

Carsten Prasse

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.

47
papers

2,321
citations

25
h-index

48
g-index

49
ext. papers

2,761
ext. citations

9.1
avg. IF

5.34
L-index

#	Paper	IF	Citations
47	Is biological treatment a viable alternative for micropollutant removal in drinking water treatment processes?. <i>Water Research</i> , 2013 , 47, 5955-76	12.5	217
46	Spoilt for choice: A critical review on the chemical and biological assessment of current wastewater treatment technologies. <i>Water Research</i> , 2015 , 87, 237-70	12.5	205
45	Antiviral drugs in wastewater and surface waters: a new pharmaceutical class of environmental relevance?. <i>Environmental Science & Technology</i> , 2010 , 44, 1728-35	10.3	201
44	Oxidation of Benzene by Persulfate in the Presence of Fe(III)- and Mn(IV)-Containing Oxides: Stoichiometric Efficiency and Transformation Products. <i>Environmental Science & Technology</i> , 2016 , 50, 890-8	10.3	190
43	Biological surface coating and molting inhibition as mechanisms of TiO ₂ nanoparticle toxicity in <i>Daphnia magna</i> . <i>PLoS ONE</i> , 2011 , 6, e20112	3.7	149
42	Elimination of micropollutants and transformation products from a wastewater treatment plant effluent through pilot scale ozonation followed by various activated carbon and biological filters. <i>Water Research</i> , 2016 , 100, 580-592	12.5	133
41	Transformation of oxcarbazepine and human metabolites of carbamazepine and oxcarbazepine in wastewater treatment and sand filters. <i>Environmental Science & Technology</i> , 2014 , 48, 10208-16	10.3	87
40	Assessing the photochemical transformation pathways of acetaminophen relevant to surface waters: transformation kinetics, intermediates, and modelling. <i>Water Research</i> , 2014 , 53, 235-48	12.5	86
39	Biotransformation of the antiviral drugs acyclovir and penciclovir in activated sludge treatment. <i>Environmental Science & Technology</i> , 2011 , 45, 2761-9	10.3	86
38	Oxidation of the antiviral drug acyclovir and its biodegradation product carboxy-acyclovir with ozone: kinetics and identification of oxidation products. <i>Environmental Science & Technology</i> , 2012 , 46, 2169-78	10.3	80
37	Environmental risk assessment of ivermectin: A case study. <i>Integrated Environmental Assessment and Management</i> , 2010 , 6 Suppl, 567-87	2.5	76
36	Electrochemical Transformation of Trace Organic Contaminants in the Presence of Halide and Carbonate Ions. <i>Environmental Science & Technology</i> , 2016 , 50, 10143-52	10.3	73
35	Occurrence and fate of amisulpride, sulphiride, and lamotrigine in municipal wastewater treatment plants with biological treatment and ozonation. <i>Journal of Hazardous Materials</i> , 2016 , 320, 204-215	12.8	68
34	Identification of transformation products of antiviral drugs formed during biological wastewater treatment and their occurrence in the urban water cycle. <i>Water Research</i> , 2016 , 98, 75-83	12.5	62
33	Unexpected transformation of dissolved phenols to toxic dicarbonyls by hydroxyl radicals and UV light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2311-2316 ^{11.5}	11.5	56
32	The Role of Reactive Nitrogen Species in Sensitized Photolysis of Wastewater-Derived Trace Organic Contaminants. <i>Environmental Science & Technology</i> , 2019 , 53, 6483-6491	10.3	49
31	Co-occurrence of Photochemical and Microbiological Transformation Processes in Open-Water Unit Process Wetlands. <i>Environmental Science & Technology</i> , 2015 , 49, 14136-45	10.3	46

30	Environmental fate of the anthelmintic ivermectin in an aerobic sediment/water system. <i>Chemosphere</i> , 2009 , 77, 1321-5	8.4	44
29	Integrated Evaluation Concept to Assess the Efficacy of Advanced Wastewater Treatment Processes for the Elimination of Micropollutants and Pathogens. <i>Environmental Science & Technology</i> , 2017 , 51, 308-319	10.3	38
28	Toxication by Transformation in Conventional and Advanced Wastewater Treatment: The Antiviral Drug Acyclovir. <i>Environmental Science and Technology Letters</i> , 2015 , 2, 342-346	11	37
27	Investigation and risk evaluation of the occurrence of carbamazepine, oxcarbazepine, their human metabolites and transformation products in the urban water cycle. <i>Environmental Pollution</i> , 2017 , 225, 261-269	9.3	36
26	Oxypurinol - A novel marker for wastewater contamination of the aquatic environment. <i>Water Research</i> , 2015 , 74, 257-65	12.5	35
25	Evidence of co-metabolic bentazone transformation by methanotrophic enrichment from a groundwater-fed rapid sand filter. <i>Water Research</i> , 2018 , 129, 105-114	12.5	29
24	Chlorination of Phenols Revisited: Unexpected Formation of β -Unsaturated C-Dicarbonyl Ring Cleavage Products. <i>Environmental Science & Technology</i> , 2020 , 54, 826-834	10.3	27
23	What you extract is what you see: Optimising the preparation of water and wastewater samples for in vitro bioassays. <i>Water Research</i> , 2019 , 152, 47-60	12.5	26
22	Contamination and source assessment of metals, polychlorinated biphenyls, and polycyclic aromatic hydrocarbons in urban soils from Addis Ababa, Ethiopia. <i>Toxicological and Environmental Chemistry</i> , 2012 , 94, 1954-1979	1.4	20
21	Translocation of Sb and Ti in an undisturbed floodplain soil after application of Sb ₂ O ₃ and TiO ₂ nanoparticles to the surface. <i>Journal of Environmental Monitoring</i> , 2011 , 13, 1204-11		16
20	Trace Element Removal in Distributed Drinking Water Treatment Systems by Cathodic HO ₂ Production and UV Photolysis. <i>Environmental Science & Technology</i> , 2018 , 52, 195-204	10.3	15
19	Why Small Differences Matter: Elucidation of the Mechanisms Underlying the Transformation of 2OH- and 3OH-Carbamazepine in Contact with Sand Filter Material. <i>Environmental Science & Technology</i> , 2015 , 49, 10449-56	10.3	12
18	Exploring Trends of C and N Isotope Fractionation to Trace Transformation Reactions of Diclofenac in Natural and Engineered Systems. <i>Environmental Science & Technology</i> , 2016 , 50, 10933-10942	10.3	12
17	Exotic Electrophiles in Chlorinated and Chloraminated Water: When Conventional Kinetic Models and Reaction Pathways Fall Short. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 360-370	11	11
16	Ring-Cleavage Products Produced during the Initial Phase of Oxidative Treatment of Alkyl-Substituted Aromatic Compounds. <i>Environmental Science & Technology</i> , 2020 , 54, 8352-8361	10.3	10
15	Enhanced Treatment of Municipal Wastewater Effluents by Fe-TAML/HO ₂ : Efficiency of Micropollutant Abatement. <i>Environmental Science & Technology</i> , 2021 , 55, 3313-3321	10.3	9
14	Bioaccumulation of ivermectin from natural and artificial sediments in the benthic organism <i>Lumbriculus variegatus</i> . <i>Journal of Soils and Sediments</i> , 2010 , 10, 1611-1622	3.4	8
13	Microbial degradation pathways of the herbicide bentazone in filter sand used for drinking water treatment. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 521-532	4.2	7

12	Effect of Histone Lysine Methylation on DNA Lesion Reactivity in Nucleosome Core Particles. <i>Chemical Research in Toxicology</i> , 2019 , 32, 910-916	4	7
11	Removal of Organic and Inorganic Pollutants and Pathogens from Wastewater and Drinking Water Using Nanoparticles [A Review 2010 , 55-79		7
10	Formation and Fate of Carbonyls in Potable Water Reuse Systems. <i>Environmental Science & Technology</i> , 2020 , 54, 10895-10903	10.3	7
9	Characterizing the Chemical Landscape in Commercial E-Cigarette Liquids and Aerosols by Liquid Chromatography-High-Resolution Mass Spectrometry. <i>Chemical Research in Toxicology</i> , 2021 , 34, 2216-2226	4.6	6
8	In response: what are the challenges and prospects? An academic perspective. <i>Environmental Toxicology and Chemistry</i> , 2014 , 33, 2408-10	3.8	4
7	Ozonation products of zidovudine and thymidine in oxidative water treatment. <i>Water Research X</i> , 2021 , 11, 100090	8.1	3
6	Application of Orbitrap Mass Spectrometry for the Identification of Transformation Products of Trace Organic Contaminants Formed in the Environment. <i>Comprehensive Analytical Chemistry</i> , 2016 , 71, 263-282	1.9	3
5	Reactivity-directed analysis - a novel approach for the identification of toxic organic electrophiles in drinking water. <i>Environmental Sciences: Processes and Impacts</i> , 2021 , 23, 48-65	4.3	3
4	Reimagining safe drinking water on the basis of twenty-first-century science. <i>Nature Sustainability</i> ,	22.1	3
3	Aqueous ozonation of furans: Kinetics and transformation mechanisms leading to the formation of α,β -unsaturated dicarbonyl compounds. <i>Water Research</i> , 2021 , 203, 117487	12.5	2
2	Adaptation of selected models for describing competitive per- and polyfluoroalkyl substances breakthrough curves in groundwater treated by granular activated carbon.. <i>Journal of Hazardous Materials</i> , 2022 , 433, 128804	12.8	0
1	Response to Letter to the Editor Regarding Characterizing the Chemical Landscape in Commercial E-Cigarette Liquids and Aerosols by Liquid Chromatography-High-Resolution Mass Spectrometry.. <i>Chemical Research in Toxicology</i> , 2021 ,	4	0