

Jrg E Drewes

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199
papers

11,928
citations

56
h-index

104
g-index

209
ext. papers

13,391
ext. citations

7.3
avg, IF

6.8
L-index

#	Paper	IF	Citations
199	Evaluation of advanced oxidation processes for water and wastewater treatment - A critical review. <i>Water Research</i> , 2018 , 139, 118-131	12.5	1135
198	Factors affecting the rejection of organic solutes during NF/RO treatment--a literature review. <i>Water Research</i> , 2004 , 38, 2795-809	12.5	737
197	Fate of antibiotics during municipal water recycling treatment processes. <i>Water Research</i> , 2010 , 44, 4295-333	12.5	505
196	Treatment of brackish produced water using carbon aerogel-based capacitive deionization technology. <i>Water Research</i> , 2008 , 42, 2605-17	12.5	440
195	Effect of membrane fouling on transport of organic contaminants in NF/RO membrane applications. <i>Journal of Membrane Science</i> , 2006 , 279, 165-175	9.6	342
194	Rejection of organic micropollutants (disinfection by-products, endocrine disrupting compounds, and pharmaceutically active compounds) by NF/RO membranes. <i>Journal of Membrane Science</i> , 2003 , 227, 113-121	9.6	298
193	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	9.6	261
192	A multi-barrier osmotic dilution process for simultaneous desalination and purification of impaired water. <i>Journal of Membrane Science</i> , 2010 , 362, 417-426	9.6	256
191	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	9.6	232
190	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	9.6	191
189	A changing framework for urban water systems. <i>Environmental Science & Technology</i> , 2013 , 47, 10721-6	12.5	180
188	Full scale co-digestion of wastewater sludge and food waste: Bottlenecks and possibilities. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 72, 354-362	16.2	179
187	Sorption of emerging trace organic compounds onto wastewater sludge solids. <i>Water Research</i> , 2011 , 45, 3417-26	12.5	179
186	Fate of Pharmaceuticals During Ground Water Recharge. <i>Ground Water Monitoring and Remediation</i> , 2003 , 23, 64-72	1.4	171
185	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	10.7	151
184	Comparing microfiltration-reverse osmosis and soil-aquifer treatment for indirect potable reuse of water. <i>Water Research</i> , 2003 , 37, 3612-21	12.5	150
183	Indicator compounds for assessment of wastewater effluent contributions to flow and water quality. <i>Water Research</i> , 2011 , 45, 1199-212	12.5	140

182	Rejection of emerging organic micropollutants in nanofiltration-reverse osmosis membrane applications. <i>Water Environment Research</i> , 2005 , 77, 40-8	2.8	138
181	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	9.6	134
180	The role of organic matter in the removal of emerging trace organic chemicals during managed aquifer recharge. <i>Water Research</i> , 2010 , 44, 449-60	12.5	130
179	Sorption of ionized and neutral emerging trace organic compounds onto activated sludge from different wastewater treatment configurations. <i>Water Research</i> , 2012 , 46, 1958-68	12.5	128
178	Beneficial use of co-produced water through membrane treatment: technical-economic assessment. <i>Desalination</i> , 2008 , 225, 139-155	10.3	120
177	Produced Water in the Western United States: Geographical Distribution, Occurrence, and Composition. <i>Environmental Engineering Science</i> , 2008 , 25, 239-246	2	118
176	Viability of a low-pressure nanofilter in treating recycled water for water reuse applications: a pilot-scale study. <i>Water Research</i> , 2007 , 41, 3948-58	12.5	117
175	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	3.1	110
174	Attenuation of total organic carbon and unregulated trace organic chemicals in U.S. riverbank filtration systems. <i>Water Research</i> , 2010 , 44, 4643-59	12.5	109
173	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	9.6	109
172	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	8.3	107
171	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	8.3	106
170	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	10.2	101
169	Applying surrogates and indicators to assess removal efficiency of trace organic chemicals during chemical oxidation of wastewaters. <i>Environmental Science & Technology</i> , 2009 , 43, 6242-7	10.3	96
168	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	8.6	95
167	Critical Review of Desalination Concentrate Management, Treatment and Beneficial Use. <i>Environmental Engineering Science</i> , 2013 , 30, 502-514	2	95
166	Dissolved organic carbon influences microbial community composition and diversity in managed aquifer recharge systems. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 6819-28	4.8	92
165	Composite geochemical database for coalbed methane produced water quality in the Rocky Mountain region. <i>Environmental Science & Technology</i> , 2011 , 45, 7655-63	10.3	86

164	Attenuation of contaminants of emerging concern during surface-spreading aquifer recharge. <i>Science of the Total Environment</i> , 2011 , 409, 1087-94	10.2	84
163	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	8.3	84
162	Disturbance and temporal partitioning of the activated sludge metacommunity. <i>ISME Journal</i> , 2015 , 9, 425-35	11.9	80
161	Determination of household chemicals using gas chromatography and liquid chromatography with tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2008 , 1190, 253-62	4.5	78
160	Mechanisms of pathogenic virus removal in a full-scale membrane bioreactor. <i>Environmental Science & Technology</i> , 2015 , 49, 2815-22	10.3	77
159	Microbial community evolution during simulated managed aquifer recharge in response to different biodegradable dissolved organic carbon (BDOC) concentrations. <i>Water Research</i> , 2013 , 47, 2421-30	12.5	75
158	Behavior of alkylphenol polyethoxylate metabolites during soil aquifer treatment. <i>Water Research</i> , 2003 , 37, 3672-81	12.5	75
157	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	8.4	74
156	UV/HO process stability and pilot-scale validation for trace organic chemical removal from wastewater treatment plant effluents. <i>Water Research</i> , 2018 , 136, 169-179	12.5	71
155	High performance biological methanation in a thermophilic anaerobic trickle bed reactor. <i>Bioresource Technology</i> , 2017 , 245, 1176-1183	11	70
154	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	2.8	70
153	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	11	69
152	Correlation between biogas yield and chemical composition of energy crops. <i>Bioresource Technology</i> , 2014 , 174, 316-20	11	67
151	The occurrence of emerging trace organic chemicals in wastewater effluents in Saudi Arabia. <i>Science of the Total Environment</i> , 2014 , 478, 152-62	10.2	66
150	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, 1633-45	2.3	66
149	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, 5747-56	5.7	63
148	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, 350-8	3.8	61
147	Rejection of wastewater-derived micropollutants in high-pressure membrane applications leading to indirect potable reuse. <i>Environmental Progress</i> , 2005 , 24, 400-409		61

146	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	9.6	60
145	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	10.2	59
144	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	7.9	56
143	Solute transport model for trace organic neutral and charged compounds through nanofiltration and reverse osmosis membranes. <i>Water Research</i> , 2007 , 41, 3977-88	12.5	56
142	Fate of Steroidal Hormones During Soil-Aquifer Treatment. <i>Ground Water Monitoring and Remediation</i> , 2004 , 24, 94-101	1.4	55
141	Investigating the role for adaptation of the microbial community to transform trace organic chemicals during managed aquifer recharge. <i>Water Research</i> , 2014 , 56, 172-80	12.5	54
140	Variability of trace organic chemical concentrations in raw wastewater at three distinct sewershed scales. <i>Water Research</i> , 2012 , 46, 3261-71	12.5	54
139	Effects of membrane fouling on N-nitrosamine rejection by nanofiltration and reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2013 , 427, 311-319	9.6	53
138	Alternative approach to estimate the hydrolysis rate constant of particulate material from batch data. <i>Applied Energy</i> , 2014 , 120, 11-15	10.7	52
137	N-nitrosamine rejection by nanofiltration and reverse osmosis membranes: The importance of membrane characteristics. <i>Desalination</i> , 2013 , 316, 67-75	10.3	52
136	Using soil biomass as an indicator for the biological removal of effluent-derived organic carbon during soil infiltration. <i>Water Research</i> , 2006 , 40, 961-8	12.5	51
135	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	3.9	48
134	Start-up performance of a full-scale riverbank filtration site regarding removal of DOC, nutrients, and trace organic chemicals. <i>Chemosphere</i> , 2015 , 127, 136-42	8.4	47
133	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, 1685-92	2.3	47
132	N-nitrosamine rejection by reverse osmosis membranes: a full-scale study. <i>Water Research</i> , 2013 , 47, 6141-8	12.5	46
131	Behavior of DOC and AOX using advanced treated wastewater for groundwater recharge. <i>Water Research</i> , 1998 , 32, 3125-3133	12.5	46
130	Influence of headspace flushing on methane production in Biochemical Methane Potential (BMP) tests. <i>Bioresource Technology</i> , 2015 , 186, 173-178	11	44
129	Restoration of wadi aquifers by artificial recharge with treated waste water. <i>Ground Water</i> , 2012 , 50, 514-27	2.4	44

128	Character of Organic Matter in Soil-Aquifer Treatment Systems. <i>Journal of Environmental Engineering, ASCE</i> , 2006 , 132, 1447-1458	2	44
127	Fate and transport of N-nitrosamines under conditions simulating full-scale groundwater recharge operations. <i>Water Environment Research</i> , 2006 , 78, 2466-73	2.8	44
126	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	8.3	41
125	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, 137-44	10.2	41
124	Quantitative structure property relationships for the adsorption of pharmaceuticals onto activated carbon. <i>Water Science and Technology</i> , 2010 , 62, 2270-6	2.2	41
123	Introducing sequential managed aquifer recharge technology (SMART) - From laboratory to full-scale application. <i>Chemosphere</i> , 2016 , 154, 8-16	8.4	41
122	Multimedia screening of contaminants of emerging concern (CECS) in coastal urban watersheds in southern California (USA). <i>Environmental Toxicology and Chemistry</i> , 2016 , 35, 1986-94	3.8	40
121	rRNA Gene Expression of Abundant and Rare Activated-Sludge Microorganisms and Growth Rate Induced Micropollutant Removal. <i>Environmental Science & Technology</i> , 2016 , 50, 6299-309	10.3	40
120	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	8.3	39
119	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,	4.8	38
118	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	12.5	36
117	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	6	36
116	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	2	35
115	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	10.3	34
114	Fate of natural organic matter (NOM) during ground water recharge using reclaimed water. <i>Water Science and Technology</i> , 1999 , 40, 241	2.2	34
113	Characterization of sulfur oxidizing bacteria related to biogenic sulfuric acid corrosion in sludge digesters. <i>BMC Microbiology</i> , 2016 , 16, 153	4.5	33
112	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	9.6	33
111	Removal of trace organic chemicals in onsite wastewater soil treatment units: a laboratory experiment. <i>Water Research</i> , 2012 , 46, 5174-84	12.5	33

110	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	10.3	32
109	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	8.3	32
108	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, 433-9	2.2	32
107	Identifying well contamination through the use of 3-D fluorescence spectroscopy to classify coalbed methane produced water. <i>Environmental Science & Technology</i> , 2013 , 47, 649-56	10.3	31
106	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		30
105	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	11.1	30
104	Energy-positive sewage sludge pre-treatment with a novel ultrasonic flatbed reactor at low energy input. <i>Bioresource Technology</i> , 2018 , 264, 298-305	11	30
103	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	10.3	29
102	Advancing Sequential Managed Aquifer Recharge Technology (SMART) Using Different Intermediate Oxidation Processes. <i>Water (Switzerland)</i> , 2017 , 9, 221	3	29
101	Disturbance opens recruitment sites for bacterial colonization in activated sludge. <i>Environmental Microbiology</i> , 2016 , 18, 87-99	5.2	27
100	Influence of Wastewater Discharge on the Metabolic Potential of the Microbial Community in River Sediments. <i>Microbial Ecology</i> , 2016 , 71, 78-86	4.4	27
99	Validation of Sample Preparation Methods for Microplastic Analysis in Wastewater Matrices: Reproducibility and Standardization. <i>Water (Switzerland)</i> , 2020 , 12, 2445	3	27
98	Characterization of granular matrix supported nano magnesium oxide as an adsorbent for defluoridation of groundwater. <i>Chemical Engineering Journal</i> , 2015 , 281, 632-643	14.7	26
97	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	12.5	26
96	Correlation between Biogas Yield and Chemical Composition of Grassland Plant Species. <i>Energy & Fuels</i> , 2015 , 29, 7221-7229	4.1	25
95	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	11	25
94	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	5.1	23
93	Results of an interlaboratory comparison of analytical methods for contaminants of emerging concern in water. <i>Analytical Chemistry</i> , 2014 , 86, 774-82	7.8	23

92	Effect of temperature on removal of trace organic chemicals in managed aquifer recharge systems. <i>Chemosphere</i> , 2015 , 122, 23-31	8.4	23
91	Trends in water quality variability for coalbed methane produced water. <i>Journal of Cleaner Production</i> , 2014 , 84, 840-848	10.3	23
90	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	1.4	23
89	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	10.2	23
88	N-nitrosamine rejection by reverse osmosis: Effects of membrane exposure to chemical cleaning reagents. <i>Desalination</i> , 2014 , 343, 60-66	10.3	22
87	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	2	22
86	Quantifying Biological Organic Carbon Removal in Groundwater Recharge Systems. <i>Journal of Environmental Engineering, ASCE</i> , 2005 , 131, 909-923	2	22
85	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	14.7	21
84	Effect of Drinking Water Sources on Reclaimed Water Quality in Water Reuse Systems. <i>Water Environment Research</i> , 2000 , 72, 353-362	2.8	21
83	Management strategies for trace organic chemicals in water - A review of international approaches. <i>Chemosphere</i> , 2018 , 195, 410-426	8.4	21
82	Fate of bulk and trace organics during a simulated aquifer recharge and recovery (ARR)-ozone hybrid process. <i>Chemosphere</i> , 2013 , 93, 2055-62	8.4	20
81	Biotransformation of trace organic chemicals in the presence of highly refractory dissolved organic carbon. <i>Chemosphere</i> , 2019 , 215, 33-39	8.4	20
80	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	10.2	19
79	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	9.6	18
78	Geophysical and Hydrochemical Identification of Flow Paths with Implications for Water Quality at an ARR Site. <i>Ground Water Monitoring and Remediation</i> , 2014 , 34, 105-116	1.4	18
77	Rejection of small solutes by reverse osmosis membranes for water reuse applications: A pilot-scale study. <i>Desalination</i> , 2014 , 350, 28-34	10.3	18
76	A proposed nomenclature for biological processes that remove nitrogen. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 10-17	4.2	18
75	Contemporary design, operation, and monitoring of potable reuse systems. <i>Journal of Water Reuse and Desalination</i> , 2015 , 5, 1-7	2.6	18

74	Correlation between hydrolysis rate constant and chemical composition of energy crops. <i>Renewable Energy</i> , 2018 , 118, 34-42	8.1	17
73	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	12.5	16
72	Boron as a surrogate for N-nitrosodimethylamine rejection by reverse osmosis membranes in potable water reuse applications. <i>Environmental Science & Technology</i> , 2013 , 47, 6425-30	10.3	16
71	Tube reactors as a novel ultrasonication system for trouble-free treatment of sludges. <i>Ultrasonics Sonochemistry</i> , 2017 , 37, 464-470	8.9	15
70	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	10.2	14
69	Strategies for enhanced deammonification performance and reduced nitrous oxide emissions. <i>Bioresource Technology</i> , 2017 , 236, 174-185	11	14
68	Tuning the performance of a natural treatment process using metagenomics for improved trace organic chemical attenuation. <i>Water Science and Technology</i> , 2014 , 69, 628-33	2.2	14
67	Chapter 4.1 Removal of pharmaceutical residues during wastewater treatment. <i>Comprehensive Analytical Chemistry</i> , 2007 , 427-449	1.9	14
66	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	8.3	14
65	Mass spectrometry based in vitro assay investigations on the transformation of pharmaceutical compounds by oxidative enzymes. <i>Chemosphere</i> , 2017 , 174, 466-477	8.4	13
64	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	9.6	13
63	Field Evaluation of the Performance of Engineered On-Site Wastewater Treatment Units. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 735-743	1.8	13
62	Evaluation of Factors Influencing Lab-Scale Studies to Determine Heavy Metal Removal by Six Sorbents for Stormwater Treatment. <i>Water (Switzerland)</i> , 2016 , 8, 62	3	13
61	Insight into the defluoridation efficiency of nano magnesium oxide in groundwater system contaminated with hexavalent chromium and fluoride. <i>Separation and Purification Technology</i> , 2016 , 162, 195-202	8.3	13
60	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	12.5	13
59	Hazardous events in membrane bioreactors [Part 3: Impacts on microorganism log removal efficiencies. <i>Journal of Membrane Science</i> , 2016 , 497, 514-523	9.6	12
58	Preparation and characterization of a reactive filter for groundwater defluoridation. <i>Chemical Engineering Journal</i> , 2016 , 283, 1154-1167	14.7	12
57	Photoacoustic Spectroscopy for the Quantification of NO in the Off-Gas of Wastewater Treatment Plants. <i>Analytical Chemistry</i> , 2017 , 89, 3795-3801	7.8	12

56	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	8.9	12
55	Predicting methane yield by linear regression models: A validation study for grassland biomass. <i>Bioresource Technology</i> , 2018 , 265, 372-379	11	12
54	Robust evaluation of performance monitoring options for ozone disinfection in water recycling using Bayesian analysis. <i>Water Research</i> , 2017 , 124, 605-617	12.5	12
53	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	6	11
52	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	11	11
51	Behavior and Characterization of Residual Organic Compounds in Wastewater Used for Indirect Potable Reuse. <i>Water Science and Technology</i> , 1999 , 40, 391	2.2	11
50	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	3	10
49	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,	4.8	10
48	A novel test method to determine the filter material service life of decentralized systems treating runoff from traffic areas. <i>Journal of Environmental Management</i> , 2016 , 179, 66-75	7.9	10
47	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	4.2	10
46	Influence of organic load on the defluoridation efficiency of nano-magnesium oxide in groundwater. <i>Separation and Purification Technology</i> , 2017 , 174, 116-125	8.3	10
45	Removal of organic halogens (AOX) from municipal wastewater by powdered activated carbon (PAC)/activated sludge (AS) treatment. <i>Water Science and Technology</i> , 1997 , 35, 147	2.2	9
44	Methodological Advances to Study Contaminant Biotransformation: New Prospects for Understanding and Reducing Environmental Persistence?. <i>ACS ES&T Water</i> , 2021 , 1, 1541-1554		9
43	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	2.6	9
42	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	8.3	9
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