Uwe Hbner

List of Publications by Citations

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	Evaluation of advanced oxidation processes for water and wastewater treatment - A critical review. *Water Research*, **2018**, 139, 118-131	12.5	1135
43	Evaluation of the persistence of transformation products from ozonation of trace organic compounds - a critical review. *Water Research*, **2015**, 68, 150-70	12.5	133
42	Antibiotic microbial resistance (AMR) removal efficiencies by conventional and advanced wastewater treatment processes: A review. *Science of the Total Environment*, **2019**, 685, 596-608	10.2	101
41	Ozonation products of carbamazepine and their removal from secondary effluents by soil aquifer treatment--indications from column experiments. *Water Research*, **2014**, 49, 34-43	12.5	93
40	Removal of trace organic chemicals in wastewater effluent by UV/HO and UV/PDS. *Water Research*, **2018**, 145, 487-497	12.5	79
39	UV/HO process stability and pilot-scale validation for trace organic chemical removal from wastewater treatment plant effluents. *Water Research*, **2018**, 136, 169-179	12.5	71
38	Comparison of UV-AOPs (UV/H2O2, UV/PDS and UV/Chlorine) for TOrC removal from municipal wastewater effluent and optical surrogate model evaluation. *Chemical Engineering Journal*, **2019**, 362, 537-547	14.7	65
37	Influence of wastewater particles on ozone degradation of trace organic contaminants. *Environmental Science & Technology*, **2015**, 49, 301-8	10.3	53
36	Optimized removal of dissolved organic carbon and trace organic contaminants during combined ozonation and artificial groundwater recharge. *Water Research*, **2012**, 46, 6059-68	12.5	45
35	A hybrid process of biofiltration of secondary effluent followed by ozonation and short soil aquifer treatment for water reuse. *Water Research*, **2015**, 84, 315-22	12.5	38
34	Sequential biofiltration - A novel approach for enhanced biological removal of trace organic chemicals from wastewater treatment plant effluent. *Water Research*, **2017**, 127, 127-138	12.5	36
33	Establishing sequential managed aquifer recharge technology (SMART) for enhanced removal of trace organic chemicals: Experiences from field studies in Berlin, Germany. *Journal of Hydrology*, **2018**, 563, 1161-1168	6	36
32	Dynamics of Wastewater Effluent Contributions in Streams and Impacts on Drinking Water Supply via Riverbank Filtration in Germany-A National Reconnaissance. *Environmental Science & Technology*, **2019**, 53, 6154-6161	10.3	32
31	Impact of temperature on biodegradation of bulk and trace organics during soil passage in an indirect reuse system. *Water Science and Technology*, **2008**, 57, 987-94	2.2	31
30	Evaluation of the prediction of trace organic compound removal during ozonation of secondary effluents using tracer substances and second order rate kinetics. *Water Research*, **2013**, 47, 6467-74	12.5	29
29	Advancing Sequential Managed Aquifer Recharge Technology (SMART) Using Different Intermediate Oxidation Processes. *Water (Switzerland)*, **2017**, 9, 221	3	29
28	Determination of oxidant exposure during ozonation of secondary effluent to predict contaminant removal. *Water Research*, **2016**, 100, 508-516	12.5	28

27	Options and limitations of hydrogen peroxide addition to enhance radical formation during ozonation of secondary effluents. *Journal of Water Reuse and Desalination*, **2015**, 5, 8-16	2.6	21
26	Biotransformation of trace organic chemicals in the presence of highly refractory dissolved organic carbon. *Chemosphere*, **2019**, 215, 33-39	8.4	20
25	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). *Water Research*, **2019**, 163, 114857	12.5	16
24	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. *Science of the Total Environment*, **2017**, 583, 10-18	10.2	14
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?. *Water Research*, **2019**, 152, 274-284	12.5	13
22	Microbiome-Triggered Transformations of Trace Organic Chemicals in the Presence of Effluent Organic Matter in Managed Aquifer Recharge (MAR) Systems. *Environmental Science & Technology*, **2018**, 52, 14342-14351	10.3	11
21	Improving UV/H2O2 performance following tertiary treatment of municipal wastewater. *Environmental Science: Water Research and Technology*, **2018**, 4, 1321-1330	4.2	10
20	Developing a novel biofiltration treatment system by coupling high-rate infiltration trench technology with a plug-flow porous-media bioreactor. *Science of the Total Environment*, **2020**, 722, 137890	10.2	9
19	Differentiating between adsorption and biodegradation mechanisms while removing trace organic chemicals (TOrCs) in biological activated carbon (BAC) filters. *Science of the Total Environment*, **2020**, 743, 140567	10.2	8
18	Tertiary treatment of Berlin WWTP effluents with ferrate (Fe(VI)). *Water Science and Technology*, **2013**, 68, 1665-71	2.2	7
17	Fate of bulk organic carbon and bromate during indirect water reuse involving ozone and subsequent aquifer recharge. *Journal of Water Reuse and Desalination*, **2016**, 6, 413-420	2.6	7
16	Investigating synergies in sequential biofiltration-based hybrid systems for the enhanced removal of trace organic chemicals from wastewater treatment plant effluents. *Environmental Science: Water Research and Technology*, **2019**, 5, 1423-1435	4.2	5
15	Ozone membrane contactors for water and wastewater treatment: A critical review on materials selection, mass transfer and process design. *Chemical Engineering Journal*, **2021**, 413, 127393	14.7	5
14	Characterizing a novel in-situ oxygen delivery device for establishing controlled redox zonation within a high infiltration rate sequential biofilter. *Water Research*, **2020**, 182, 116039	12.5	4
13	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. *Science of the Total Environment*, **2019**, 685, 220-228	10.2	3
12	Removal of Residual Dissolved Ozone with Manganese Dioxide for Process Control with UV254. *Ozone: Science and Engineering*, **2016**, 38, 79-85	2.4	3
11	Trends in conducting quantitative microbial risk assessments for water reuse systems: A review. *Microbial Risk Analysis*, **2020**, 16, 100132	1.6	3
10	Micropollutants as internal probe compounds to assess UV fluence and hydroxyl radical exposure in UV/HO treatment. *Water Research*, **2021**, 195, 116940	12.5	3

9	Varying attenuation of trace organic chemicals in natural treatment systems - A review of key influential factors. *Chemosphere*, **2021**, 274, 129774	8.4	3
8	Quantitative microbial risk assessment of a non-membrane based indirect potable water reuse system using Bayesian networks. *Science of the Total Environment*, **2021**, 780, 146462	10.2	3
7	Removal of Trace Organic Chemicals during Long-Term Biofilter Operation. *ACS ES&T Water*, **2021**, 1, 300-308		2
6	Assessment of Full-Scale Indirect Potable Water Reuse in El Port de la Selva, Spain. *Water (Switzerland)*, **2021**, 13, 325	3	2
5	Stimulating Nitrogen Biokinetics with the Addition of Hydrogen Peroxide to Secondary Effluent Biofiltration. *Clean Technologies*, **2020**, 2, 53-73	3.4	1
4	Engineering of managed aquifer recharge systems to optimize biotransformation of trace organic chemicals. *Current Opinion in Environmental Science and Health*, **2022**, 27, 100343	8.1	1
3	Analyzing (Initial) Biotransformation Reactions as an Organizing Principle for Unraveling the Extent of Trace Organic Chemical Biotransformation in Biofiltration Systems. *ACS ES&T Water*, **2021**, 1, 1921-1931		0
2	Fate and Transport of Viruses within a High-Rate Plug-Flow Biofilter Designed for Non-Membrane-Based Indirect Potable Reuse Applications. *ACS ES&T Water*, **2021**, 1, 1229-1239		
1	Inferring trophic conditions in managed aquifer recharge systems from metagenomic data. *Science of the Total Environment*, **2021**, 772, 145512	10.2	