

Xia Huang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

234
papers

8,065
citations

45
h-index

78
g-index

244
ext. papers

9,949
ext. citations

9.6
avg, IF

6.58
L-index

#	Paper	IF	Citations
234	Persistence of SARS-CoV-2 RNA in wastewater after the end of the COVID-19 epidemics.. <i>Journal of Hazardous Materials</i> , 2022 , 429, 128358	12.8	4
233	Challenges, solutions and prospects of mainstream anammox-based process for municipal wastewater treatment.. <i>Science of the Total Environment</i> , 2022 , 820, 153351	10.2	4
232	Deciphering the spatial fouling characteristics of reverse osmosis membranes for coal chemical wastewater treatment. <i>Separation and Purification Technology</i> , 2022 , 286, 120456	8.3	0
231	Distribution of antibiotic resistance genes and their association with bacteria and viruses in decentralized sewage treatment facilities. <i>Frontiers of Environmental Science and Engineering</i> , 2022 , 16, 35	5.8	5
230	Techno-economic characteristics of wastewater treatment plants retrofitted from the conventional activated sludge process to the membrane bioreactor process. <i>Frontiers of Environmental Science and Engineering</i> , 2022 , 16, 1	5.8	6
229	Fluorescence excitation-emission matrix as a novel indicator of assimilable organic carbon in wastewater: Implication from a coal chemical wastewater study. <i>Science of the Total Environment</i> , 2022 , 804, 150144	10.2	0
228	Insights into the effect of iron-carbon particle amendment on food waste composting: physicochemical properties and the microbial community.. <i>Bioresource Technology</i> , 2022 , 126939	11	0
227	Incorporating catalytic ceramic membrane into the integrated process of in situ ozonation, membrane filtration and biological degradation: Enhanced performance and underlying mechanisms. <i>Journal of Membrane Science</i> , 2022 , 652, 120509	9.6	1
226	Recovery of ammonium nitrate solution from urine wastewater via novel free nitrous acid (FNA)-mediated two-stage processes. <i>Chemical Engineering Journal</i> , 2022 , 440, 135826	14.7	1
225	Membrane-based electrochemical technologies: II. Microbial desalination cell 2022 , 361-401		
224	Two strategies of stubborn biofouling strains surviving from NaClO membrane cleaning: EPS shielding and/or quorum sensing. <i>Science of the Total Environment</i> , 2022 , 838, 156421	10.2	1
223	Deciphering mono/multivalent draw solute-induced microbial ecology and membrane fouling in anaerobic osmotic membrane bioreactor. <i>Water Research</i> , 2021 , 209, 117869	12.5	1
222	Tailored design of nanofiltration membranes for water treatment based on synthesis-property-performance relationships.. <i>Chemical Society Reviews</i> , 2021 ,	58.5	19
221	Simultaneous control of sulfide and methane in sewers achieved by a physical approach targeting dominant active zone in sediments.. <i>Water Research</i> , 2021 , 211, 118010	12.5	2
220	Interaction between humic acid and silica in reverse osmosis membrane fouling process: A spectroscopic and molecular dynamics insight. <i>Water Research</i> , 2021 , 206, 117773	12.5	2
219	In Situ Exploration of the Sulfidogenic Process at the Water-Sediment Interface in Sewers: Mechanism and Implications. <i>ACS ES&T Engineering</i> , 2021 , 1, 415-423		3
218	Enhancement of nitrite-dependent anaerobic methane oxidation via <i>Geobacter sulfurreducens</i> . <i>Science of the Total Environment</i> , 2021 , 766, 144230	10.2	5

217	Utilization of Elemental Sulfur in Constructed Wetlands Amended with Granular Activated Carbon for High-Rate Nitrogen Removal. <i>Water Research</i> , 2021 , 195, 116996	12.5	5
216	Roles and performance enhancement of feed spacer in spiral wound membrane modules for water treatment: A 20-year review on research evolvement. <i>Water Research</i> , 2021 , 198, 117146	12.5	15
215	Cost-benefit analysis and technical efficiency evaluation of full-scale membrane bioreactors for wastewater treatment using economic approaches. <i>Journal of Cleaner Production</i> , 2021 , 301, 126984	10.3	9
214	Artificial electrochemically active biofilm for improved sensing performance and quickly devising of water quality early warning biosensors. <i>Water Research</i> , 2021 , 198, 117164	12.5	8
213	Selective membranes in water and wastewater treatment: Role of advanced materials. <i>Materials Today</i> , 2021 , 50, 516-516	21.8	15
212	Robustness of granular activated carbon-synergized anaerobic membrane bioreactor for pilot-scale application over a wide seasonal temperature change. <i>Water Research</i> , 2021 , 189, 116552	12.5	22
211	Facile and low-cost ceramic fiber-based carbon-carbon composite for solar evaporation. <i>Science of the Total Environment</i> , 2021 , 759, 143546	10.2	12
210	Probing the key foulants and membrane fouling under increasing salinity in anaerobic osmotic membrane bioreactors for low-strength wastewater treatment. <i>Chemical Engineering Journal</i> , 2021 , 413, 127450	14.7	8
209	Temperature Variations Shape Niche Occupation of Nitrotoga-like Bacteria in Activated Sludge. <i>ACS ES&T Water</i> , 2021 , 1, 167-174		7
208	Enhancement of nitrite reduction and enrichment of <i>Methylomonas</i> via conductive materials in a nitrite-dependent anaerobic methane oxidation system. <i>Environmental Research</i> , 2021 , 193, 110565	7.9	7
207	Study of free nitrous acid (FNA)-based elimination of sulfamethoxazole: Kinetics, transformation pathways, and toxicity assessment. <i>Water Research</i> , 2021 , 189, 116629	12.5	5
206	A freestanding carbon submicro fiber sponge as high-efficient bioelectrochemical anode for wastewater energy recovery and treatment. <i>Applied Energy</i> , 2021 , 281, 115913	10.7	6
205	Impact of electrical stimulation modes on the degradation of refractory phenolics and the analysis of microbial communities in an anaerobic-aerobic-coupled upflow bioelectrochemical reactor. <i>Bioresource Technology</i> , 2021 , 320, 124371	11	6
204	Large-Scale Membrane Bioreactors for Industrial Wastewater Treatment in China: Technical and Economic Features, Driving Forces, and Perspectives. <i>Engineering</i> , 2021 , 7, 868-880	9.7	7
203	Enzymatic Cleaning Mitigates Polysaccharide-Induced Refouling of RO Membrane: Evidence from Foulant Layer Structure and Microbial Dynamics. <i>Environmental Science & Technology</i> , 2021 , 55, 5453-5462	10.3	10
202	P-C Bond Cleavage Induced Ni(II) Complexes Bearing Rare-Earth-Metal-Based Metalloligand and Reactivities toward Isonitrile, Nitrile, and Epoxide. <i>Inorganic Chemistry</i> , 2021 , 60, 3249-3258	5.1	6
201	Electricity Enhances Biological Fe(III) Reduction and Phosphorus Recovery from FeP Complex: Proof of Concept and Kinetic Analysis. <i>ACS ES&T Engineering</i> , 2021 , 1, 523-532		6
200	Bifunctional Fe for Induced Graphitization and Catalytic Ozonation Based on a Fe/N-Doped Carbon-ALO Framework: Theoretical Calculations Guided Catalyst Design and Optimization. <i>Environmental Science & Technology</i> , 2021 ,	10.3	4

199	Onset Investigation on Dynamic Change of Biohythane Generation and Microbial Structure in Dual-chamber versus Single-chamber Microbial Electrolysis Cells. <i>Water Research</i> , 2021 , 201, 117326	12.5	1
198	Rapid dynamic quantification of sulfide generation flux in spatially heterogeneous sediments of gravity sewers. <i>Water Research</i> , 2021 , 203, 117494	12.5	4
197	Additional polypyrrole as conductive medium in artificial electrochemically active biofilm (EAB) to increase the sensitivity of EAB based biosensor in water quality early-warning. <i>Biosensors and Bioelectronics</i> , 2021 , 190, 113453	11.8	3
196	Simultaneous nitrification and aerobic denitrification by a novel isolated <i>Ochrobactrum anthropi</i> HND19. <i>Bioresource Technology</i> , 2021 , 340, 125582	11	3
195	Spectroscopic sensing of membrane fouling potential in a long-term running anaerobic membrane bioreactor. <i>Chemical Engineering Journal</i> , 2021 , 426, 130799	14.7	3
194	Adaptation of nitrifying community in activated sludge to free ammonia inhibition and inactivation. <i>Science of the Total Environment</i> , 2020 , 728, 138713	10.2	27
193	Outlining the Roles of Membrane-Foulant and Foulant-Foulant Interactions in Organic Fouling During Microfiltration and Ultrafiltration: A Mini-Review. <i>Frontiers in Chemistry</i> , 2020 , 8, 417	5	25
192	Water-level based discrete integrated dynamic control to regulate the flow for sewer-WWTP operation. <i>Frontiers of Environmental Science and Engineering</i> , 2020 , 14, 1	5.8	1
191	Iron-based clusters embedded in nitrogen doped activated carbon catalysts with superior cathodic activity in microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10772-10778	13	15
190	Cross-stacked super-aligned carbon nanotube/activated carbon composite electrodes for efficient water purification via capacitive deionization enhanced ultrafiltration. <i>Frontiers of Environmental Science and Engineering</i> , 2020 , 14, 1	5.8	11
189	Superhydrophilic polyvinylidene fluoride membrane with hierarchical surface structures fabricated via nanoimprint and nanoparticle grafting. <i>Journal of Membrane Science</i> , 2020 , 612, 118332	9.6	4
188	A hybrid fluidized-bed reactor (HFBR) based on arrayed ceramic membranes (ACMs) coupled with powdered activated carbon (PAC) for efficient catalytic ozonation: A comprehensive study on a pilot scale. <i>Water Research</i> , 2020 , 173, 115536	12.5	11
187	Anammox bacteria enrichment and denitrification in moving bed biofilm reactors packed with different buoyant carriers: Performances and mechanisms. <i>Science of the Total Environment</i> , 2020 , 719, 137277	10.2	33
186	Surface charge regulation of reverse osmosis membrane for anti-silica and organic fouling. <i>Science of the Total Environment</i> , 2020 , 715, 137013	10.2	11
185	Construction of innovative 3D-weaved carbon mesh anode network to boost electron transfer and microbial activity in bioelectrochemical system. <i>Water Research</i> , 2020 , 172, 115493	12.5	17
184	Full-scale MBR applications for leachate treatment in China: Practical, technical, and economic features. <i>Journal of Hazardous Materials</i> , 2020 , 389, 122138	12.8	37
183	Excitation-emission matrix (EEM) fluorescence spectroscopy for characterization of organic matter in membrane bioreactors: Principles, methods and applications. <i>Frontiers of Environmental Science and Engineering</i> , 2020 , 14, 1	5.8	42
182	One-step ball milling-prepared nano Fe ₂ O ₃ and nitrogen-doped graphene with high oxygen reduction activity and its application in microbial fuel cells. <i>Frontiers of Environmental Science and Engineering</i> , 2020 , 14, 1	5.8	11

181	Free nitrous acid-based suppression of sulfide production in sewer sediments: In-situ effect mechanism. <i>Science of the Total Environment</i> , 2020 , 715, 136871	10.2	11
180	Relationship between fluorescence excitation-emission matrix properties and the relative degree of DOM hydrophobicity in wastewater treatment effluents. <i>Chemosphere</i> , 2020 , 254, 126830	8.4	19
179	Biofilm morphology design for high sensitivity of bioelectrochemical sensor: An experimental and modeling study. <i>Science of the Total Environment</i> , 2020 , 729, 138908	10.2	8
178	Evaluating the performance of inorganic draw solution concentrations in an anaerobic forward osmosis membrane bioreactor for real municipal sewage treatment. <i>Bioresource Technology</i> , 2020 , 307, 123254	11	12
177	Photodegradation of soluble microbial products (SMPs) from membrane bioreactor by GO-COOH/TiO/Ag. <i>Journal of Environmental Sciences</i> , 2020 , 88, 292-300	6.4	5
176	A Facile and Scalable Fabrication Procedure for Thin-Film Composite Membranes: Integration of Phase Inversion and Interfacial Polymerization. <i>Environmental Science & Technology</i> , 2020 , 54, 1946-1954	10.2	21
175	Membrane autopsy deciphering keystone microorganisms stubborn against online NaOCl cleaning in a full-scale MBR. <i>Water Research</i> , 2020 , 171, 115390	12.5	14
174	Reverse osmosis membrane autopsy in coal chemical wastewater treatment: Evidences of spatially heterogeneous fouling and organic-inorganic synergistic effect. <i>Journal of Cleaner Production</i> , 2020 , 246, 118964	10.3	21
173	High-performance thin film nanocomposite membranes enabled by nanomaterials with different dimensions for nanofiltration. <i>Journal of Membrane Science</i> , 2020 , 596, 117717	9.6	47
172	Carbon Black Flow Electrode Enhanced Electrochemical Desalination Using Single-Cycle Operation. <i>Environmental Science & Technology</i> , 2020 , 54, 1177-1185	10.3	32
171	High-Power Microbial Fuel Cells Based on a Carbon-Carbon Composite Air Cathode. <i>Small</i> , 2020 , 16, e1905240	10.2	8
170	Organic carbon coupling with sulfur reducer boosts sulfur based denitrification by Thiobacillus denitrificans. <i>Science of the Total Environment</i> , 2020 , 748, 142445	10.2	8
169	Control sulfide and methane production in sewers based on free ammonia inactivation. <i>Environment International</i> , 2020 , 143, 105928	12.9	12
168	High-rate nitrogen removal from carbon limited wastewater using sulfur-based constructed wetland: Impact of sulfur sources. <i>Science of the Total Environment</i> , 2020 , 744, 140969	10.2	13
167	Critical Factors Facilitating Nitrotoga To Be Prevalent Nitrite-Oxidizing Bacteria in Activated Sludge. <i>Environmental Science & Technology</i> , 2020 , 54, 15414-15423	10.3	14
166	Quantitative relationships for the impact of gas sparging conditions on membrane fouling in anaerobic membrane bioreactor. <i>Journal of Cleaner Production</i> , 2020 , 276, 123139	10.3	3
165	Surface Grafting of Reverse Osmosis Membrane with Chlorhexidine Using Biopolymer Alginate Dialdehyde as a Facile Green Platform for In Situ Biofouling Control. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37515-37526	9.5	7
164	Impacts of non-uniform filament feed spacers characteristics on the hydraulic and anti-fouling performances in the spacer-filled membrane channels: Experiment and numerical simulation. <i>Water Research</i> , 2020 , 185, 116251	12.5	14

163	A Simple Method to Identify the Dominant Fouling Mechanisms during Membrane Filtration Based on Piecewise Multiple Linear Regression. <i>Membranes</i> , 2020 , 10,	3.8	8
162	Electrically Tuning Ultrafiltration Behavior for Efficient Water Purification. <i>Environmental Science & Technology</i> , 2020 , 54, 11536-11545	10.3	3
161	Grafting d-amino acid onto MF polyamide nylon membrane for biofouling control using biopolymer alginate dialdehyde as a versatile platform. <i>Separation and Purification Technology</i> , 2020 , 231, 115891	8.3	7
160	An electroactive biofilm-based biosensor for water safety: Pollutants detection and early-warning. <i>Biosensors and Bioelectronics</i> , 2020 , 173, 112822	11.8	14
159	Enhancing direct interspecies electron transfer in syntrophic-methanogenic associations with (semi)conductive iron oxides: Effects and mechanisms. <i>Science of the Total Environment</i> , 2019 , 695, 133876	10.2	55
158	Short-chain fatty acid (SCFA) production maximization by modeling thermophilic sludge fermentation. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 11-18	4.2	5
157	Effect of blending landfill leachate with activated sludge on the domestic wastewater treatment process. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 268-276	4.2	12
156	Modulating the conformation of the TIR domain by a neoteric MyD88 inhibitor leads to the separation of GVHD from GVT. <i>Leukemia and Lymphoma</i> , 2019 , 60, 1528-1539	1.9	4
155	In vivo gum arabic-coated tetrahydrobiopterin protects against myocardial ischemia reperfusion injury by preserving eNOS coupling. <i>Life Sciences</i> , 2019 , 219, 294-302	6.8	3
154	Remediation of simulated malodorous surface water by columnar air-cathode microbial fuel cells. <i>Science of the Total Environment</i> , 2019 , 687, 287-296	10.2	19
153	Integrated ultrafiltration-capacitive-deionization (UCDI) for enhanced antifouling performance and synchronous removal of organic matter and salts. <i>Separation and Purification Technology</i> , 2019 , 226, 146-153	8.3	18
152	Stokes Shift and Specific Fluorescence as Potential Indicators of Organic Matter Hydrophobicity and Molecular Weight in Membrane Bioreactors. <i>Environmental Science & Technology</i> , 2019 , 53, 8985-8993	10.3	22
151	Effect of varying piperazine concentration and post-modification on prepared nanofiltration membranes in selectively rejecting organic micropollutants and salts. <i>Journal of Membrane Science</i> , 2019 , 582, 274-283	9.6	60
150	Ni-Induced C-AIO-Framework (CAF) Supported Core-Multishell Catalysts for Efficient Catalytic Ozonation: A Structure-to-Performance Study. <i>Environmental Science & Technology</i> , 2019 , 53, 6917-6926	10.3	41
149	Energy recovery from the flow-electrode capacitive deionization. <i>Journal of Power Sources</i> , 2019 , 421, 50-55	8.9	28
148	Impacts of Metal-Organic Frameworks on Structure and Performance of Polyamide Thin-Film Nanocomposite Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13724-13734	9.5	61
147	Hydrogen sulfide generation and emission in urban sanitary sewer in China: what factor plays the critical role?. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 839-848	4.2	20
146	Superhydrophilic and oleophobic membrane functionalized with heterogeneously tailored two-dimensional layered double hydroxide nanosheets for antifouling. <i>Journal of Membrane Science</i> , 2019 , 577, 165-175	9.6	17

145	Exploring the interactions of organic micropollutants with polyamide nanofiltration membranes: A molecular docking study. <i>Journal of Membrane Science</i> , 2019 , 577, 285-293	9.6	25
144	Achieving mainstream nitrogen removal via the nitrite pathway from real municipal wastewater using intermittent ultrasonic treatment. <i>Ultrasonics Sonochemistry</i> , 2019 , 51, 406-411	8.9	25
143	Enhancing extracellular electron transfer efficiency and bioelectricity production by vapor polymerization Poly (3,4-ethylenedioxythiophene)/MnO hybrid anode. <i>Bioelectrochemistry</i> , 2019 , 126, 72-78	5.6	8
142	DL-cysteine and L-cystine formation and their enhancement effects during sulfur autotrophic denitrification. <i>Science of the Total Environment</i> , 2019 , 695, 133823	10.2	8
141	Effects of ultrasonic treatment on the ammonia-oxidizing bacterial (AOB) growth kinetics. <i>Science of the Total Environment</i> , 2019 , 690, 629-635	10.2	18
140	Dual-signal-biosensor based on luminescent bacteria biofilm for real-time online alert of Cu(II) shock. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111500	11.8	18
139	Decreased charge transport distance by titanium mesh-membrane assembly for flow-electrode capacitive deionization with high desalination performance. <i>Water Research</i> , 2019 , 164, 114904	12.5	36
138	Determination of Surface Energy Parameters of Hydrophilic Porous Membranes via a Corrected Contact Angle Approach. <i>Langmuir</i> , 2019 , 35, 15009-15016	4	8
137	The impact of ultrasonic treatment on activity of ammonia-oxidizing bacteria and nitrite-oxidizing bacteria in activated sludge. <i>Frontiers of Environmental Science and Engineering</i> , 2019 , 13, 1	5.8	4
136	Quantifying the dynamic evolution of organic, inorganic and biological synergistic fouling during nanofiltration using statistical approaches. <i>Environment International</i> , 2019 , 133, 105201	12.9	12
135	Hierarchically textured superhydrophilic polyvinylidene fluoride membrane via nanocasting and post-fabrication grafting of surface-tailored silica nanoparticles. <i>Environmental Science: Nano</i> , 2019 , 6, 3579-3589	7.1	7
134	Current state and challenges of full-scale membrane bioreactor applications: A critical review. <i>Bioresour Technol</i> , 2019 , 271, 473-481	11	163
133	A novel operational strategy to enhance wastewater treatment with dual-anode assembled microbial desalination cell. <i>Bioelectrochemistry</i> , 2019 , 126, 99-104	5.6	17
132	An extended standard blocking filtration law for exploring membrane pore internal fouling due to rate-determining adsorption. <i>Separation and Purification Technology</i> , 2019 , 212, 974-979	8.3	15
131	Removal of antibiotic resistance genes in four full-scale membrane bioreactors. <i>Science of the Total Environment</i> , 2019 , 653, 112-119	10.2	24
130	Preparation of nanofiltration membranes for high rejection of organic micropollutants and low rejection of divalent cations. <i>Journal of Membrane Science</i> , 2019 , 572, 152-160	9.6	50
129	Simultaneous determination of surface energy and roughness of dense membranes by a modified contact angle method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 562, 370-376	5.1	30
128	Conjugative potential of antibiotic resistance plasmids to activated sludge bacteria from wastewater treatment plants. <i>International Biodeterioration and Biodegradation</i> , 2019 , 138, 33-40	4.8	14

127	Anaerobic digestion performance of concentrated municipal sewage by forward osmosis membrane: Focus on the impact of salt and ammonia nitrogen. <i>Bioresource Technology</i> , 2019 , 276, 204-210	11	18
126	Trickling filter in a biocathode microbial fuel cell for efficient wastewater treatment and energy production. <i>Science China Technological Sciences</i> , 2019 , 62, 1703-1709	3.5	5
125	Carbon dioxide and organic waste valorization by microbial electrosynthesis and electro-fermentation. <i>Water Research</i> , 2019 , 149, 42-55	12.5	132
124	Stimulated electron transfer inside electroactive biofilm by magnetite for increased performance microbial fuel cell. <i>Applied Energy</i> , 2018 , 216, 382-388	10.7	40
123	Phosphorus removal by in situ generated Fe(II): Efficacy, kinetics and mechanism. <i>Water Research</i> , 2018 , 136, 120-130	12.5	33
122	Open external circuit for microbial fuel cell sensor to monitor the nitrate in aquatic environment. <i>Biosensors and Bioelectronics</i> , 2018 , 111, 97-101	11.8	29
121	Impact of membrane pore morphology on multi-cycle fouling and cleaning of hydrophobic and hydrophilic membranes during MBR operation. <i>Journal of Membrane Science</i> , 2018 , 556, 312-320	9.6	28
120	Roles of membrane and organic fouling layers on the removal of endocrine disrupting chemicals in microfiltration. <i>Journal of Environmental Sciences</i> , 2018 , 72, 176-184	6.4	5
119	Estimating rainfall-induced inflow and infiltration in a sanitary sewer system based on water quality modelling: which parameter to use?. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 385-393	4.2	7
118	Significant enhancement in catalytic ozonation efficacy: From granular to super-fine powdered activated carbon. <i>Frontiers of Environmental Science and Engineering</i> , 2018 , 12, 1	5.8	18
117	A facile approach to fabrication of superhydrophilic ultrafiltration membranes with surface-tailored nanoparticles. <i>Separation and Purification Technology</i> , 2018 , 203, 251-259	8.3	21
116	One-year operation of 1000-L modularized microbial fuel cell for municipal wastewater treatment. <i>Water Research</i> , 2018 , 141, 1-8	12.5	182
115	Energy-neutral sustainable nutrient recovery incorporated with the wastewater purification process in an enlarged microbial nutrient recovery cell. <i>Journal of Power Sources</i> , 2018 , 384, 160-164	8.9	22
114	A novel microbial fuel cell sensor with a gas diffusion biocathode sensing element for water and air quality monitoring. <i>Chemosphere</i> , 2018 , 203, 21-25	8.4	39
113	Capacitive deionization for nutrient recovery from wastewater with disinfection capability. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 33-39	4.2	27
112	Optimization of membrane unit location in a full-scale membrane bioreactor using computational fluid dynamics. <i>Bioresource Technology</i> , 2018 , 249, 402-409	11	15
111	Direct concentration of municipal sewage by forward osmosis and membrane fouling behavior. <i>Bioresource Technology</i> , 2018 , 247, 730-735	11	58
110	Hydrogen peroxide generation in microbial fuel cells using graphene-based air-cathodes. <i>Bioresource Technology</i> , 2018 , 247, 684-689	11	39

109	Hierarchically textured superhydrophobic polyvinylidene fluoride membrane fabricated via nanocasting for enhanced membrane distillation performance. <i>Desalination</i> , 2018 , 443, 228-236	10.3	40
108	Predictions of the Influent and Operational Conditions for Partial Nitritation with a Model Incorporating pH Dynamics. <i>Environmental Science & Technology</i> , 2018 , 52, 6457-6465	10.3	21
107	Urine-powered synergy of nutrient recovery and urine purification in a microbial electrochemical system. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 1427-1438	4.2	18
106	A novel bioaugmentation strategy to accelerate methanogenesis via adding <i>Geobacter sulfurreducens</i> PCA in anaerobic digestion system. <i>Science of the Total Environment</i> , 2018 , 642, 322-326	10.2	24
105	A novel microfluidic system enables visualization and analysis of antibiotic resistance gene transfer to activated sludge bacteria in biofilm. <i>Science of the Total Environment</i> , 2018 , 642, 582-590	10.2	34
104	Enhancement of salt removal in capacitive deionization cell through periodically alternated oxidation of electrodes. <i>Separation and Purification Technology</i> , 2018 , 194, 451-456	8.3	15
103	Analysis of the mixing performance of a full-scale membrane bioreactor for municipal wastewater treatment. <i>Bioresource Technology</i> , 2018 , 250, 932-935	11	0
102	Fluorescence quotient of excitation-emission matrices as a potential indicator of organic matter behavior in membrane bioreactors. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 281-290	4.2	13
101	Microbial fuel cell sensors for water quality early warning systems: Fundamentals, signal resolution, optimization and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 292-305	16.2	119
100	A Feasible Data-Driven Mining System to Optimize Wastewater Treatment Process Design and Operation. <i>Water (Switzerland)</i> , 2018 , 10, 1342	3	9
99	Real-Time Study of Rapid Spread of Antibiotic Resistance Plasmid in Biofilm Using Microfluidics. <i>Environmental Science & Technology</i> , 2018 , 52, 11132-11141	10.3	32
98	Correlating fluorescence spectral properties with DOM molecular weight and size distribution in wastewater treatment systems. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 1933-1943	4.3	12
97	Characteristic Regions of the Fluorescence Excitation-Emission Matrix (EEM) To Identify Hydrophobic/Hydrophilic Contents of Organic Matter in Membrane Bioreactors. <i>Environmental Science & Technology</i> , 2018 , 52, 11251-11258	10.3	27
96	Electrochemical Control of Redox Potential Arrests Methanogenesis and Regulates Products in Mixed Culture Electro-Fermentation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8650-8658	8.3	41
95	Removal and fate of polycyclic aromatic hydrocarbons in a hybrid anaerobic-anoxic-oxic process for highly toxic coke wastewater treatment. <i>Science of the Total Environment</i> , 2018 , 635, 716-724	10.2	56
94	Microbial electrochemical nutrient recovery in anaerobic osmotic membrane bioreactors. <i>Water Research</i> , 2017 , 114, 181-188	12.5	66
93	A novel microbial fuel cell sensor with biocathode sensing element. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 344-350	11.8	84
92	Enhancement of the sensitivity of a microbial fuel cell sensor by transient-state operation. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 472-479	4.2	24

91	Effects of graphite nanoparticles on nitrification in an activated sludge system. <i>Chemosphere</i> , 2017 , 182, 231-237	8.4	9
90	Evaluating oxygen mass transfer parameters for large-scale engineering application of membrane bioreactors. <i>Process Biochemistry</i> , 2017 , 60, 13-18	4.8	10
89	The Microbial Electrochemical Current Accelerates Urea Hydrolysis for Recovery of Nutrients from Source-Separated Urine. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 305-310	11	37
88	Nitrite production from urine for sulfide control in sewers. <i>Water Research</i> , 2017 , 122, 447-454	12.5	16
87	Addition of conductive particles to improve the performance of activated carbon air-cathodes in microbial fuel cells. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 806-810	4.2	18
86	Enhancement of methanogenesis via direct interspecies electron transfer between Geobacteraceae and Methanosaetaceae conducted by granular activated carbon. <i>Bioresource Technology</i> , 2017 , 245, 132-137	11	69
85	Self-sustaining advanced wastewater purification and simultaneous in situ nutrient recovery in a novel bioelectrochemical system. <i>Chemical Engineering Journal</i> , 2017 , 330, 692-697	14.7	44
84	Advanced Materials, Technologies, and Complex Systems Analyses: Emerging Opportunities to Enhance Urban Water Security. <i>Environmental Science & Technology</i> , 2017 , 51, 10274-10281	10.3	93
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