

List of Publications by Year in
Descending Order

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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.

44 papers	2,211 citations	19 h-index	46 g-index
46 ext. papers	2,831 ext. citations	8.9 avg, IF	5.57 L-index

#	Paper	IF	Citations
44	Engineering of managed aquifer recharge systems to optimize biotransformation of trace organic chemicals. <i>Current Opinion in Environmental Science and Health</i> , 2022 , 27, 100343	8.1	1
43	Removal of Trace Organic Chemicals during Long-Term Biofilter Operation. <i>ACS ES&T Water</i> , 2021 , 1, 300-308		2
42	Fate and Transport of Viruses within a High-Rate Plug-Flow Biofilter Designed for Non-Membrane-Based Indirect Potable Reuse Applications. <i>ACS ES&T Water</i> , 2021 , 1, 1229-1239		
41	Micropollutants as internal probe compounds to assess UV fluence and hydroxyl radical exposure in UV/HO treatment. <i>Water Research</i> , 2021 , 195, 116940	12.5	3
40	Inferring trophic conditions in managed aquifer recharge systems from metagenomic data. <i>Science of the Total Environment</i> , 2021 , 772, 145512	10.2	
39	Ozone membrane contactors for water and wastewater treatment: A critical review on materials selection, mass transfer and process design. <i>Chemical Engineering Journal</i> , 2021 , 413, 127393	14.7	5
38	Assessment of Full-Scale Indirect Potable Water Reuse in El Port de la Selva, Spain. <i>Water (Switzerland)</i> , 2021 , 13, 325	3	2
37	Varying attenuation of trace organic chemicals in natural treatment systems - A review of key influential factors. <i>Chemosphere</i> , 2021 , 274, 129774	8.4	3
36	Analyzing (Initial) Biotransformation Reactions as an Organizing Principle for Unraveling the Extent of Trace Organic Chemical Biotransformation in Biofiltration Systems. <i>ACS ES&T Water</i> , 2021 , 1, 1921-1931		0
35	Quantitative microbial risk assessment of a non-membrane based indirect potable water reuse system using Bayesian networks. <i>Science of the Total Environment</i> , 2021 , 780, 146462	10.2	3
34	Differentiating between adsorption and biodegradation mechanisms while removing trace organic chemicals (TOrcs) in biological activated carbon (BAC) filters. <i>Science of the Total Environment</i> , 2020 , 743, 140567	10.2	8
33	Characterizing a novel in-situ oxygen delivery device for establishing controlled redox zonation within a high infiltration rate sequential biofilter. <i>Water Research</i> , 2020 , 182, 116039	12.5	4
32	Trends in conducting quantitative microbial risk assessments for water reuse systems: A review. <i>Microbial Risk Analysis</i> , 2020 , 16, 100132	1.6	3
31	Stimulating Nitrogen Biokinetics with the Addition of Hydrogen Peroxide to Secondary Effluent Biofiltration. <i>Clean Technologies</i> , 2020 , 2, 53-73	3.4	1
30	Developing a novel biofiltration treatment system by coupling high-rate infiltration trench technology with a plug-flow porous-media bioreactor. <i>Science of the Total Environment</i> , 2020 , 722, 137890	10.2	9
29	Role of reduced empty bed contact times and pre-treatment by coagulation with Fe(III) salts on the removal of trace organic compounds during sequential biofiltration. <i>Science of the Total Environment</i> , 2019 , 685, 220-228	10.2	3
28	Antibiotic microbial resistance (AMR) removal efficiencies by conventional and advanced wastewater treatment processes: A review. <i>Science of the Total Environment</i> , 2019 , 685, 596-608	10.2	101

27	Dynamics of Wastewater Effluent Contributions in Streams and Impacts on Drinking Water Supply via Riverbank Filtration in Germany-A National Reconnaissance. <i>Environmental Science & Technology</i> , 2019 , 53, 6154-6161	10.3	32
26	Elucidation of removal processes in sequential biofiltration (SBF) and soil aquifer treatment (SAT) by analysis of a broad range of trace organic chemicals (TOrcs) and their transformation products (TPs). <i>Water Research</i> , 2019 , 163, 114857	12.5	16
25	Investigating synergies in sequential biofiltration-based hybrid systems for the enhanced removal of trace organic chemicals from wastewater treatment plant effluents. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 1423-1435	4.2	5
24	Comparison of UV-AOPs (UV/H ₂ O ₂ , UV/PDS and UV/Chlorine) for TOrc removal from municipal wastewater effluent and optical surrogate model evaluation. <i>Chemical Engineering Journal</i> , 2019 , 362, 537-547	14.7	65
23	Capturing the oxic transformation of iopromide - A useful tool for an improved characterization of predominant redox conditions and the removal of trace organic compounds in biofiltration systems?. <i>Water Research</i> , 2019 , 152, 274-284	12.5	13
22	Biotransformation of trace organic chemicals in the presence of highly refractory dissolved organic carbon. <i>Chemosphere</i> , 2019 , 215, 33-39	8.4	20
21	UV/HO process stability and pilot-scale validation for trace organic chemical removal from wastewater treatment plant effluents. <i>Water Research</i> , 2018 , 136, 169-179	12.5	71
20	Evaluation of advanced oxidation processes for water and wastewater treatment - A critical review. <i>Water Research</i> , 2018 , 139, 118-131	12.5	1135
19	Establishing sequential managed aquifer recharge technology (SMART) for enhanced removal of trace organic chemicals: Experiences from field studies in Berlin, Germany. <i>Journal of Hydrology</i> , 2018 , 563, 1161-1168	6	36
18	Improving UV/H ₂ O ₂ performance following tertiary treatment of municipal wastewater. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 1321-1330	4.2	10
17	Removal of trace organic chemicals in wastewater effluent by UV/HO and UV/PDS. <i>Water Research</i> , 2018 , 145, 487-497	12.5	79
16	Microbiome-Triggered Transformations of Trace Organic Chemicals in the Presence of Effluent Organic Matter in Managed Aquifer Recharge (MAR) Systems. <i>Environmental Science & Technology</i> , 2018 , 52, 14342-14351	10.3	11
15	Evaluation of the short-term fate and transport of chemicals of emerging concern during soil-aquifer treatment using select transformation products as intrinsic redox-sensitive tracers. <i>Science of the Total Environment</i> , 2017 , 583, 10-18	10.2	14
14	Sequential biofiltration - A novel approach for enhanced biological removal of trace organic chemicals from wastewater treatment plant effluent. <i>Water Research</i> , 2017 , 127, 127-138	12.5	36
13	Advancing Sequential Managed Aquifer Recharge Technology (SMART) Using Different Intermediate Oxidation Processes. <i>Water (Switzerland)</i> , 2017 , 9, 221	3	29
12	Removal of Residual Dissolved Ozone with Manganese Dioxide for Process Control with UV254. <i>Ozone: Science and Engineering</i> , 2016 , 38, 79-85	2.4	3
11	Fate of bulk organic carbon and bromate during indirect water reuse involving ozone and subsequent aquifer recharge. <i>Journal of Water Reuse and Desalination</i> , 2016 , 6, 413-420	2.6	7
10	Determination of oxidant exposure during ozonation of secondary effluent to predict contaminant removal. <i>Water Research</i> , 2016 , 100, 508-516	12.5	28

9	Influence of wastewater particles on ozone degradation of trace organic contaminants. <i>Environmental Science & Technology</i> , 2015 , 49, 301-8	10.3	53
8	A hybrid process of biofiltration of secondary effluent followed by ozonation and short soil aquifer treatment for water reuse. <i>Water Research</i> , 2015 , 84, 315-22	12.5	38
7	Evaluation of the persistence of transformation products from ozonation of trace organic compounds - a critical review. <i>Water Research</i> , 2015 , 68, 150-70	12.5	133
6	Options and limitations of hydrogen peroxide addition to enhance radical formation during ozonation of secondary effluents. <i>Journal of Water Reuse and Desalination</i> , 2015 , 5, 8-16	2.6	21
5	Ozonation products of carbamazepine and their removal from secondary effluents by soil aquifer treatment--indications from column experiments. <i>Water Research</i> , 2014 , 49, 34-43	12.5	93
4	Evaluation of the prediction of trace organic compound removal during ozonation of secondary effluents using tracer substances and second order rate kinetics. <i>Water Research</i> , 2013 , 47, 6467-74	12.5	29
3	Tertiary treatment of Berlin WWTP effluents with ferrate (Fe(VI)). <i>Water Science and Technology</i> , 2013 , 68, 1665-71	2.2	7
2	Optimized removal of dissolved organic carbon and trace organic contaminants during combined ozonation and artificial groundwater recharge. <i>Water Research</i> , 2012 , 46, 6059-68	12.5	45
1	Impact of temperature on biodegradation of bulk and trace organics during soil passage in an indirect reuse system. <i>Water Science and Technology</i> , 2008 , 57, 987-94	2.2	31