

Jörg E Drewes

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8387965/publications.pdf>

Version: 2024-02-01

205
papers

15,120
citations

19657

61
h-index

19749

117
g-index

209
all docs

209
docs citations

209
times ranked

13373
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.	11.3	1,891
2	Factors affecting the rejection of organic solutes during NF/RO treatment – a literature review. <i>Water Research</i> , 2004, 38, 2795-2809.	11.3	863
3	Fate of antibiotics during municipal water recycling treatment processes. <i>Water Research</i> , 2010, 44, 4295-4323.	11.3	613
4	Treatment of brackish produced water using carbon aerogel-based capacitive deionization technology. <i>Water Research</i> , 2008, 42, 2605-2617.	11.3	521
5	Effect of membrane fouling on transport of organic contaminants in NF/RO membrane applications. <i>Journal of Membrane Science</i> , 2006, 279, 165-175.	8.2	389
6	Rejection of organic micropollutants (disinfection by-products, endocrine disrupting compounds,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i> 113-121.	8.2	359
7	The role of membrane surface charge and solute physico-chemical properties in the rejection of organic acids by NF membranes. <i>Journal of Membrane Science</i> , 2005, 249, 227-234.	8.2	305
8	A multi-barrier osmotic dilution process for simultaneous desalination and purification of impaired water. <i>Journal of Membrane Science</i> , 2010, 362, 417-426.	8.2	287
9	Adsorption of hydrophobic compounds onto NF/RO membranes: an artifact leading to overestimation of rejection. <i>Journal of Membrane Science</i> , 2003, 221, 89-101.	8.2	265
10	Full scale co-digestion of wastewater sludge and food waste: Bottlenecks and possibilities. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 72, 354-362.	16.4	239
11	Fouling of nanofiltration and reverse osmosis membranes during municipal wastewater reclamation: Membrane autopsy results from pilot-scale investigations. <i>Journal of Membrane Science</i> , 2010, 353, 111-121.	8.2	228
12	A Changing Framework for Urban Water Systems. <i>Environmental Science & Technology</i> , 2013, 47, 10721-10726.	10.0	208
13	Sorption of emerging trace organic compounds onto wastewater sludge solids. <i>Water Research</i> , 2011, 45, 3417-3426.	11.3	203
14	Fate of Pharmaceuticals During Ground Water Recharge. <i>Ground Water Monitoring and Remediation</i> , 2003, 23, 64-72.	0.8	190
15	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.	8.0	187
16	Forward osmosis as a platform for resource recovery from municipal wastewater - A critical assessment of the literature. <i>Journal of Membrane Science</i> , 2017, 529, 195-206.	8.2	182
17	Co-digestion of food waste in municipal wastewater treatment plants: Effect of different mixtures on methane yield and hydrolysis rate constant. <i>Applied Energy</i> , 2015, 137, 250-255.	10.1	170
18	Rejection of Emerging Organic Micropollutants in Nanofiltration-Reverse Osmosis Membrane Applications. <i>Water Environment Research</i> , 2005, 77, 40-48.	2.7	168

#	ARTICLE	IF	CITATIONS
19	Comparing microfiltration-reverse osmosis and soil-aquifer treatment for indirect potable reuse of water. <i>Water Research</i> , 2003, 37, 3612-3621.	11.3	164
20	Indicator compounds for assessment of wastewater effluent contributions to flow and water quality. <i>Water Research</i> , 2011, 45, 1199-1212.	11.3	154
21	Produced Water in the Western United States: Geographical Distribution, Occurrence, and Composition. <i>Environmental Engineering Science</i> , 2008, 25, 239-246.	1.6	146
22	The role of organic matter in the removal of emerging trace organic chemicals during managed aquifer recharge. <i>Water Research</i> , 2010, 44, 449-460.	11.3	143
23	Sorption of ionized and neutral emerging trace organic compounds onto activated sludge from different wastewater treatment configurations. <i>Water Research</i> , 2012, 46, 1958-1968.	11.3	143
24	Beneficial use of co-produced water through membrane treatment: technical-economic assessment. <i>Desalination</i> , 2008, 225, 139-155.	8.2	129
25	Critical Review of Desalination Concentrate Management, Treatment and Beneficial Use. <i>Environmental Engineering Science</i> , 2013, 30, 502-514.	1.6	129
26	Dissolved Organic Carbon Influences Microbial Community Composition and Diversity in Managed Aquifer Recharge Systems. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6819-6828.	3.1	128
27	Viability of nanofiltration and ultra-low pressure reverse osmosis membranes for multi-beneficial use of methane produced water. <i>Separation and Purification Technology</i> , 2006, 52, 67-76.	7.9	126
28	Soil Aquifer Treatment (SAT) as a Natural and Sustainable Wastewater Reclamation/Reuse Technology: Fate of Wastewater Effluent Organic Matter (EfOM) and Trace Organic Compounds. <i>Environmental Monitoring and Assessment</i> , 2007, 129, 19-26.	2.7	126
29	Viability of a low-pressure nanofilter in treating recycled water for water reuse applications: A pilot-scale study. <i>Water Research</i> , 2007, 41, 3948-3958.	11.3	125
30	Effects of membrane degradation on the removal of pharmaceutically active compounds (PhACs) by NF/RO filtration processes. <i>Journal of Membrane Science</i> , 2009, 340, 16-25.	8.2	125
31	Attenuation of total organic carbon and unregulated trace organic chemicals in U.S. riverbank filtration systems. <i>Water Research</i> , 2010, 44, 4643-4659.	11.3	121
32	Co-digestion of food waste in a municipal wastewater treatment plant: Comparison of batch tests and full-scale experiences. <i>Waste Management</i> , 2016, 47, 28-33.	7.4	120
33	N-nitrosamine removal by reverse osmosis for indirect potable water reuse – A critical review based on observations from laboratory-, pilot- and full-scale studies. <i>Separation and Purification Technology</i> , 2012, 98, 503-515.	7.9	118
34	Applying Surrogates and Indicators to Assess Removal Efficiency of Trace Organic Chemicals during Chemical Oxidation of Wastewaters. <i>Environmental Science & Technology</i> , 2009, 43, 6242-6247.	10.0	117
35	Composite Geochemical Database for Coalbed Methane Produced Water Quality in the Rocky Mountain Region. <i>Environmental Science & Technology</i> , 2011, 45, 7655-7663.	10.0	107
36	Mechanisms of Pathogenic Virus Removal in a Full-Scale Membrane Bioreactor. <i>Environmental Science & Technology</i> , 2015, 49, 2815-2822.	10.0	105

#	ARTICLE	IF	CITATIONS
37	Electrochemical disinfection using boron-doped diamond electrode – The synergetic effects of in situ ozone and free chlorine generation. <i>Chemosphere</i> , 2015, 121, 47-53.	8.2	102
38	Disturbance and temporal partitioning of the activated sludge metacommunity. <i>ISME Journal</i> , 2015, 9, 425-435.	9.8	99
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.	11.3	99
40	High performance biological methanation in a thermophilic anaerobic trickle bed reactor. <i>Bioresource Technology</i> , 2017, 245, 1176-1183.	9.6	98
41	The effect of organic membrane fouling on the properties and rejection characteristics of nanofiltration membranes. <i>Separation and Purification Technology</i> , 2010, 74, 44-54.	7.9	97
42	Attenuation of contaminants of emerging concern during surface-spreading aquifer recharge. <i>Science of the Total Environment</i> , 2011, 409, 1087-1094.	8.0	97
43	An Assessment of Endocrine Disrupting Activity Changes during Wastewater Treatment through the Use of Bioassays and Chemical Measurements. <i>Water Environment Research</i> , 2005, 77, 12-23.	2.7	91
44	Determination of household chemicals using gas chromatography and liquid chromatography with tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2008, 1190, 253-262.	3.7	90
45	Correlation between biogas yield and chemical composition of energy crops. <i>Bioresource Technology</i> , 2014, 174, 316-320.	9.6	90
46	The role of inoculum's origin on the methane yield of different substrates in biochemical methane potential (BMP) tests. <i>Bioresource Technology</i> , 2017, 243, 457-463.	9.6	89
47	Microbial community evolution during simulated managed aquifer recharge in response to different biodegradable dissolved organic carbon (BDOC) concentrations. <i>Water Research</i> , 2013, 47, 2421-2430.	11.3	87
48	Behavior of alkylphenol polyethoxylate metabolites during soil aquifer treatment. <i>Water Research</i> , 2003, 37, 3672-3681.	11.3	82
49	OCCURRENCE OF IODINATED X-RAY CONTRAST MEDIA IN DOMESTIC EFFLUENTS AND THEIR FATE DURING INDIRECT POTABLE REUSE. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2001, 36, 1633-1645.	1.7	79
50	Validation of Sample Preparation Methods for Microplastic Analysis in Wastewater Matrices – Reproducibility and Standardization. <i>Water (Switzerland)</i> , 2020, 12, 2445.	2.7	79
51	The occurrence of emerging trace organic chemicals in wastewater effluents in Saudi Arabia. <i>Science of the Total Environment</i> , 2014, 478, 152-162.	8.0	76
52	Rejection of wastewater-derived micropollutants in high-pressure membrane applications leading to indirect potable reuse. <i>Environmental Progress</i> , 2005, 24, 400-409.	0.7	73
53	Seasonal variations in fate and removal of trace organic chemical contaminants while operating a full-scale membrane bioreactor. <i>Science of the Total Environment</i> , 2016, 550, 176-183.	8.0	72
54	Role of primary substrate composition on microbial community structure and function and trace organic chemical attenuation in managed aquifer recharge systems. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 5747-5756.	3.6	71

#	ARTICLE	IF	CITATIONS
55	The occurrence and fate of chemicals of emerging concern in coastal urban rivers receiving discharge of treated municipal wastewater effluent. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 350-358.	4.3	69
56	Investigating the role for adaptation of the microbial community to transform trace organic chemicals during managed aquifer recharge. <i>Water Research</i> , 2014, 56, 172-180.	11.3	67
57	Solute transport model for trace organic neutral and charged compounds through nanofiltration and reverse osmosis membranes. <i>Water Research</i> , 2007, 41, 3977-3988.	11.3	66
58	Effects of feed solution characteristics on the rejection of N-nitrosamines by reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2012, 409-410, 66-74.	8.2	65
59	Role of primary substrate composition and concentration on attenuation of trace organic chemicals in managed aquifer recharge systems. <i>Journal of Environmental Management</i> , 2014, 144, 58-66.	7.8	65
60	Fate of Steroidal Hormones During Soil-Aquifer Treatment. <i>Ground Water Monitoring and Remediation</i> , 2004, 24, 94-101.	0.8	64
61	Alternative approach to estimate the hydrolysis rate constant of particulate material from batch data. <i>Applied Energy</i> , 2014, 120, 11-15.	10.1	64
62	Multimedia screening of contaminants of emerging concern (CECS) in coastal urban watersheds in southern California (USA). <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 1986-1994.	4.3	63
63	Biotransformation of trace organic chemicals during groundwater recharge: How useful are first-order rate constants?. <i>Journal of Contaminant Hydrology</i> , 2015, 179, 65-75.	3.3	62
64	Variability of trace organic chemical concentrations in raw wastewater at three distinct sewer shed scales. <i>Water Research</i> , 2012, 46, 3261-3271.	11.3	61
65	N-nitrosamine rejection by nanofiltration and reverse osmosis membranes: The importance of membrane characteristics. <i>Desalination</i> , 2013, 316, 67-75.	8.2	61
66	Assessment of virus removal by managed aquifer recharge at three full-scale operations. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 1685-1692.	1.7	60
67	Behavior of DOC and AOX using advanced treated wastewater for groundwater recharge. <i>Water Research</i> , 1998, 32, 3125-3133.	11.3	59
68	Effects of membrane fouling on N-nitrosamine rejection by nanofiltration and reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2013, 427, 311-319.	8.2	59
69	Start-up performance of a full-scale riverbank filtration site regarding removal of DOC, nutrients, and trace organic chemicals. <i>Chemosphere</i> , 2015, 127, 136-142.	8.2	59
70	Ground Water Replenishment with Recycled Water – Water Quality Improvements during Managed Aquifer Recharge. <i>Ground Water</i> , 2009, 47, 502-505.	1.3	57
71	Evaluation of concrete corrosion after short- and long-term exposure to chemically and microbially generated sulfuric acid. <i>Cement and Concrete Research</i> , 2017, 94, 36-48.	11.0	57
72	Restoration of Wadi Aquifers by Artificial Recharge with Treated Waste Water. <i>Ground Water</i> , 2012, 50, 514-527.	1.3	55

#	ARTICLE	IF	CITATIONS
73	Using soil biomass as an indicator for the biological removal of effluent-derived organic carbon during soil infiltration. <i>Water Research</i> , 2006, 40, 961-968.	11.3	54
74	N-nitrosamine rejection by reverse osmosis membranes: A full-scale study. <i>Water Research</i> , 2013, 47, 6141-6148.	11.3	53
75	Influence of headspace flushing on methane production in Biochemical Methane Potential (BMP) tests. <i>Bioresource Technology</i> , 2015, 186, 173-178.	9.6	53
76	Character of Organic Matter in Soil-Aquifer Treatment Systems. <i>Journal of Environmental Engineering, ASCE</i> , 2006, 132, 1447-1458.	1.4	52
77	Introducing sequential managed aquifer recharge technology (SMART) – From laboratory to full-scale application. <i>Chemosphere</i> , 2016, 154, 8-16.	8.2	52
78	Fate and Transport of N-Nitrosamines Under Conditions Simulating Full-Scale Groundwater Recharge Operations. <i>Water Environment Research</i> , 2006, 78, 2466-2473.	2.7	51
79	Unexpected Diversity and High Abundance of Putative Nitric Oxide Dismutase (Nod) Genes in Contaminated Aquifers and Wastewater Treatment Systems. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	51
80	The pros and cons of using nanofiltration in lieu of reverse osmosis for indirect potable reuse applications. <i>Separation and Purification Technology</i> , 2012, 85, 69-76.	7.9	50
81	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.	11.3	50
82	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.	10.0	50
83	The role of microbial adaptation and biodegradable dissolved organic carbon on the attenuation of trace organic chemicals during groundwater recharge. <i>Science of the Total Environment</i> , 2012, 437, 137-144.	8.0	48
84	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.	5.4	47
85	rRNA Gene Expression of Abundant and Rare Activated-Sludge Microorganisms and Growth Rate Induced Micropollutant Removal. <i>Environmental Science & Technology</i> , 2016, 50, 6299-6309.	10.0	46
86	Quantitative structure property relationships for the adsorption of pharmaceuticals onto activated carbon. <i>Water Science and Technology</i> , 2010, 62, 2270-2276.	2.5	45
87	Rejection of small and uncharged chemicals of emerging concern by reverse osmosis membranes: The role of free volume space within the active skin layer. <i>Separation and Purification Technology</i> , 2013, 116, 426-432.	7.9	44
88	Flexible hybrid membrane treatment systems for tailored nutrient management: A new paradigm in urban wastewater treatment. <i>Journal of Membrane Science</i> , 2013, 446, 34-41.	8.2	44
89	Characterization of sulfur oxidizing bacteria related to biogenic sulfuric acid corrosion in sludge digesters. <i>BMC Microbiology</i> , 2016, 16, 153.	3.3	44
90	Comparative analysis of biogenic and chemical sulfuric acid attack on hardened cement paste using laser ablation-ICP-MS. <i>Cement and Concrete Research</i> , 2016, 87, 14-21.	11.0	44

#	ARTICLE	IF	CITATIONS
91	The importance of key attenuation factors for microbial and chemical contaminants during managed aquifer recharge: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2017, 47, 1409-1452.	12.8	43
92	Fate of natural organic matter (NOM) during ground water recharge using reclaimed water. <i>Water Science and Technology</i> , 1999, 40, 241.	2.5	42
93	Identifying Well Contamination through the use of 3-D Fluorescence Spectroscopy to Classify Coalbed Methane Produced Water. <i>Environmental Science & Technology</i> , 2013, 47, 649-656.	10.0	42
94	Occurrence of Pharmaceuticals and Consumer Product Chemicals in Raw Wastewater and Septic Tank Effluent from Single-Family Homes. <i>Environmental Engineering Science</i> , 2010, 27, 347-356.	1.6	40
95	Removal of trace organic chemicals in onsite wastewater soil treatment units: A laboratory experiment. <i>Water Research</i> , 2012, 46, 5174-5184.	11.3	40
96	Designing monitoring programs for chemicals of emerging concern in potable reuse “ what to include and what not to include?. <i>Water Science and Technology</i> , 2013, 67, 433-439.	2.5	38
97	Characterization of granular matrix supported nano magnesium oxide as an adsorbent for defluoridation of groundwater. <i>Chemical Engineering Journal</i> , 2015, 281, 632-643.	12.7	38
98	Disturbance opens recruitment sites for bacterial colonization in activated sludge. <i>Environmental Microbiology</i> , 2016, 18, 87-99.	3.8	38
99	Advancing Sequential Managed Aquifer Recharge Technology (SMART) Using Different Intermediate Oxidation Processes. <i>Water (Switzerland)</i> , 2017, 9, 221.	2.7	38
100	Correlation between Biogas Yield and Chemical Composition of Grassland Plant Species. <i>Energy & Fuels</i> , 2015, 29, 7221-7229.	5.1	37
101	Water reuse in the Kingdom of Saudi Arabia “ status, prospects and research needs. <i>Water Science and Technology: Water Supply</i> , 2012, 12, 926-936.	2.1	36
102	Coalbed methane produced water screening tool for treatment technology and beneficial use. <i>Journal of Unconventional Oil and Gas Resources</i> , 2014, 5, 22-34.	3.5	35
103	Heavy metal removal mechanisms of sorptive filter materials for road runoff treatment and remobilization under de-icing salt applications. <i>Water Research</i> , 2016, 102, 453-463.	11.3	35
104	Methodological Advances to Study Contaminant Biotransformation: New Prospects for Understanding and Reducing Environmental Persistence?. <i>ACS ES&T Water</i> , 2021, 1, 1541-1554.	4.6	35
105	Energy-positive sewage sludge pre-treatment with a novel ultrasonic flatbed reactor at low energy input. <i>Bioresource Technology</i> , 2018, 264, 298-305.	9.6	34
106	Impact of operating conditions on permeate flux and process economics for cross flow ceramic membrane ultrafiltration of surface water. <i>Separation and Purification Technology</i> , 2012, 87, 47-53.	7.9	33
107	Influence of Wastewater Discharge on the Metabolic Potential of the Microbial Community in River Sediments. <i>Microbial Ecology</i> , 2016, 71, 78-86.	2.8	33
108	Nitrogen removal and intentional nitrous oxide production from reject water in a coupled nitrification/nitrous denitrification system under real feed-stream conditions. <i>Bioresource Technology</i> , 2018, 255, 58-66.	9.6	32

#	ARTICLE	IF	CITATIONS
109	Validation of Arxula Yeast Estrogen Screen assay for detection of estrogenic activity in water samples: Results of an international interlaboratory study. <i>Science of the Total Environment</i> , 2018, 621, 612-625.	8.0	32
110	Effect of Drinking Water Sources on Reclaimed Water Quality in Water Reuse Systems. <i>Water Environment Research</i> , 2000, 72, 353-362.	2.7	31
111	Evaluation of site-specific factors influencing heavy metal contents in the topsoil of vegetated infiltration swales. <i>Science of the Total Environment</i> , 2016, 560-561, 19-28.	8.0	31
112	Application of the oxidation reduction potential (ORP) for process control and monitoring nitrite in a Coupled Aerobic-anoxic Nitrous Decomposition Operation (CANDO). <i>Chemical Engineering Journal</i> , 2018, 343, 484-491.	12.7	31
113	Trends in water quality variability for coalbed methane produced water. <i>Journal of Cleaner Production</i> , 2014, 84, 840-848.	9.3	30
114	Insight into the effects of biochar as adsorbent and microwave receptor from one-step microwave pyrolysis of sewage sludge. <i>Environmental Science and Pollution Research</i> , 2018, 25, 18424-18433.	5.3	29
115	Results of an Interlaboratory Comparison of Analytical Methods for Contaminants of Emerging Concern in Water. <i>Analytical Chemistry</i> , 2014, 86, 774-782.	6.5	28
116	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.	11.3	28
117	Quantifying Biological Organic Carbon Removal in Groundwater Recharge Systems. <i>Journal of Environmental Engineering, ASCE</i> , 2005, 131, 909-923.	1.4	27
118	Management strategies for trace organic chemicals in water – A review of international approaches. <i>Chemosphere</i> , 2018, 195, 410-426.	8.2	27
119	Biotransformation of trace organic chemicals in the presence of highly refractory dissolved organic carbon. <i>Chemosphere</i> , 2019, 215, 33-39.	8.2	26
120	N-nitrosamine rejection by reverse osmosis: Effects of membrane exposure to chemical cleaning reagents. <i>Desalination</i> , 2014, 343, 60-66.	8.2	25
121	Effect of temperature on removal of trace organic chemicals in managed aquifer recharge systems. <i>Chemosphere</i> , 2015, 122, 23-31.	8.2	25
122	Integration of Artificial Recharge and Recovery Systems for Impaired Water Sources in Urban Settings: Overcoming Current Limitations and Engineering Challenges. <i>Environmental Engineering Science</i> , 2013, 30, 409-420.	1.6	24
123	Separation of nitrous oxide from aqueous solutions applying a micro porous hollow fiber membrane contactor for energy recovery. <i>Separation and Purification Technology</i> , 2018, 195, 271-280.	7.9	23
124	Rejection of small solutes by reverse osmosis membranes for water reuse applications: A pilot-scale study. <i>Desalination</i> , 2014, 350, 28-34.	8.2	22
125	Fate of bulk and trace organics during a simulated aquifer recharge and recovery (ARR)-ozone hybrid process. <i>Chemosphere</i> , 2013, 93, 2055-2062.	8.2	21
126	Contemporary design, operation, and monitoring of potable reuse systems. <i>Journal of Water Reuse and Desalination</i> , 2015, 5, 1-7.	2.3	21

#	ARTICLE	IF	CITATIONS
127	CT scanning of membrane feed spacers – Impact of spacer model accuracy on hydrodynamic and solute transport modeling in membrane feed channels. <i>Journal of Membrane Science</i> , 2018, 564, 133-145.	8.2	21
128	Systematic Development of a Simultaneous Determination of Plastic Particle Identity and Adsorbed Organic Compounds by Thermodesorption–Pyrolysis GC/MS (TD-Pyr-GC/MS). <i>Molecules</i> , 2020, 25, 4985.	3.8	21
129	Modelling the rejection of N-nitrosamines by a spiral-wound reverse osmosis system: Mathematical model development and validation. <i>Journal of Membrane Science</i> , 2014, 454, 212-219.	8.2	20
130	Preparation and characterization of a reactive filter for groundwater defluoridation. <i>Chemical Engineering Journal</i> , 2016, 283, 1154-1167.	12.7	20
131	A proposed nomenclature for biological processes that remove nitrogen. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 10-17.	2.4	20
132	Correlation between hydrolysis rate constant and chemical composition of energy crops. <i>Renewable Energy</i> , 2018, 118, 34-42.	8.9	20
133	Geophysical and Hydrochemical Identification of Flow Paths with Implications for Water Quality at an <i>ARR</i> Site. <i>Ground Water Monitoring and Remediation</i> , 2014, 34, 105-116.	0.8	19
134	Cavitation field analysis for an increased efficiency of ultrasonic sludge pre-treatment using a novel hydrophone system. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 672-678.	8.2	19
135	Behavior and Characterization of Residual Organic Compounds in Wastewater Used for Indirect Potable Reuse. <i>Water Science and Technology</i> , 1999, 40, 391.	2.5	18
136	Boron as a Surrogate for <i>N</i> -Nitrosodimethylamine Rejection by Reverse Osmosis Membranes in Potable Water Reuse Applications. <i>Environmental Science & Technology</i> , 2013, 47, 6425-6430.	10.0	18
137	Tuning the performance of a natural treatment process using metagenomics for improved trace organic chemical attenuation. <i>Water Science and Technology</i> , 2014, 69, 628-633.	2.5	18
138	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.	8.0	18
139	Mass spectrometry based <i>in vitro</i> assay investigations on the transformation of pharmaceutical compounds by oxidative enzymes. <i>Chemosphere</i> , 2017, 174, 466-477.	8.2	17
140	Tube reactors as a novel ultrasonication system for trouble-free treatment of sludges. <i>Ultrasonics Sonochemistry</i> , 2017, 37, 464-470.	8.2	17
141	Predicting methane yield by linear regression models: A validation study for grassland biomass. <i>Bioresource Technology</i> , 2018, 265, 372-379.	9.6	17
142	Analysis of Greenhouse Gas Emissions in Centralized and Decentralized Water Reclamation with Resource Recovery Strategies in Leh Town, Ladakh, India, and Potential for Their Reduction in Context of the Water–Energy–Food Nexus. <i>Water (Switzerland)</i> , 2019, 11, 906.	2.7	17
143	A hydraulically optimized fluidized bed UF membrane reactor (FB-UF-MR) for direct treatment of raw municipal wastewater to enable water reclamation with integrated energy recovery. <i>Separation and Purification Technology</i> , 2020, 235, 116165.	7.9	17
144	Chapter 4.1 Removal of pharmaceutical residues during wastewater treatment. <i>Comprehensive Analytical Chemistry</i> , 2007, , 427-449.	1.3	16

#	ARTICLE	IF	CITATIONS
145	Insight into the defluoridation efficiency of nano magnesium oxide in groundwater system contaminated with hexavalent chromium and fluoride. Separation and Purification Technology, 2016, 162, 195-202.	7.9	16
146	Strategies for enhanced deammonification performance and reduced nitrous oxide emissions. Bioresource Technology, 2017, 236, 174-185.	9.6	16
147	Robust evaluation of performance monitoring options for ozone disinfection in water recycling using Bayesian analysis. Water Research, 2017, 124, 605-617.	11.3	16
148	Aquifer Recharge and Recovery: Groundwater Recharge Systems for Treatment, Storage, and Water Reclamation. Ground Water, 2011, 49, 771-771.	1.3	15
149	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.	8.0	15
150	Photoacoustic Spectroscopy for the Quantification of N ₂ O in the Off-Gas of Wastewater Treatment Plants. Analytical Chemistry, 2017, 89, 3795-3801.	6.5	15
151	Improving UV/H ₂ O ₂ performance following tertiary treatment of municipal wastewater. Environmental Science: Water Research and Technology, 2018, 4, 1321-1330.	2.4	15
152	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.	11.3	15
153	Organic Contaminants and Interactions with Micro- and Nano-Plastics in the Aqueous Environment: Review of Analytical Methods. Molecules, 2021, 26, 1164.	3.8	15
154	Microplastic sampling from wastewater treatment plant effluents: Best-practices and synergies between thermoanalytical and spectroscopic analysis. Water Research, 2022, 219, 118549.	11.3	15
155	Removal of organic halogens (AOX) from municipal wastewater by powdered activated carbon (PAC)/activated sludge (AS) treatment. Water Science and Technology, 1997, 35, 147.	2.5	14
156	Field Evaluation of the Performance of Engineered On-Site Wastewater Treatment Units. Journal of Hydrologic Engineering - ASCE, 2008, 13, 735-743.	1.9	14
157	Evaluation of Factors Influencing Lab-Scale Studies to Determine Heavy Metal Removal by Six Sorbents for Stormwater Treatment. Water (Switzerland), 2016, 8, 62.	2.7	14
158	A novel test method to determine the filter material service life of decentralized systems treating runoff from traffic areas. Journal of Environmental Management, 2016, 179, 66-75.	7.8	14
159	Hazardous events in membrane bioreactors – Part 3: Impacts on microorganism log removal efficiencies. Journal of Membrane Science, 2016, 497, 514-523.	8.2	14
160	Influence of organic load on the defluoridation efficiency of nano-magnesium oxide in groundwater. Separation and Purification Technology, 2017, 174, 116-125.	7.9	14
161	Toward Mainstream Anammox by Integrating Sidestream Treatment. Environmental Science & Technology, 2022, 56, 10553-10556.	10.0	14
162	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.	2.3	12

#	ARTICLE	IF	CITATIONS
163	The role of residual quantities of suspended sludge on nitrogen removal efficiency in a deammonifying moving bed biofilm reactor. <i>Bioresource Technology</i> , 2016, 219, 212-218.	9.6	12
164	Full-Scale Assessment of Ultrasonic Sewage Sludge Pretreatment Using a Novel Double-Tube Reactor. <i>ACS ES&T Engineering</i> , 2021, 1, 298-309.	7.6	12
165	Trace organic chemical attenuation during managed aquifer recharge: Insights from a variably saturated 2D tank experiment. <i>Journal of Hydrology</i> , 2017, 548, 641-651.	5.4	11
166	Inline dosing of powdered activated carbon and coagulant prior to ultrafiltration at pilot-scale – Effects on trace organic chemical removal and operational stability. <i>Chemical Engineering Journal</i> , 2021, 414, 128801.	12.7	11
167	Application of 3D-fluorescence/PARAFAC to monitor the performance of managed aquifer recharge facilities. <i>Journal of Water Reuse and Desalination</i> , 2016, 6, 249-263.	2.3	10
168	Hazardous events in membrane bioreactors – Part 1: Impacts on key operational and bulk water quality parameters. <i>Journal of Membrane Science</i> , 2016, 497, 494-503.	8.2	10
169	Hazardous events in membrane bioreactors – Part 2: Impacts on removal of trace organic chemical contaminants. <i>Journal of Membrane Science</i> , 2016, 497, 504-513.	8.2	10
170	Reducing the Impacts of Biofouling in RO Membrane Systems through In Situ Low Fluence Irradiation Employing UVC-LEDs. <i>Membranes</i> , 2020, 10, 415.	3.0	10
171	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.	2.4	9
172	Oxidation of bisphenol A by a boron-doped diamond electrode in different water matrices: transformation products and inorganic by-products. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 2539-2548.	3.5	8
173	Methane from CO ₂ : Influence of different CO ₂ concentrations in the flush gas on the methane production in BMP tests. <i>Waste Management</i> , 2016, 49, 36-39.	7.4	8
174	Editorial Perspectives: will SARS-CoV-2 reset public health requirements in the water industry? Integrating lessons of the past and emerging research. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1761-1764.	2.4	8
175	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.	4.6	8
176	Application of the Water-Energy-Food Nexus Approach to the Climate-Resilient Water Safety Plan of Leh Town, India. <i>Sustainability</i> , 2021, 13, 10550.	3.2	8
177	Simulation of groundwater recharge with advanced treated wastewater. <i>Water Science and Technology</i> , 1996, 33, 409.	2.5	7
178	Revealing biogenic sulfuric acid corrosion in sludge digesters: detection of sulfur-oxidizing bacteria within full-scale digesters. <i>Water Science and Technology</i> , 2014, 70, 1405-1411.	2.5	6
179	Assessment of fixed bed of aluminum infused diatomaceous earth as appropriate technology for groundwater defluoridation. <i>Separation and Purification Technology</i> , 2015, 153, 108-117.	7.9	6
180	Performance and N ₂ O Formation of the Deammonification Process by Suspended Sludge and Biofilm Systems – A Pilot-Scale Study. <i>Water (Switzerland)</i> , 2016, 8, 578.	2.7	6

#	ARTICLE	IF	CITATIONS
181	Assessment of Full-Scale Indirect Potable Water Reuse in El Port de la Selva, Spain. <i>Water (Switzerland)</i> , 2021, 13, 325.	2.7	5
182	An Assessment of International Management Strategies for CECs in Water. <i>ACS Symposium Series</i> , 2016, , 11-22.	0.5	4
183	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.	8.0	4
184	Microbial genetic potential for xenobiotic metabolism increases with depth during biofiltration. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 2058-2069.	3.5	4
185	Removal of Trace Organic Chemicals during Long-Term Biofilter Operation. <i>ACS ES&T Water</i> , 2021, 1, 300-308.	4.6	4
186	Chemical monitoring strategy for the assessment of advanced water treatment plant performance. <i>Water Science and Technology</i> , 2011, 63, 573-579.	2.5	3
187	Introduction: Reinventing Urban Water Infrastructure. <i>Environmental Engineering Science</i> , 2013, 30, 393-394.	1.6	3
188	Linking Trace Organic Chemical Attenuation to Microbiome Metabolic Capabilities: Insights from Laboratory- and Full-Scale Managed Aquifer Recharge Systems. <i>ACS Symposium Series</i> , 2016, , 163-187.	0.5	3
189	BioTOOL – a Readily and Flexible Biogas Rate Prediction Tool for End-users. <i>Environmental Modeling and Assessment</i> , 2019, 24, 87-94.	2.2	3
190	Evaluation of a bench-scale membrane fouling protocol to determine fouling propensities of membranes during full-scale water reuse applications. <i>Water Science and Technology</i> , 2010, 62, 1198-1204.	2.5	2
191	Widening the Analytical Perspective: Polarity Extended Separation for Monitoring of Trace Organic Compounds in Surface Water Matrices. <i>ACS Symposium Series</i> , 2016, , 103-117.	0.5	2
192	Infrastructure Shaming and Consequences for Management of Urban WEF Security Nexus in China and India. <i>Water (Switzerland)</i> , 2021, 13, 267.	2.7	2
193	Towards a sustainable mining habitat in South Africa. <i>WIT Transactions on Ecology and the Environment</i> , 2008, , .	0.0	2
194	Comparing the Phenomenological and Hydrodynamic Modeling Approaches for Describing the Rejection of Emerging Nonionic Organic Contaminants by a Nanofiltration Membrane. <i>ACS Symposium Series</i> , 2010, , 397-420.	0.5	1
195	Determining key factors and challenges that affect the future of water reuse. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2012, 61, 518-528.	1.4	1
196	Comprehensive assessment of Cytochrome P450 reactions: A multiplex approach using real-time ESI-MS. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 2573-2581.	2.4	1
197	Holistic and Detailed View on Workflow Strategies Applied in This Book. <i>ACS Symposium Series</i> , 2016, , 175-181.	0.5	1
198	Chemicals of Emerging Concern and Their Transformation Products in the Aqueous Environment. <i>ACS Symposium Series</i> , 2016, , 3-9.	0.5	1

#	ARTICLE	IF	CITATIONS
199	Neighborhood-Scale Urban Water Reclamation with Integrated Resource Recovery for Establishing Nexus City in Munich, Germany: Pipe Dream or Reality?. Resources, 2022, 11, 64.	3.5	1
200	A Novel Analytical Approach to Assessing Sorption of Trace Organic Compounds into Micro- and Nanoplastic Particles. Biomolecules, 2022, 12, 953.	4.0	1
201	Water reuse: achievements and future challenges. Journal of Water Supply: Research and Technology - AQUA, 2012, 61, 461-462.	1.4	0
202	Effects of Feed Solution Characteristics and Membrane Fouling on N-Nitrosamine Rejection by Reverse Osmosis Membranes. Procedia Engineering, 2012, 44, 1993-1995.	1.2	0
203	Response to Comment on "Identifying Well Contamination through the use of 3-D Fluorescence Spectroscopy to Classify Coalbed Methane Produced Water". Environmental Science & Technology, 2013, 47, 130111084155004.	10.0	0
204	Editorial: Journal of Water Reuse and Desalination moves to Open Access. Journal of Water Reuse and Desalination, 2016, 6, 465-465.	2.3	0
205	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.	4.6	0