Christa S Mcardell

List of Publications by Year
in descending order

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54	12,137	94269 37	168136 53
papers	citations	h-index	g-index

54	54	54	9945
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Urban wastewater treatment plants as hotspots for the release of antibiotics in the environment: A review. Water Research, 2013, 47, 957-995.	5.3	1,518
2	Biological degradation of pharmaceuticals in municipal wastewater treatment: Proposing a classification scheme. Water Research, 2006, 40, 1686-1696.	5.3	948
3	Removal of pharmaceuticals and fragrances in biological wastewater treatment. Water Research, 2005, 39, 3139-3152.	5.3	729
4	Elimination of Organic Micropollutants in a Municipal Wastewater Treatment Plant Upgraded with a Full-Scale Post-Ozonation Followed by Sand Filtration. Environmental Science & Technology, 2009, 43, 7862-7869.	4.6	726
5	Oxidation of Pharmaceuticals during Ozonation of Municipal Wastewater Effluents:Â A Pilot Study. Environmental Science & Technology, 2005, 39, 4290-4299.	4.6	713
6	Fate of sulfonamides, macrolides, and trimethoprim in different wastewater treatment technologies. Science of the Total Environment, 2007, 372, 361-371.	3.9	663
7	Occurrence and Sorption Behavior of Sulfonamides, Macrolides, and Trimethoprim in Activated Sludge Treatment. Environmental Science & Technology, 2005, 39, 3981-3989.	4.6	625
8	Consolidated vs new advanced treatment methods for the removal of contaminants of emerging concern from urban wastewater. Science of the Total Environment, 2019, 655, 986-1008.	3.9	515
9	Occurrence and Fate of Macrolide Antibiotics in Wastewater Treatment Plants and in the Glatt Valley Watershed, Switzerland. Environmental Science & Technology, 2003, 37, 5479-5486.	4.6	419
10	Environmental toxicology and risk assessment of pharmaceuticals from hospital wastewater. Water Research, 2011, 45, 75-92.	5.3	407
11	Hospital Wastewater Treatment by Membrane Bioreactor: Performance and Efficiency for Organic Micropollutant Elimination. Environmental Science & Technology, 2012, 46, 1536-1545.	4.6	407
12	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. Water Research, 2018, 129, 486-498.	5.3	361
13	Quantification of veterinary antibiotics (sulfonamides and trimethoprim) in animal manure by liquid chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2002, 952, 111-120.	1.8	337
14	Elimination of Micropollutants during Post-Treatment of Hospital Wastewater with Powdered Activated Carbon, Ozone, and UV. Environmental Science & Technology, 2013, 47, 7899-7908.	4.6	309
15	Wastewater treatment plant resistomes are shaped by bacterial composition, genetic exchange, and upregulated expression in the effluent microbiomes. ISME Journal, 2019, 13, 346-360.	4.4	289
16	Trace Determination of Macrolide and Sulfonamide Antimicrobials, a Human Sulfonamide Metabolite, and Trimethoprim in Wastewater Using Liquid Chromatography Coupled to Electrospray Tandem Mass Spectrometry. Analytical Chemistry, 2004, 76, 4756-4764.	3.2	283
17	Occurrence and Fate of Antibiotics as Trace Contaminants in Wastewaters, Sewage Sludges, and Surface Waters. Chimia, 2003, 57, 485-491.	0.3	259
18	Extraction and determination of sulfonamides, macrolides, and trimethoprim in sewage sludge. Journal of Chromatography A, 2005, 1085, 179-189.	1.8	205

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19	The fate of selected micropollutants in a single-house MBR. Water Research, 2009, 43, 2036-2046.	5.3	199
20	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 chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2012, 1268, 74-83.	1.8	198
21	Prediction of micropollutant elimination during ozonation of a hospital wastewater effluent. Water Research, 2014, 64, 134-148.	5.3	198
22	Best available technologies and treatment trains to address current challenges in urban wastewater reuse for irrigation of crops in EU countries. Science of the Total Environment, 2020, 710, 136312.	3.9	167
23	Effect of operational and water quality parameters on conventional ozonation and the advanced oxidation process O3/H2O2: Kinetics of micropollutant abatement, transformation product and bromate formation in a surface water. Water Research, 2017, 122, 234-245.	5.3	129
24	Mass Flows of X-ray Contrast Media and Cytostatics in Hospital Wastewater. Environmental Science & Technology, 2009, 43, 4810-4817.	4.6	125
25	Rapid Screening for Exposure to â€œNon-Targetâ€•Pharmaceuticals from Wastewater Effluents by Combining HRMS-Based Suspect Screening and Exposure Modeling. Environmental Science & Technology, 2016, 50, 6698-6707.	4.6	125
26	Challenge of high polarity and low concentrations in analysis of cytostatics and metabolites in wastewater by hydrophilic interaction chromatography/tandem mass spectrometry. Journal of Chromatography A, 2009, 1216, 1100-1108.	1.8	106
27	Non-target screening to trace ozonation transformation products in a wastewater treatment train including different post-treatments. Water Research, 2018, 142, 267-278.	5.3	105
28	Reaction of EDTA and Related Aminocarboxylate Chelating Agents with CoIIIOOH (Heterogenite) and MnIIIOOH (Manganite). Environmental Science & Technology, 1998, 32, 2923-2930.	4.6	88
29	Pathogens and pharmaceuticals in source-separated urine in eThekwini, South Africa. Water Research, 2015, 85, 57-65.	5.3	81
30	Oxidation of cetirizine, fexofenadine and hydrochlorothiazide during ozonation: Kinetics and formation of transformation products. Water Research, 2016, 94, 350-362.	5.3	75
31	Reactions of aliphatic amines with ozone: Kinetics and mechanisms. Water Research, 2019, 157, 514-528.	5.3	74
32	Technologies for the treatment of source-separated urine in the eThekwini Municipality. Water S A, 2015, 41, 212.	0.2	65
33	Water reuse: >90% water yield in MBR/RO through concentrate recycling and CO2 addition as scaling control. Water Research, 2011, 45, 6141-6151.	5.3	64
34	Determination of EDTA, NTA, and Other Amino Carboxylic Acids and Their Co(II) and Co(III) Complexes by Capillary Electrophoresis. Environmental Science & Technology, 1997, 31, 2656-2664.	4.6	61
35	Multiple-Criteria Decision Analysis Reveals High Stakeholder Preference to Remove Pharmaceuticals from Hospital Wastewater. Environmental Science & Technology, 2011, 45, 3848-3857.	4.6	60
36	Unraveling the riverine antibiotic resistome: The downstream fate of anthropogenic inputs. Water Research, 2021, 197, 117050.	5.3	50

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37	Wood-based activated biochar to eliminate organic micropollutants from biologically treated wastewater. Science of the Total Environment, 2020, 730, 138417.	3.9	42
38	Formation of transformation products during ozonation of secondary wastewater effluent and their fate in post-treatment: From laboratory- to full-scale. Water Research, 2021, 200, 117200.	5.3	39
39	Oxidation of 51 micropollutants during drinking water ozonation: Formation of transformation products and their fate during biological post-filtration. Water Research, 2021, 207, 117812.	5.3	36
40	Removal of pharmaceuticals from nitrified urine by adsorption on granular activated carbon. Water Research X, 2020, 9, 100057.	2.8	35
41	Characterization of advanced wastewater treatment with ozone and activated carbon using LC-HRMS based non-target screening with automated trend assignment. Water Research, 2021, 200, 117209.	5.3	34
42	Convective transport of acids and bases in porous media. Water Resources Research, 1994, 30, 2937-2944.	1.7	33
43	Occurrence and Fate of Fluoroquinolone, Macrolide, and Sulfonamide Antibiotics during Wastewater Treatment and in Ambient Waters in Switzerland. ACS Symposium Series, 2001, , 56-69.	0.5	33
44	Decreased UV absorbance as an indicator of micropollutant removal efficiency in wastewater treated with ozone. Water Science and Technology, 2015, 71, 980-985.	1.2	33
45	Removal of pharmaceuticals from human urine during storage, aerobic biological treatment, and activated carbon adsorption to produce a safe fertilizer. Resources, Conservation and Recycling, 2021, 166, 105341.	5.3	25
46	Spatial and Temporal Patterns of Pharmaceuticals in the Aquatic Environment: A Review. Geography Compass, 2008, 2, 920-955.	1.5	23
47	Polar Organic Micropollutants In The Water Cycle. , 2008, , 103-116.		20
48	Reactions of pyrrole, imidazole, and pyrazole with ozone: kinetics and mechanisms. Environmental Science: Water Research and Technology, 2020, 6, 976-992.	1.2	20
49	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.	5.3	20
50	Hospital-Use Pharmaceuticals in Swiss Waters Modeled at High Spatial Resolution. Environmental Science & Technology, 2016, 50, 4742-4751.	4.6	18
51	Exploring the Behaviour of Emerging Contaminants in the Water Cycle using the Capabilities of High Resolution Mass Spectrometry. Chimia, 2014, 68, 793.	0.3	15
52	REMOVAL OF PHARMACEUTICALS AND PERSONAL CARE PRODUCTS: RESULTS OF THE POSEIDON PROJECT. Proceedings of the Water Environment Federation, 2005, 2005, 227-243.	0.0	14
53	Quantitative description of multi-component reactive transport in porous media: An empirical approach. Transport in Porous Media, 1996, 25, 193-204.	1.2	9
54	Quantitative Mass Flows of Selected Xenobiotics in Urban Waters and Waste Water Treatment Plants. Environmental Pollution, 2010, , 3-26.	0.4	5