Alexander Sperlich

List of Publications by Citations

21 papers	835 citations	13 h-index	22 g-index
22 ext. papers	937 ext. citations	8.1 avg, IF	4 L-index

#	Paper	IF	Citations
21	Breakthrough behavior of granular ferric hydroxide (GFH) fixed-bed adsorption filters: modeling and experimental approaches. *Water Research*, **2005**, 39, 1190-8	12.5	120
20	Combination of granular activated carbon adsorption and deep-bed filtration as a single advanced wastewater treatment step for organic micropollutant and phosphorus removal. *Water Research*, **2016**, 92, 131-9	12.5	108
19	Impact of EfOM size on competition in activated carbon adsorption of organic micro-pollutants from treated wastewater. *Water Research*, **2014**, 65, 297-306	12.5	81
18	Estimating organic micro-pollutant removal potential of activated carbons using UV absorption and carbon characteristics. *Water Research*, **2014**, 56, 48-55	12.5	77
17	Predicting anion breakthrough in granular ferric hydroxide (GFH) adsorption filters. *Water Research* , **2008**, 42, 2073-82	12.5	71
16	UV254 absorbance as real-time monitoring and control parameter for micropollutant removal in advanced wastewater treatment with powdered activated carbon. *Water Research*, **2016**, 94, 240-245	12.5	67
15	Impacts of coagulation on the adsorption of organic micropollutants onto powdered activated carbon in treated domestic wastewater. *Chemosphere*, **2015**, 125, 198-204	8.4	60
14	Integrating organic micropollutant removal into tertiary filtration: Combining PAC adsorption with advanced phosphorus removal. *Water Research*, **2015**, 84, 58-65	12.5	48
13	Anthropogenic organic micro-pollutants and pathogens in the urban water cycle: assessment, barriers and risk communication (ASKURIS). *Environmental Sciences Europe*, **2013**, 25, 20		38
12	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
11	Targeted testing of activated carbons for advanced wastewater treatment. *Chemical Engineering Journal*, **2014**, 257, 184-190	14.7	36
10	Integrating Micro-Pollutant Removal by Powdered Activated Carbon into Deep Bed Filtration. *Water, Air, and Soil Pollution*, **2014**, 225, 1	2.6	19
9	Trace Organic Removal during River Bank Filtration for Two Types of Sediment. *Water (Switzerland)* , **2018**, 10, 1736	3	14
8	A model-based analysis of the reactive transport behaviour of 37 trace organic compounds during field-scale bank filtration. *Water Research*, **2020**, 173, 115523	12.5	12
7	Energy Efficient Operation of Variable Speed Submersible Pumps: Simulation of a Ground Water Well Field. *Water (Switzerland)*, **2018**, 10, 1255	3	11
6	Fate of Trace Organic Compounds in Granular Activated Carbon (GAC) Adsorbers for Drinking Water Treatment. *Water (Switzerland)*, **2017**, 9, 479	3	10
5	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

4	Stratification of Granular Activated Carbon Filters for Advanced Wastewater Treatment. *Water, Air, and Soil Pollution*, **2015**, 226, 1	2.6	6
3	Increasing Energy Efficiency in Water Collection Systems by Submersible PMSM Well Pumps. *Water (Switzerland)*, **2018**, 10, 1310	3	5
2	Deep-bed filters as post-treatment for ozonation in tertiary municipal wastewater treatment: impact of design and operation on treatment goals. *Environmental Science: Water Research and Technology*, **2021**, 7, 197-211	4.2	4
1	Capillary Nanofiltration under Anoxic Conditions as Post-Treatment after Bank Filtration. *Water (Switzerland)*, **2018**, 10, 1599	3	4