# Frederik Zietzschmann

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 33 papers | 1,392 citations | 430843 18 h-index | 395678 33 g-index |
| 33 all docs | 33 docs citations | 33 times ranked | 1431 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Direct comparison of ozonation and adsorption onto powdered activated carbon for micropollutant removal in advanced wastewater treatment. Water Research, 2014, 55, 185-193. | 11.3 | 279 |
| 2 | Granular activated carbon adsorption of organic micro-pollutants in drinking water and treated wastewater â€“ Aligning breakthrough curves and capacities. Water Research, 2016, 92, 180-187. | 11.3 | 136 |
| 3 | Impact of EfOM size on competition in activated carbon adsorption of organic micro-pollutants from treated wastewater. Water Research, 2014, 65, 297-306. | 11.3 | 104 |
| 4 | Estimating organic micro-pollutant removal potential of activated carbons using UV absorption and carbon characteristics. Water Research, 2014, 56, 48-55. | 11.3 | 91 |
| 5 | Impacts of coagulation on the adsorption of organic micropollutants onto powdered activated carbon in treated domestic wastewater. Chemosphere, 2015, 125, 198-204. | 8.2 | 69 |
| 6 | Pilot-Scale Investigation of Micropollutant Removal with Granular and Powdered Activated Carbon. Water, Air, and Soil Pollution, 2015, 226, 1. | 2.4 | 63 |
| 7 | Influence of dissolved organic matter and activated carbon pore characteristics on organic micropollutant desorption. Water Research, 2018, 133, 123-131. | 11.3 | 60 |
| 8 | Comparing and modeling organic micro-pollutant adsorption onto powdered activated carbon in different drinking waters and WWTP effluents. Water Research, 2016, 102, 190-201. | 11.3 | 55 |
| 9 | Impacts of ozonation on the competition between organic micro-pollutants and effluent organic matter in powdered activated carbon adsorption. Water Research, 2015, 84, 153-160. | 11.3 | 50 |
| 10 | The benefits of powdered activated carbon recirculation for micropollutant removal in advanced wastewater treatment. Water Research, 2016, 91, 97-103. | 11.3 | 43 |
| 11 | Anthropogenic organic micro-pollutants and pathogens in the urban water cycle: assessment, barriers and risk communication (ASKURIS). Environmental Sciences Europe, 2013, 25, . | 11.0 | 42 |
| 12 | Targeted testing of activated carbons for advanced wastewater treatment. Chemical Engineering Journal, 2014, 257, 184-190. | 12.7 | 42 |
| 13 | Fluoride removal by Ca-Al-CO3 layered double hydroxides at environmentally-relevant concentrations. Chemosphere, 2020, 243, 125307. | 8.2 | 35 |
| 14 | Projecting competition between 2-methylisoborneol and natural organic matter in adsorption onto activated carbon from ozonated source waters. Water Research, 2020, 173, 115574. | 11.3 | 34 |
| 15 | Impact of different DOM size fractions on the desorption of organic micropollutants from activated carbon. Water Research, 2019, 161, 161-170. | 11.3 | 32 |
| 16 | Rapid small-scale column testing of granular activated carbon for organic micro-pollutant removal in treated domestic wastewater. Water Science and Technology, 2014, 70, 1271-1278. | 2.5 | 31 |
| 17 | Lab-testing, predicting, and modeling multi-stage activated carbon adsorption of organic micro-pollutants from treated wastewater. Water Research, 2015, 83, 52-60. | 11.3 | 25 |
| 18 | Quantification and isotherm modelling of competitive phosphate and silicate adsorption onto micro-sized granular ferric hydroxide. RSC Advances, 2019, 9, 23642-23651. | 3.6 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Competition in chromate adsorption onto micro-sized granular ferric hydroxide. Chemosphere, 2019, 218, 749-757. | 8.2 | 21 |
| 20 | Integrating Micro-Pollutant Removal by Powdered Activated Carbon into Deep Bed Filtration. Water, Air, and Soil Pollution, 2014, 225, 1. | 2.4 | 19 |
| 21 | How properties of low molecular weight model competitors impact organic micropollutant adsorption onto activated carbon at realistically asymmetric concentrations. Water Research, 2021, 202, 117443. | 11.3 | 19 |
| 22 | Organic micropollutant desorption in various water matrices - Activated carbon pore characteristics determine the reversibility of adsorption. Chemosphere, 2019, 237, 124415. | 8.2 | 16 |
| 23 | Understanding and Control of Biopolymer Fouling in Ultrafiltration of Different Water Types. Water (Switzerland), 2017, 9, 298. | 2.7 | 15 |
| 24 | Simulating Effluent Organic Matter Competition in Micropollutant Adsorption onto Activated Carbon Using a Surrogate Competitor. Environmental Science & Technology, 2018, 52, 7859-7866. | 10.0 | 15 |
| 25 | Fate of Trace Organic Compounds in Granular Activated Carbon (GAC) Adsorbers for Drinking Water Treatment. Water (Switzerland), 2017, 9, 479. | 2.7 | 14 |
| 26 | Fast empirical lab method for performance projections of large-scale powdered activated carbon re-circulation plants. Chemosphere, 2019, 215, 563-573. | 8.2 | 13 |
| 27 | Characterization of activated carbons for water treatment using TGA-FTIR for analysis of oxygen-containing functional groups. Applied Water Science, 2022, 12, . | 5.6 | 13 |
| 28 | Fluoride removal from water by Ca-Al-CO3 layered double hydroxides and simultaneous acidification. Journal of Water Process Engineering, 2021, 40, 101957. | 5.6 | 10 |
| 29 | Stratification of Granular Activated Carbon Filters for Advanced Wastewater Treatment. Water, Air, and Soil Pollution, 2015, 226, 1. | 2.4 | 7 |
| 30 | Unraveling competition versus adsorbability of dissolved organic matter against organic micropollutants onto activated carbon. Separation and Purification Technology, 2022, 292, 120942. | 7.9 | 7 |
| 31 | Linking UF reversible and irreversible fouling to the water quality of surface water and treated municipal wastewater. Desalination and Water Treatment, 2014, 52, 7598-7608. | 1.0 | 6 |
| 32 | Intra aquifer variations in pesticide sorption during a field injection experiment. Journal of Contaminant Hydrology, 2022, 248, 104015. | 3.3 | 3 |
| 33 | Adsorptive Removal of Pharmaceutically Active Compounds from Wastewater. Handbook of Environmental Chemistry, 2020, , 239-267. | 0.4 | 1 |