

Uwe Häbner

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 | 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 |
| 2 | Advanced oxidation processes for water and wastewater treatment – Guidance for systematic future research. <i>Heliyon</i> , 2024, 10, e30402. | 3.3 | 3 |
| 3 | Negligible adsorption and toxicity of microplastic fibers in disinfected secondary effluents. <i>Environmental Pollution</i> , 2024, 356, 124377. | 7.7 | 0 |
| 4 | 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 |
| 5 | 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 |
| 6 | Isotopically labeled ozone: A new approach to elucidate the formation of ozonation products. <i>Water Research</i> , 2023, 233, 119740. | 11.4 | 4 |
| 7 | 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 |
| 8 | Passive Ozone Injection through Gas-Permeable Membranes for Advanced <i>In Situ</i> Groundwater Remediation. <i>ACS ES&T Engineering</i> , 2023, 3, 706-713. | 7.8 | 2 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Synergistic Nanowire-Enhanced Electroporation and Electrochlorination for Highly Efficient Water Disinfection. <i>Environmental Science & Technology</i> , 2022, 56, 10925-10934. | 10.5 | 39 |
| 15 | Chlorination of isothiazolinone biocides: kinetics, reactive species, pathway, and toxicity evolution. <i>Water Research</i> , 2022, 223, 119021. | 11.4 | 9 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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. | 4.8 | 0 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | Inferring trophic conditions in managed aquifer recharge systems from metagenomic data. <i>Science of the Total Environment</i> , 2021, 772, 145512. | 8.2 | 4 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Removal of Trace Organic Chemicals during Long-Term Biofilter Operation. <i>ACS ES&T Water</i> , 2021, 1, 300-308. | 4.8 | 5 |
| 26 | Differentiating between adsorption and biodegradation mechanisms while removing trace organic chemicals (TOCs) in biological activated carbon (BAC) filters. <i>Science of the Total Environment</i> , 2020, 743, 140567. | 8.2 | 19 |
| 27 | 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 |
| 28 | Trends in conducting quantitative microbial risk assessments for water reuse systems: A review. <i>Microbial Risk Analysis</i> , 2020, 16, 100132. | 2.1 | 13 |
| 29 | Stimulating Nitrogen Biokinetics with the Addition of Hydrogen Peroxide to Secondary Effluent Biofiltration. <i>Clean Technologies</i> , 2020, 2, 53-73. | 4.3 | 4 |
| 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. | 8.2 | 13 |
| 31 | Elucidation of removal processes in sequential biofiltration (SBF) and soil aquifer treatment (SAT) by analysis of a broad range of trace organic chemicals (TOCs) and their transformation products (TPs). <i>Water Research</i> , 2019, 163, 114857. | 11.4 | 29 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | Comparison of UV-AOPs (UV/H ₂ O ₂ , UV/PDS and UV/Chlorine) for TOC removal from municipal wastewater effluent and optical surrogate model evaluation. <i>Chemical Engineering Journal</i> , 2019, 362, 537-547. | 13.0 | 124 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | Biotransformation of trace organic chemicals in the presence of highly refractory dissolved organic carbon. <i>Chemosphere</i> , 2019, 215, 33-39. | 8.4 | 28 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | Advancing Sequential Managed Aquifer Recharge Technology (SMART) Using Different Intermediate Oxidation Processes. <i>Water (Switzerland)</i> , 2017, 9, 221. | 2.8 | 41 |
| 48 | 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 |
| 49 | Determination of oxidant exposure during ozonation of secondary effluent to predict contaminant removal. <i>Water Research</i> , 2016, 100, 508-516. | 11.4 | 35 |
| 50 | 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 |
| 51 | 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 |
| 52 | Influence of Wastewater Particles on Ozone Degradation of Trace Organic Contaminants. <i>Environmental Science & Technology</i> , 2015, 49, 301-308. | 10.5 | 65 |
| 53 | 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 |
| 54 | 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 |

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|----|---|------|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | Tertiary treatment of Berlin WWTP effluents with ferrate (Fe(VI)). <i>Water Science and Technology</i> , 2013, 68, 1665-1671. | 2.5 | 7 |
| 58 | 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 |