in sewage treatment plants and impact on receiving waters along the Ter River (Catalonia, NE Spain). <i>Environmental Pollution</i> , <b>2008</b> , 153, 384-92  | 9.3   | 107 |
| 520 | Competitive flow immunoassay with fluorescence detection for determination of 4-nitrophenol. <i>Analytica Chimica Acta</i> , <b>2001</b> , 426, 185-195  | 6.6   | 107 |
| 519 | Environmental applications of analytical biosensors. <i>Measurement Science and Technology</i> , <b>1996</b> , 7, 1547-1562  | 15.62 | 106 |
| 518 | UV filters bioaccumulation in fish from Iberian river basins. <i>Science of the Total Environment</i> , <b>2015</b> , 518-519, 518-25  | 10.2  | 105 |
| 517 | Cytostatic drugs and metabolites in municipal and hospital wastewaters in Spain: filtration, occurrence, and environmental risk. <i>Science of the Total Environment</i> , <b>2014</b> , 497-498, 68-77  | 10.2  | 105 |
| 516 | Chemical and biological analysis of endocrine-disrupting hormones and estrogenic activity in an advanced sewage treatment plant. <i>Environmental Toxicology and Chemistry</i> , <b>2008</b> , 27, 1649  | 3.8   | 105 |
| 515 | Polybromodiphenyl ether flame retardants in fish from lakes in European high mountains and Greenland. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 2338-44  | 10.3  | 105 |
| 514 | Occurrence of multiclass UV filters in treated sewage sludge from wastewater treatment plants. <i>Chemosphere</i> , <b>2011</b> , 84, 1158-65  | 8.4   | 104 |
| 513 | Performance of a microalgal photobioreactor treating toilet wastewater: Pharmaceutically active compound removal and biomass harvesting. <i>Science of the Total Environment</i> , <b>2017</b> , 592, 1-11   | 10.2  | 103 |

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|-----|--|------|-----|
| 512 | Biodegradation of sulfamethazine by <i>Trametes versicolor</i> : Removal from sewage sludge and identification of intermediate products by UPLC-QqTOF-MS. <i>Science of the Total Environment</i> , <b>2011</b> , 409, 5505-12   | 10.2 | 103 |
| 511 | Monitoring Long-Chain Intermediate Products from the Degradation of Linear Alkylbenzene Sulfonates in the Marine Environment by Solid-Phase Extraction Followed by Liquid Chromatography/Ionspray Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , <b>1997</b> , 31, 504-510 | 10.3 | 103 |
| 510 | Ecotoxicological effects of carbon based nanomaterials in aquatic organisms. <i>Science of the Total Environment</i> , <b>2018</b> , 619-620, 328-337  | 10.2 | 103 |
| 509 | Anthropogenic contaminants of high concern: Existence in water resources and their adverse effects. <i>Science of the Total Environment</i> , <b>2019</b> , 690, 1068-1088   | 10.2 | 102 |
| 508 | Hexabromocyclododecane in human breast milk: levels and enantiomeric patterns. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 1940-6  | 10.3 | 102 |
| 507 | Analysis of UV Filters in tap water and other clean waters in Spain. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 2325-33  | 4.4  | 101 |
| 506 | The expanding role of LC-MS in analyzing metabolites and degradation products of food contaminants. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2008</b> , 27, 821-835   | 14.6 | 101 |
| 505 | Comparison of sulfonated and other micropollutants removal in membrane bioreactor and conventional wastewater treatment. <i>Water Research</i> , <b>2007</b> , 41, 935-45  | 12.5 | 101 |
| 504 | Early SARS-CoV-2 outbreak detection by sewage-based epidemiology. <i>Science of the Total Environment</i> , <b>2020</b> , 732, 139298  | 10.2 | 100 |
| 503 | Occurrence of pharmaceutical, recreational and psychotropic drug residues in surface water on the northern Antarctic Peninsula region. <i>Environmental Pollution</i> , <b>2017</b> , 229, 241-254   | 9.3  | 99  |
| 502 | Development of a liquid chromatography-tandem mass spectrometry procedure for determination of endocrine disrupting compounds in fish from Mediterranean rivers. <i>Journal of Chromatography A</i> , <b>2013</b> , 1306, 44-58  | 4.5  | 99  |
| 501 | Combining chemical analysis and ecotoxicity to determine environmental exposure and to assess risk from sulfonamides. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2009</b> , 28, 804-819   | 14.6 | 99  |
| 500 | Analysis of perfluoroalkyl substances in waters from Germany and Spain. <i>Science of the Total Environment</i> , <b>2012</b> , 431, 139-50  | 10.2 | 98  |
| 499 | On-line solid phase extraction-liquid chromatography-tandem mass spectrometry for the determination of 17 cytostatics and metabolites in waste, surface and ground water samples. <i>Journal of Chromatography A</i> , <b>2013</b> , 1280, 64-74   | 4.5  | 98  |
| 498 | Multi-residue analytical method for the determination of endocrine disruptors and related compounds in river and waste water using dual column liquid chromatography switching system coupled to mass spectrometry. <i>Journal of Chromatography A</i> , <b>2013</b> , 1295, 57-66             | 4.5  | 98  |
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| 496 | Infant exposure of perfluorinated compounds: levels in breast milk and commercial baby food. <i>Environment International</i> , <b>2010</b> , 36, 584-92   | 12.9 | 96  |
| 495 | Removal of a broad range of surfactants from municipal wastewater--comparison between membrane bioreactor and conventional activated sludge treatment. <i>Chemosphere</i> , <b>2007</b> , 67, 335-43   | 8.4  | 96  |



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| 493 | 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. <i>Chemosphere</i> , <b>2010</b> , 80, 1337-44 | 8.4  | 95 |
| 492 | Liquid chromatography-tandem mass spectrometric analysis and regulatory issues of polar pesticides in natural and treated waters. <i>Journal of Chromatography A</i> , <b>2009</b> , 1216, 520-9   | 4.5  | 94 |
| 491 | Determination of antimicrobial residues and metabolites in the aquatic environment by liquid chromatography tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 386, 973-85  | 4.4  | 94 |
| 490 | Pressurized liquid extraction followed by liquid chromatography-mass spectrometry for the determination of alkylphenolic compounds in river sediment. <i>Journal of Chromatography A</i> , <b>2002</b> , 959, 15-23  | 4.5  | 94 |
| 489 | Chemical and toxicological characterisation of anticancer drugs in hospital and municipal wastewaters from Slovenia and Spain. <i>Environmental Pollution</i> , <b>2016</b> , 219, 275-287   | 9.3  | 93 |
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| 486 | Survey of organotin compounds in rivers and coastal environments in Portugal 1999-2000. <i>Environmental Pollution</i> , <b>2005</b> , 136, 525-36   | 9.3  | 92 |
| 485 | LCMS2 trace analysis of antimicrobials in water, sediment and soil. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2005</b> , 24, 645-657   | 14.6 | 91 |
| 484 | Nano- and microplastic analysis: Focus on their occurrence in freshwater ecosystems and remediation technologies. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 113, 409-425  | 14.6 | 91 |
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| 480 | Urban groundwater contamination by residues of UV filters. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 271, 141-9  | 12.8 | 88 |
| 479 | A survey of emerging contaminants in the estuarine receiving environment around Auckland, New Zealand. <i>Science of the Total Environment</i> , <b>2014</b> , 468-469, 202-10   | 10.2 | 88 |
| 478 | Removal of estrogens through water disinfection processes and formation of by-products. <i>Chemosphere</i> , <b>2011</b> , 82, 789-99  | 8.4  | 88 |
| 477 | Environmental analysis of fluorinated alkyl substances by liquid chromatography-(tandem) mass spectrometry: a review. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 386, 953-72  | 4.4  | 88 |

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| 474 | Ecotoxicity evaluation and removal of sulfonamides and their acetylated metabolites during conventional wastewater treatment. <i>Science of the Total Environment</i> , <b>2012</b> , 437, 403-12  | 10.2 | 86 |
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| 470 | 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. <i>Journal of Chromatography A</i> , <b>2008</b> , 1189, 374-84   | 4.5  | 85 |
| 469 | Photodegradation of azithromycin in various aqueous systems under simulated and natural solar radiation: kinetics and identification of photoproducts. <i>Chemosphere</i> , <b>2011</b> , 83, 340-8  | 8.4  | 84 |
| 468 | Occurrence and specific congener profile of 40 polybrominated diphenyl ethers in river and coastal sediments from Portugal. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 892-8  | 10.3 | 84 |
| 467 | Occurrence of hydrophobic organic pollutants (BFRs and UV-filters) in sediments from South America. <i>Chemosphere</i> , <b>2013</b> , 92, 309-16  | 8.4  | 83 |
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| 463 | How to confirm identified toxicants in effect-directed analysis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 390, 1959-73  | 4.4  | 81 |
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| 460 | Distribution and fate of perfluoroalkyl substances in Mediterranean Spanish sewage treatment plants. <i>Science of the Total Environment</i> , <b>2014</b> , 472, 912-22   | 10.2 | 79 |
| 459 | Integrated ecotoxicological and chemical approach for the assessment of pesticide pollution in the Ebro River delta (Spain). <i>Journal of Hydrology</i> , <b>2010</b> , 383, 73-82  | 6    | 79 |

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| 457 | Self-reduction bimetallic nanoparticles on ultrathin MXene nanosheets as functional platform for pesticide sensing. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121358  | 12.8 | 79 |
| 456 | Emerging and historical brominated flame retardants in peregrine falcon ( <i>Falco peregrinus</i> ) eggs from Canada and Spain. <i>Environment International</i> , <b>2012</b> , 40, 179-186   | 12.9 | 78 |
| 455 | Column-switching system with restricted access pre-column packing for an integrated sample cleanup and liquid chromatographic-mass spectrometric analysis of alkylphenolic compounds and steroid sex hormones in sediment. <i>Journal of Chromatography A</i> , <b>2002</b> , 971, 37-45             | 4.5  | 78 |
| 454 | Contamination sources and distribution patterns of pharmaceuticals and personal care products in Alpine rivers strongly affected by tourism. <i>Science of the Total Environment</i> , <b>2017</b> , 590-591, 484-494  | 10.2 | 77 |
| 453 | Multiresidue trace analysis of sulfonamide antibiotics and their metabolites in soils and sewage sludge by pressurized liquid extraction followed by liquid chromatography-electrospray-quadrupole linear ion trap mass spectrometry. <i>Journal of Chromatography A</i> , <b>2013</b> , 1275, 32-40 | 4.5  | 77 |
| 452 | Analysis of emerging contaminants in food. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2013</b> , 43, 240-253  | 14.6 | 77 |
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| 449 | Four-year advanced monitoring program of polar pesticides in groundwater of Catalonia (NE-Spain). <i>Science of the Total Environment</i> , <b>2014</b> , 470-471, 1087-98   | 10.2 | 76 |
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| 445 | Determination of carbamate residues in crop samples by cholinesterase-based biosensors and chromatographic techniques. <i>Analytica Chimica Acta</i> , <b>1998</b> , 362, 59-68  | 6.6  | 75 |
| 444 | Variations in <sup>13</sup> C/ <sup>12</sup> C and D/H enrichment factors of aerobic bacterial fuel oxygenate degradation. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 2036-43   | 10.3 | 75 |
| 443 | Decabrominated diphenyl ether in river fish and sediment samples collected downstream an industrial park. <i>Chemosphere</i> , <b>2007</b> , 69, 1278-86   | 8.4  | 75 |
| 442 | Determination of pesticides in drinking water by on-line solid-phase disk extraction followed by various liquid chromatographic systems. <i>Journal of Chromatography A</i> , <b>1993</b> , 645, 125-34  | 4.5  | 75 |
| 441 | Occurrence and transport of PAHs, pesticides and alkylphenols in sediment samples along the Ebro River Basin. <i>Journal of Hydrology</i> , <b>2010</b> , 383, 5-17  | 6    | 73 |

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| 440 | Analysis of industrial effluents to determine endocrine-disrupting chemicals. <i>TrAC - Trends in Analytical Chemistry</i> , <b>1997</b> , 16, 574-583   | 14.6 | 73 |
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| 436 | Tracing pharmaceuticals in a municipal plant for integrated wastewater and organic solid waste treatment. <i>Science of the Total Environment</i> , <b>2012</b> , 433, 352-61  | 10.2 | 71 |
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| 431 | Quantitative trace analysis of fullerenes in river sediment from Spain and soils from Saudi Arabia. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 5915-23   | 4.4  | 70 |
| 430 | Application of fully automated online solid phase extraction-liquid chromatography-electrospray-tandem mass spectrometry for the determination of sulfonamides and their acetylated metabolites in groundwater. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 399, 795-806 | 4.4  | 70 |
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| 427 | Algal-based removal strategies for hazardous contaminants from the environment - A review. <i>Science of the Total Environment</i> , <b>2019</b> , 665, 358-366  | 10.2 | 70 |
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| 4 <sup>21</sup> | Seasonal variation of plasmatic and hepatic vitellogenin and EROD activity in carp, <i>Cyprinus carpio</i> , in relation to sewage treatment plants. <i>Aquatic Toxicology</i> , <b>2002</b> , 60, 233-48   | 5.1  | 69 |
| 4 <sup>20</sup> | Perfluoroalkyl substance contamination of the Llobregat River ecosystem (Mediterranean area, NE Spain). <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 48-57  | 10.2 | 68 |
| 4 <sup>19</sup> | Chemical monitoring and occurrence of alkylphenols, alkylphenol ethoxylates, alcohol ethoxylates, phthalates and benzothiazoles in sewage treatment plants and receiving waters along the Ter River basin (Catalonia, N. E. Spain). <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 385, 992-1000 | 4.4  | 68 |
| 4 <sup>18</sup> | Congener distribution of polybrominated diphenyl ethers in feral carp ( <i>Cyprinus carpio</i> ) from the Llobregat River, Spain. <i>Environmental Pollution</i> , <b>2007</b> , 146, 188-95  | 9.3  | 68 |
| 4 <sup>17</sup> | Detection and evaluation of endocrine-disruption activity in water samples from Portuguese rivers. <i>Environmental Toxicology and Chemistry</i> , <b>2005</b> , 24, 389-95   | 3.8  | 68 |
| 4 <sup>16</sup> | Fully automated multianalyte determination of different classes of pesticides, at picogram per litre levels in water, by on-line solid-phase extraction-liquid chromatography-electrospray-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 382, 1815-25                 | 4.4  | 68 |
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| 4 <sup>14</sup> | Assessment of toxicity and genotoxicity of low doses of 5-fluorouracil in zebrafish ( <i>Danio rerio</i> ) two-generation study. <i>Water Research</i> , <b>2015</b> , 77, 201-212  | 12.5 | 67 |
| 4 <sup>13</sup> | Ecological risk assessment associated to the removal of endocrine-disrupting parabens and benzophenone-4 in wastewater treatment. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 310, 143-51   | 12.8 | 67 |
| 4 <sup>12</sup> | Continuous degradation of a mixture of sulfonamides by <i>Trametes versicolor</i> and identification of metabolites from sulfapyridine and sulfathiazole. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 213-214, 347-54   | 12.8 | 67 |
| 4 <sup>11</sup> | Occurrence of aerosol-bound fullerenes in the Mediterranean Sea atmosphere. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 1335-43   | 10.3 | 67 |
| 4 <sup>10</sup> | 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> , <b>2011</b> , 82, 670-8  | 8.4  | 67 |
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| 4 <sup>08</sup> | Brominated flame retardants in <i>Alburnus alburnus</i> from Cinca River Basin (Spain). <i>Environmental Pollution</i> , <b>2005</b> , 133, 501-8   | 9.3  | 67 |
| 4 <sup>07</sup> | Determination of trace levels of herbicides in estuarine waters by gas and liquid chromatographic techniques. <i>Journal of Chromatography A</i> , <b>1992</b> , 607, 319-327   | 4.5  | 67 |
| 4 <sup>06</sup> | Advanced liquid chromatography-mass spectrometry (LC-MS) methods applied to wastewater removal and the fate of surfactants in the environment. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2007</b> , 26, 116-124   | 14.6 | 66 |
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| 403 | Analysis of the occurrence and risk assessment of polar pesticides in the Llobregat River Basin (NE Spain). <i>Chemosphere</i> , <b>2012</b> , 86, 8-16  | 8.4  | 64 |
| 402 | Multi-residue method for trace level determination of UV filters in fish based on pressurized liquid extraction and liquid chromatography-quadrupole-linear ion trap-mass spectrometry. <i>Journal of Chromatography A</i> , <b>2013</b> , 1286, 93-101  | 4.5  | 64 |
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| 394 | Analysis of the presence of perfluoroalkyl substances in water, sediment and biota of the Júcar River (E Spain). Sources, partitioning and relationships with water physical characteristics. <i>Environmental Research</i> , <b>2016</b> , 147, 503-12  | 7.9  | 62 |
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| 388 | Non conventional biological treatment based on <i>Trametes versicolor</i> for the elimination of recalcitrant anticancer drugs in hospital wastewater. <i>Chemosphere</i> , <b>2015</b> , 136, 9-19  | 8.4  | 59 |
| 387 | Municipal Solid Waste Landfills: An Underestimated Source of Pharmaceutical and Personal Care Products in the Water Environment. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 9757-9768   | 10.3 | 59 |

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