

Christa S Mcardell

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54
papers

9,734
citations

35
h-index

54
g-index

54
ext. papers

10,852
ext. citations

9.1
avg, IF

6
L-index

#	Paper	IF	Citations
54	Urban wastewater treatment plants as hotspots for the release of antibiotics in the environment: a review. <i>Water Research</i> , 2013 , 47, 957-95	12.5	1189
53	Biological degradation of pharmaceuticals in municipal wastewater treatment: proposing a classification scheme. <i>Water Research</i> , 2006 , 40, 1686-96	12.5	818
52	Removal of pharmaceuticals and fragrances in biological wastewater treatment. <i>Water Research</i> , 2005 , 39, 3139-52	12.5	656
51	Oxidation of pharmaceuticals during ozonation of municipal wastewater effluents: a pilot study. <i>Environmental Science & Technology</i> , 2005 , 39, 4290-9	10.3	632
50	Elimination of organic micropollutants in a municipal wastewater treatment plant upgraded with a full-scale post-ozonation followed by sand filtration. <i>Environmental Science & Technology</i> , 2009 , 43, 7862-9	10.3	622
49	Fate of sulfonamides, macrolides, and trimethoprim in different wastewater treatment technologies. <i>Science of the Total Environment</i> , 2007 , 372, 361-71	10.2	553
48	Occurrence and sorption behavior of sulfonamides, macrolides, and trimethoprim in activated sludge treatment. <i>Environmental Science & Technology</i> , 2005 , 39, 3981-9	10.3	539
47	Occurrence and fate of macrolide antibiotics in wastewater treatment plants and in the Glatt Valley watershed, Switzerland. <i>Environmental Science & Technology</i> , 2003 , 37, 5479-86	10.3	361
46	Environmental toxicology and risk assessment of pharmaceuticals from hospital wastewater. <i>Water Research</i> , 2011 , 45, 75-92	12.5	353
45	Hospital wastewater treatment by membrane bioreactor: performance and efficiency for organic micropollutant elimination. <i>Environmental Science & Technology</i> , 2012 , 46, 1536-45	10.3	332
44	Consolidated vs new advanced treatment methods for the removal of contaminants of emerging concern from urban wastewater. <i>Science of the Total Environment</i> , 2019 , 655, 986-1008	10.2	319
43	Quantification of veterinary antibiotics (sulfonamides and trimethoprim) in animal manure by liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2002 , 952, 111-20	4.5	298
42	Evaluation of a full-scale wastewater treatment plant upgraded with ozonation and biological post-treatments: Abatement of micropollutants, formation of transformation products and oxidation by-products. <i>Water Research</i> , 2018 , 129, 486-498	12.5	258
41	Trace determination of macrolide and sulfonamide antimicrobials, a human sulfonamide metabolite, and trimethoprim in wastewater using liquid chromatography coupled to electrospray tandem mass spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 4756-64	7.8	258
40	Elimination of micropollutants during post-treatment of hospital wastewater with powdered activated carbon, ozone, and UV. <i>Environmental Science & Technology</i> , 2013 , 47, 7899-908	10.3	241
39	Occurrence and Fate of Antibiotics as Trace Contaminants in Wastewaters, Sewage Sludges, and Surface Waters. <i>Chimia</i> , 2003 , 57, 485-491	1.3	228
38	Extraction and determination of sulfonamides, macrolides, and trimethoprim in sewage sludge. <i>Journal of Chromatography A</i> , 2005 , 1085, 179-89	4.5	185

37	Multiresidue analysis of 88 polar organic micropollutants in ground, surface and wastewater using online mixed-bed multilayer solid-phase extraction coupled to high performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2012 , 1268, 74-83	4.5	167
36	The fate of selected micropollutants in a single-house MBR. <i>Water Research</i> , 2009 , 43, 2036-46	12.5	166
35	Prediction of micropollutant elimination during ozonation of a hospital wastewater effluent. <i>Water Research</i> , 2014 , 64, 134-148	12.5	158
34	Wastewater treatment plant resistomes are shaped by bacterial composition, genetic exchange, and upregulated expression in the effluent microbiomes. <i>ISME Journal</i> , 2019 , 13, 346-360	11.9	135
33	Mass flows of X-ray contrast media and cytostatics in hospital wastewater. <i>Environmental Science & Technology</i> , 2009 , 43, 4810-7	10.3	107
32	Rapid Screening for Exposure to "Non-Target" Pharmaceuticals from Wastewater Effluents by Combining HRMS-Based Suspect Screening and Exposure Modeling. <i>Environmental Science & Technology</i> , 2016 , 50, 6698-707	10.3	105
31	Effect of operational and water quality parameters on conventional ozonation and the advanced oxidation process O/HO: Kinetics of micropollutant abatement, transformation product and bromate formation in a surface water. <i>Water Research</i> , 2017 , 122, 234-245	12.5	100
30	Challenge of high polarity and low concentrations in analysis of cytostatics and metabolites in wastewater by hydrophilic interaction chromatography/tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2009 , 1216, 1100-8	4.5	95
29	Best available technologies and treatment trains to address current challenges in urban wastewater reuse for irrigation of crops in EU countries. <i>Science of the Total Environment</i> , 2020 , 710, 136312	10.2	86
28	Reaction of EDTA and Related Aminocarboxylate Chelating Agents with CollOOH (Heterogenite) and MnIIIOOH (Manganite). <i>Environmental Science & Technology</i> , 1998 , 32, 2923-2930	10.3	79
27	Pathogens and pharmaceuticals in source-separated urine in eThekweni, South Africa. <i>Water Research</i> , 2015 , 85, 57-65	12.5	60
26	Water reuse: >90% water yield in MBR/RO through concentrate recycling and CO2 addition as scaling control. <i>Water Research</i> , 2011 , 45, 6141-51	12.5	60
25	Oxidation of cetirizine, fexofenadine and hydrochlorothiazide during ozonation: Kinetics and formation of transformation products. <i>Water Research</i> , 2016 , 94, 350-362	12.5	59
24	Multiple-criteria decision analysis reveals high stakeholder preference to remove pharmaceuticals from hospital wastewater. <i>Environmental Science & Technology</i> , 2011 , 45, 3848-57	10.3	58
23	Non-target screening to trace ozonation transformation products in a wastewater treatment train including different post-treatments. <i>Water Research</i> , 2018 , 142, 267-278	12.5	58
22	Determination of EDTA, NTA, and Other Amino Carboxylic Acids and Their Co(II) and Co(III) Complexes by Capillary Electrophoresis. <i>Environmental Science & Technology</i> , 1997 , 31, 2656-2664	10.3	55
21	Technologies for the treatment of source-separated urine in the eThekweni Municipality. <i>Water SA</i> , 2015 , 41, 212	1.3	50
20	Reactions of aliphatic amines with ozone: Kinetics and mechanisms. <i>Water Research</i> , 2019 , 157, 514-528	12.5	41

19	Convective transport of acids and bases in porous media. <i>Water Resources Research</i> , 1994 , 30, 2937-2944	5.4	30
18	Occurrence and Fate of Fluoroquinolone, Macrolide, and Sulfonamide Antibiotics during Wastewater Treatment and in Ambient Waters in Switzerland. <i>ACS Symposium Series</i> , 2001 , 56-69	0.4	27
17	Decreased UV absorbance as an indicator of micropollutant removal efficiency in wastewater treated with ozone. <i>Water Science and Technology</i> , 2015 , 71, 980-5	2.2	25
16	Wood-based activated biochar to eliminate organic micropollutants from biologically treated wastewater. <i>Science of the Total Environment</i> , 2020 , 730, 138417	10.2	23
15	Spatial and Temporal Patterns of Pharmaceuticals in the Aquatic Environment: A Review. <i>Geography Compass</i> , 2008 , 2, 920-955	2.4	19
14	Removal of pharmaceuticals from nitrified urine by adsorption on granular activated carbon. <i>Water Research X</i> , 2020 , 9, 100057	8.1	16
13	Hospital-Use Pharmaceuticals in Swiss Waters Modeled at High Spatial Resolution. <i>Environmental Science & Technology</i> , 2016 , 50, 4742-51	10.3	15
12	Polar Organic Micropollutants In The Water Cycle 2008 , 103-116		14
11	REMOVAL OF PHARMACEUTICALS AND PERSONAL CARE PRODUCTS: RESULTS OF THE POSEIDON PROJECT. <i>Proceedings of the Water Environment Federation</i> , 2005 , 2005, 227-243		11
10	Formation of transformation products during ozonation of secondary wastewater effluent and their fate in post-treatment: From laboratory- to full-scale. <i>Water Research</i> , 2021 , 200, 117200	12.5	11
9	Exploring the Behaviour of Emerging Contaminants in the Water Cycle using the Capabilities of High Resolution Mass Spectrometry. <i>Chimia</i> , 2014 , 68, 793-8	1.3	10
8	Removal of pharmaceuticals from human urine during storage, aerobic biological treatment, and activated carbon adsorption to produce a safe fertilizer. <i>Resources, Conservation and Recycling</i> , 2021 , 166, 105341	11.9	9
7	Unraveling the riverine antibiotic resistome: The downstream fate of anthropogenic inputs. <i>Water Research</i> , 2021 , 197, 117050	12.5	9
6	Reactions of pyrrole, imidazole, and pyrazole with ozone: kinetics and mechanisms. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 976-992	4.2	8
5	Characterization of advanced wastewater treatment with ozone and activated carbon using LC-HRMS based non-target screening with automated trend assignment. <i>Water Research</i> , 2021 , 200, 117209	12.5	8
4	Quantitative description of multi-component reactive transport in porous media: An empirical approach. <i>Transport in Porous Media</i> , 1996 , 25, 193-204	3.1	7
3	Oxidation of 51 micropollutants during drinking water ozonation: Formation of transformation products and their fate during biological post-filtration. <i>Water Research</i> , 2021 , 207, 117812	12.5	6
2	Quantitative Mass Flows of Selected Xenobiotics in Urban Waters and Waste Water Treatment Plants. <i>Environmental Pollution</i> , 2010 , 3-26	0	4

- 1 Evaluation of a full-scale wastewater treatment plant with ozonation and different post-treatments using a broad range of in vitro and in vivo bioassays.. *Water Research*, **2022**, 212, 118084^{12.5} 1