

Uwe HÃ¼bner

List of Publications by Year in descending order

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58
papers

3,865
citations

313897

21
h-index

150159

56
g-index

61
all docs

61
docs citations

61
times ranked

5110
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of advanced oxidation processes for water and wastewater treatment – A critical review. <i>Water Research</i> , 2018, 139, 118-131.	11.4	2,075
2	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.	8.2	208
3	Evaluation of the persistence of transformation products from ozonation of trace organic compounds – A critical review. <i>Water Research</i> , 2015, 68, 150-170.	11.4	181
4	Removal of trace organic chemicals in wastewater effluent by UV/H ₂ O ₂ and UV/PDS. <i>Water Research</i> , 2018, 145, 487-497.	11.4	136
5	Comparison of UV-AOPs (UV/H ₂ O ₂ , UV/PDS and UV/Chlorine) for TOxC removal from municipal wastewater effluent and optical surrogate model evaluation. <i>Chemical Engineering Journal</i> , 2019, 362, 537-547.	13.0	124
6	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.	11.4	121
7	UV/H ₂ O ₂ process stability and pilot-scale validation for trace organic chemical removal from wastewater treatment plant effluents. <i>Water Research</i> , 2018, 136, 169-179.	11.4	105
8	Influence of Wastewater Particles on Ozone Degradation of Trace Organic Contaminants. <i>Environmental Science & Technology</i> , 2015, 49, 301-308.	10.5	65
9	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.	10.5	53
10	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.	11.4	52
11	Optimized removal of dissolved organic carbon and trace organic contaminants during combined ozonation and artificial groundwater recharge. <i>Water Research</i> , 2012, 46, 6059-6068.	11.4	50
12	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.	5.6	50
13	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, 315-322.	11.4	48
14	Advancing Sequential Managed Aquifer Recharge Technology (SMART) Using Different Intermediate Oxidation Processes. <i>Water (Switzerland)</i> , 2017, 9, 221.	2.8	41
15	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, 6467-6474.	11.4	40
16	Synergistic Nanowire-Enhanced Electroporation and Electrochlorination for Highly Efficient Water Disinfection. <i>Environmental Science & Technology</i> , 2022, 56, 10925-10934.	10.5	39
17	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.	2.3	38
18	Determination of oxidant exposure during ozonation of secondary effluent to predict contaminant removal. <i>Water Research</i> , 2016, 100, 508-516.	11.4	35

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19	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.	11.4	29
20	Biotransformation of trace organic chemicals in the presence of highly refractory dissolved organic carbon. <i>Chemosphere</i> , 2019, 215, 33-39.	8.4	28
21	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.	13.0	25
22	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.	8.2	19
23	Varying attenuation of trace organic chemicals in natural treatment systems – A review of key influential factors. <i>Chemosphere</i> , 2021, 274, 129774.	8.4	19
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. <i>Science of the Total Environment</i> , 2017, 583, 10-18.	8.2	18
25	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.	11.4	17
26	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.	10.5	16
27	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.	2.2	15
28	Micropollutants as internal probe compounds to assess UV fluence and hydroxyl radical exposure in UV/H ₂ O ₂ treatment. <i>Water Research</i> , 2021, 195, 116940.	11.4	14
29	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.	2.3	13
30	Trends in conducting quantitative microbial risk assessments for water reuse systems: A review. <i>Microbial Risk Analysis</i> , 2020, 16, 100132.	2.1	13
31	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.	8.2	13
32	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.	8.2	12
33	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.	4.5	11
34	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.	4.8	10
35	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.	2.2	9
36	Ozone Consumption by Soils: A Critical Factor in <i>In Situ</i> Ozonation Processes. <i>ACS ES&T Water</i> , 2021, 1, 2403-2411.	4.8	9

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37	Chlorination of isothiazolinone biocides: kinetics, reactive species, pathway, and toxicity evolution. <i>Water Research</i> , 2022, 223, 119021.	11.4	9
38	Stable isotope labeling for detection of ozonation byproducts in effluent organic matter with FT-ICR-MS. <i>Water Research</i> , 2023, 229, 119477.	11.4	9
39	Peroxymonosulfate activation by a bimetallic catalyst with Fe nanoclusters and Co single-atoms on C ₃ N ₄ (FeNCCoSA-C ₃ N ₄) for oxidation of organic pollutants via radical and nonradical pathways. <i>Chemical Engineering Journal</i> , 2023, 473, 145206.	13.0	9
40	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.	11.4	8
41	Advanced oxidation processes for removal of monocyclic aromatic hydrocarbon from water: Effects of O ₃ /H ₂ O ₂ and UV/H ₂ O ₂ treatment on product formation and biological post-treatment. <i>Journal of Hazardous Materials</i> , 2023, 450, 131066.	12.6	8
42	Tertiary treatment of Berlin WWTP effluents with ferrate (Fe(VI)). <i>Water Science and Technology</i> , 2013, 68, 1665-1671.	2.5	7
43	Ultrasonic degradation of GenX (HFPO-DA) – Performance comparison to PFOA and PFOS at high frequencies. <i>Chemical Engineering Journal</i> , 2023, 472, 144630.	13.0	7
44	Removal of Residual Dissolved Ozone with Manganese Dioxide for Process Control with UV ₂₅₄ . <i>Ozone: Science and Engineering</i> , 2016, 38, 79-85.	2.6	6
45	Assessment of Full-Scale Indirect Potable Water Reuse in El Port de la Selva, Spain. <i>Water (Switzerland)</i> , 2021, 13, 325.	2.8	6
46	Roles of radical species in vacuum-UV/UV/peroxydisulfate advanced oxidation processes and contributions of the species to contaminant degradation at different water depths. <i>Journal of Hazardous Materials</i> , 2023, 446, 130660.	12.6	6
47	Removal of Trace Organic Chemicals during Long-Term Biofilter Operation. <i>ACS ES&T Water</i> , 2021, 1, 300-308.	4.8	5
48	Assessing the Chemical-Free Oxidation of Trace Organic Chemicals by VUV/UV as an Alternative to Conventional UV/H ₂ O ₂ . <i>Environmental Science & Technology</i> , 2024, 58, 7113-7123.	10.5	5
49	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.	8.2	4
50	Stimulating Nitrogen Biokinetics with the Addition of Hydrogen Peroxide to Secondary Effluent Biofiltration. <i>Clean Technologies</i> , 2020, 2, 53-73.	4.3	4
51	Inferring trophic conditions in managed aquifer recharge systems from metagenomic data. <i>Science of the Total Environment</i> , 2021, 772, 145512.	8.2	4
52	Isotopically labeled ozone: A new approach to elucidate the formation of ozonation products. <i>Water Research</i> , 2023, 233, 119740.	11.4	4
53	A novel catalytic filtration process using MnO ₂ @sand and peroxymonosulfate for unselective removal of organic contaminants from water. <i>Chemical Engineering Journal</i> , 2023, 476, 146636.	13.0	4
54	Ozonation of Gabapentin in Water – Investigating Reaction Kinetics and Transformation Mechanisms of a Primary Amine Using Isotopically Labeled Ozone. <i>Environmental Science & Technology</i> , 2023, 57, 18825-18833.	10.5	3

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55	Advanced oxidation processes for water and wastewater treatment – Guidance for systematic future research. Heliyon, 2024, 10, e30402.	3.3	3
56	Passive Ozone Injection through Gas-Permeable Membranes for Advanced <i>In Situ</i> Groundwater Remediation. ACS ES&T Engineering, 2023, 3, 706-713.	7.8	2
57	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.	4.8	0
58	Negligible adsorption and toxicity of microplastic fibers in disinfected secondary effluents. Environmental Pollution, 2024, 356, 124377.	7.7	0