

# Heng Liang

## 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.

263  
papers

8,113  
citations

50  
h-index

75  
g-index

271  
ext. papers

10,524  
ext. citations

9.1  
avg. IF

6.52  
L-index

#	Paper	IF	Citations
263	Synergistic effects of prokaryotes and oxidants in rapid sand filters treatment of groundwater versus surface water: Purification efficacy, stability and associated mechanisms.. <i>Chemosphere</i> , <b>2022</b> , 295, 133804	8.4	0
262	Effects of Filtration Mode on the Performance of Gravity-Driven Membrane (GDM) Filtration: Cross-Flow Filtration and Dead-End Filtration. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 190	3	0
261	Enhancement of the mariculture wastewater treatment based on the bacterial-microalgal consortium. <i>Materials Science for Energy Technologies</i> , <b>2022</b> , 5, 110-115	5.2	1
260	Pilot-Scale Biological Activated Carbon Filtration/ Ultrafiltration System for Removing Pharmaceutical and Personal Care Products from River Water. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 367	3	0
259	Secondary wastewater treatment using peroxy monosulfate activated by a carbon nanofiber supported Co <sub>3</sub> O <sub>4</sub> (Co <sub>3</sub> O <sub>4</sub> @CNF) catalyst combined with ultrafiltration. <i>Separation and Purification Technology</i> , <b>2022</b> , 287, 120579	8.3	3
258	Evaluating the performance of flow-electrode capacitive deionization for cadmium removal from aqueous solution. <i>Journal of Water Process Engineering</i> , <b>2022</b> , 46, 102595	6.7	1
257	Recycling chestnut shell for superior peroxy monosulfate activation in contaminants degradation via the synergistic radical/non-radical mechanisms.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 430, 128471	12.8	0
256	Synergistic process using calcium peroxide and ferrous iron for enhanced ultrafiltration of Microcystis aeruginosa-laden water.. <i>Water Research</i> , <b>2022</b> , 211, 118067	12.5	7
255	Mechanistic Insights of a Thermoresponsive Interface for Fouling Control of Thin-Film Composite Nanofiltration Membranes.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	3
254	Self-sustained ultrafiltration coupling vermifiltration for decentralized domestic wastewater treatment: Microbial community and mechanism. <i>Resources, Conservation and Recycling</i> , <b>2022</b> , 177, 106008	11.9	5
253	Degradation of antibiotics, organic matters and ammonia during secondary wastewater treatment using boron-doped diamond electro-oxidation combined with ceramic ultrafiltration. <i>Chemosphere</i> , <b>2022</b> , 286, 131680	8.4	4
252	Gravity-driven membrane bioreactor coupled with electrochemical oxidation disinfection (GDMBR-EO) to treat roofing rainwater. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131714	14.7	3
251	Membrane distillation treatment of landfill leachate: Characteristics and mechanism of membrane fouling. <i>Separation and Purification Technology</i> , <b>2022</b> , 289, 120787	8.3	1
250	A novel ceramic-based thin-film composite nanofiltration membrane with enhanced performance and regeneration potential.. <i>Water Research</i> , <b>2022</b> , 215, 118264	12.5	0
249	Evaluation of the performance of ultrasound-assisted membrane distillation crystallization process for water and sodium chloride recovery in hypersaline solution. <i>Desalination</i> , <b>2022</b> , 531, 115727	10.3	0
248	Electrical-based ultrafiltration processes enhanced by in-situ generation of Fe(III): Significance of permanganate oxidation.. <i>Chemosphere</i> , <b>2022</b> , 297, 134066	8.4	0
247	Study on the mechanisms for the influence of nanomaterials on the separation performance of nanocomposite membrane from a modeling perspective. <i>Desalination</i> , <b>2022</b> , 532, 115740	10.3	0

246	Poly(vinylidene fluoride) Substrate-Supported Polyamide Membrane for High-Temperature Water Nanofiltration. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 3820-3832	4.3	0
245	Effect of peroxydisulfate oxidation catalyzed with ordered mesoporous carbons on controlling ultrafiltration membrane fouling by algal organic matter. <i>Chemosphere</i> , <b>2022</b> , 303, 135037	8.4	0
244	Modeling insights into the role of support layer in the enhanced separation performance and stability of nanofiltration membrane. <i>Journal of Membrane Science</i> , <b>2022</b> , 120681	9.6	0
243	Photocatalytic Material-Microbe Hybrids: Applications in Environmental Remediations.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 815181	5.8	0
242	Role of biological granular activated carbon in contaminant removal and ultrafiltration membrane performance in a full-scale system. <i>Journal of Membrane Science</i> , <b>2021</b> , 644, 120122	9.6	1
241	Toward Enhancing Desalination and Heavy Metal Removal of TFC Nanofiltration Membranes: A Cost-Effective Interface Temperature-Regulated Interfacial Polymerization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 57998-58010	9.5	5
240	Core@shell MOFs derived Co2P/CoP@NPGC as a highly-active bifunctional electrocatalyst for ORR/OER. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> ,	6.3	6
239	Regulated-biofilms enhance the permeate flux and quality of gravity-driven membrane (GDM) by in situ coagulation combined with activated alumina filtration.. <i>Water Research</i> , <b>2021</b> , 209, 117947	12.5	2
238	The nitrogen-doped multi-walled carbon nanotubes modified membrane activated peroxymonosulfate for enhanced degradation of organics and membrane fouling mitigation in natural waters treatment.. <i>Water Research</i> , <b>2021</b> , 209, 117960	12.5	1
237	Dual role of boron-doped diamond (BDD) anode in effluent organic matter degradation and ultrafiltration membrane fouling mitigation. <i>Chemosphere</i> , <b>2021</b> , 288, 132660	8.4	0
236	Superior degradation of phenolic contaminants in different water matrices via non-radical Fenton-like mechanism mediated by surface-disordered WO. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	0
235	Chemicals-free approach control interface characteristics of nanofiltration membrane: Feasibility and mechanism insight into CEM electrolysis. <i>Water Research</i> , <b>2021</b> , 206, 117761	12.5	3
234	The influence of environmental factor on the coagulation enhanced ultrafiltration of algae-laden water: Role of two anionic surfactants to the separation performance. <i>Chemosphere</i> , <b>2021</b> , 132745	8.4	2
233	MXene Nanosheet Templated Nanofiltration Membranes toward Ultrahigh Water Transport. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 1270-1278	10.3	25
232	Respective role of iron and manganese in direct ultrafiltration: from membrane fouling to flux improvements. <i>Separation and Purification Technology</i> , <b>2021</b> , 259, 118174	8.3	3
231	Membrane fouling alleviation by chemically enhanced backwashing in treating algae-containing surface water: From bench-scale to full-scale application. <i>Engineering</i> , <b>2021</b> ,	9.7	3
230	Bio-cake layer based ultrafiltration in treating iron-and manganese-containing groundwater: Fast ripening and shock loading. <i>Chemosphere</i> , <b>2021</b> , 268, 128842	8.4	5
229	Comparison between permanganate pre-oxidation and persulfate/iron(II) enhanced coagulation as pretreatment for ceramic membrane ultrafiltration of surface water contaminated with manganese and algae. <i>Environmental Research</i> , <b>2021</b> , 196, 110942	7.9	4

228	Integrating granular activated carbon (GAC) to gravity-driven membrane (GDM) to improve its flux stabilization: Respective roles of adsorption and biodegradation by GAC. <i>Science of the Total Environment</i> , <b>2021</b> , 768, 144758	10.2	11
227	Can ultrafiltration singly treat the iron- and manganese-containing groundwater?. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 409, 124983	12.8	9
226	Effects of oxidation on humic-acid-enhanced gypsum scaling in different nanofiltration phases: Performance, mechanisms and prediction by differential log-transformed absorbance spectroscopy. <i>Water Research</i> , <b>2021</b> , 195, 116989	12.5	3
225	Effects of predator movement patterns on the biofouling layer during gravity-driven membrane filtration in treating surface water. <i>Science of the Total Environment</i> , <b>2021</b> , 771, 145372	10.2	3
224	Pre-depositing PAC-birnessite cake layer on gravity driven ceramic membrane (GDCM) reactor for manganese removal: The significance of stable flux and biofilm. <i>Separation and Purification Technology</i> , <b>2021</b> , 267, 118623	8.3	6
223	Microbial community dynamic shifts associated with sulfamethoxazole degradation in microbial fuel cells. <i>Chemosphere</i> , <b>2021</b> , 274, 129744	8.4	9
222	The role of carboxylated cellulose nanocrystals placement in the performance of thin-film composite (TFC) membrane. <i>Journal of Membrane Science</i> , <b>2021</b> , 617, 118581	9.6	18
221	Stainless steel mesh supported thin-film composite nanofiltration membranes for enhanced permeability and regeneration potential. <i>Journal of Membrane Science</i> , <b>2021</b> , 618, 118738	9.6	11
220	A solar photo-thermochemical hybrid system using peroxydisulfate for organic matters removal and improving ultrafiltration membrane performance in surface water treatment. <i>Water Research</i> , <b>2021</b> , 188, 116482	12.5	8
219	Effect of biopolymers and humic substances on gypsum scaling and membrane wetting during membrane distillation. <i>Journal of Membrane Science</i> , <b>2021</b> , 617, 118638	9.6	43
218	Nanofiltration scaling influenced by coexisting pollutants considering the interaction between ferric coagulant and natural organic macromolecules. <i>Chemical Engineering Journal</i> , <b>2021</b> , 413, 127403	14.7	6
217	Photocatalytic ozonation of organic pollutants in wastewater using a flowing through reactor. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124277	12.8	10
216	Long-term fouling evolution of polyvinyl chloride ultrafiltration membranes in a hybrid short-length sedimentation/ ultrafiltration process for drinking water production. <i>Journal of Membrane Science</i> , <b>2021</b> , 630, 119320	9.6	5
215	Oxidants-assisted sand filter to enhance the simultaneous removals of manganese, iron and ammonia from groundwater: Formation of active MnOx and involved mechanisms. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 415, 125707	12.8	11
214	Bacterial-algae biofilm enhance MABR adapting a wider COD/N ratios wastewater: Performance and mechanism. <i>Science of the Total Environment</i> , <b>2021</b> , 781, 146663	10.2	9
213	Gravity-driven ceramic membrane (GDCM) filtration treating manganese-contaminated surface water: Effects of ozone(O)-aided pre-coating and membrane pore size. <i>Chemosphere</i> , <b>2021</b> , 279, 130603	8.4	3
212	Roofing rainwater cleaner production using pilot-scale electrocoagulation coupled with a gravity-driven membrane bioreactor (EC-GDMBR): Water treatment and energy efficiency. <i>Journal of Cleaner Production</i> , <b>2021</b> , 314, 128055	10.3	4
211	Role of different dimensional carbon nanoparticles in catalytic oxidation of organic pollutants and alleviating membrane fouling during ultrafiltration of surface water. <i>Separation and Purification Technology</i> , <b>2021</b> , 270, 118804	8.3	9

210	Integration of seeding- and heating-induced crystallization with membrane distillation for membrane gypsum scaling and wetting control. <i>Desalination</i> , <b>2021</b> , 511, 115115	10.3	14
209	Tunable isoporous ceramic membranes towards precise sieving of nanoparticles and proteins. <i>Journal of Membrane Science</i> , <b>2021</b> , 634, 119391	9.6	3
208	Combining chlor(am)ine-UV oxidation to ultrafiltration for potable water reuse: Promoted efficiency, membrane fouling control and mechanism. <i>Journal of Membrane Science</i> , <b>2021</b> , 635, 119511	9.6	1
207	Crumple-textured polyamide membranes via MXene nanosheet-regulated interfacial polymerization for enhanced nanofiltration performance. <i>Journal of Membrane Science</i> , <b>2021</b> , 635, 119536	9.6	12
206	Coupling sodium percarbonate (SPC) oxidation and coagulation for membrane fouling mitigation in algae-laden water treatment. <i>Water Research</i> , <b>2021</b> , 204, 117622	12.5	7
205	Fe(II)-activated peroxymonosulfate coupled with nanofiltration removes natural organic matter and sulfamethoxazole in natural surface water: Performance and mechanisms. <i>Separation and Purification Technology</i> , <b>2021</b> , 274, 119088	8.3	10
204	In-situ crystallization generated by CEM electrolysis for NF concentrate softening along with the alleviation of ceramic membrane fouling. <i>Desalination</i> , <b>2021</b> , 516, 115243	10.3	3
203	Surface modification of nanofiltration membranes with zwitterions to enhance antifouling properties during brackish water treatment: A new concept of a Buffer layer. <i>Journal of Membrane Science</i> , <b>2021</b> , 637, 119651	9.6	6
202	Rural drinking water treatment system combining solar-powered electrocoagulation and a gravity-driven ceramic membrane bioreactor. <i>Separation and Purification Technology</i> , <b>2021</b> , 276, 119383	8.3	4
201	Evaluation of applying membrane distillation for landfill leachate treatment. <i>Desalination</i> , <b>2021</b> , 520, 115358	10.3	6
200	The role of PAC adsorption-catalytic oxidation in the ultrafiltration performance for treating natural water: Efficiency improvement, fouling mitigation and mechanisms. <i>Chemosphere</i> , <b>2021</b> , 284, 131561	8.4	6
199	Boron-doped diamond (BDD) electro-oxidation coupled with nanofiltration for secondary wastewater treatment: Antibiotics degradation and biofouling. <i>Environment International</i> , <b>2021</b> , 146, 106291	12.9	10
198	Nanofiltration Membranes with Octopus Arm-Sucker Surface Morphology: Filtration Performance and Mechanism Investigation. <i>Environmental Science &amp; Technology</i> , <b>2021</b> ,	10.3	3
197	Formation mechanism of iron scale in membrane capacitive deionization (MCDI) system. <i>Desalination</i> , <b>2020</b> , 495, 114636	10.3	1
196	Cow manure anaerobic fermentation effluent treatment by oxygen-based membrane aerated biofilm reactor. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 125116	14.7	8
195	Multi-hydrophilic functional network enables porous membranes excellent anti-fouling performance for highly efficient water remediation. <i>Journal of Membrane Science</i> , <b>2020</b> , 608, 118191	9.6	26
194	Application of heat-activated peroxydisulfate pre-oxidation for degrading contaminants and mitigating ultrafiltration membrane fouling in the natural surface water treatment. <i>Water Research</i> , <b>2020</b> , 179, 115905	12.5	27
193	Gravity-driven membrane filtration treating manganese-contaminated surface water: Flux stabilization and removal performance. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125248	14.7	19

192	Improving chlorine resistance and separation performance of thin-film composite nanofiltration membranes with in-situ grafted melamine. <i>Desalination</i> , <b>2020</b> , 489, 114539	10.3	21
191	Activation of peroxymonosulfate by metal oxide nanoparticles for mitigating organic membrane fouling in surface water treatment. <i>Separation and Purification Technology</i> , <b>2020</b> , 246, 116935	8.3	10
190	Poly-and perfluoroalkyl substances in water and wastewater: A comprehensive review from sources to remediation. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 36, 101393	6.7	51
189	Mussel-inspired polydopamine modification of polymeric membranes for the application of water and wastewater treatment: A review. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 157, 195-214	5.5	36
188	Desalination Performance and Fouling Mechanism of Capacitive Deionization: Effects of Natural Organic Matter. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 043501	3.9	5
187	High-performance nanofiltration membranes with a sandwiched layer and a surface layer for desalination and environmental pollutant removal. <i>Science of the Total Environment</i> , <b>2020</b> , 743, 140766	10.2	16
186	Nighttime aeration mode enhanced the microalgae-bacteria symbiosis (ABS) system stability and pollutants removal efficiencies. <i>Science of the Total Environment</i> , <b>2020</b> , 743, 140607	10.2	7
185	Efficient recovery of divalent metals from nanofiltration concentrate based on a hybrid process coupling single-cation electrolysis (SCE) with ultrafiltration (UF). <i>Journal of Membrane Science</i> , <b>2020</b> , 602, 117953	9.6	8
184	Biological sulfamethoxazole degradation along with anaerobically digested centrate treatment by immobilized microalgal-bacterial consortium: Performance, mechanism and shifts in bacterial and microalgal communities. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124217	14.7	41
183	Pre-deposition layers for alleviating ultrafiltration membrane fouling by organic matter: Role of hexagonally and cubically ordered mesoporous carbons. <i>Separation and Purification Technology</i> , <b>2020</b> , 240, 116599	8.3	15
182	Selective carbon sources and salinities enhance enzymes and extracellular polymeric substances extrusion of <i>Chlorella</i> sp. for potential co-metabolism. <i>Bioresource Technology</i> , <b>2020</b> , 303, 122877	11	15
181	The role of ferric coagulant on gypsum scaling and ion interception efficiency in nanofiltration at different pH values: Performance and mechanism. <i>Water Research</i> , <b>2020</b> , 175, 115695	12.5	6
180	Construction of superhydrophilic hierarchical polyacrylonitrile nanofiber membranes by in situ asymmetry engineering for unprecedentedly ultrafast oil/water emulsion separation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 16933-16942	13	39
179	Toward enhancing the separation and antifouling performance of thin-film composite nanofiltration membranes: A novel carbonate-based preoccupation strategy. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 571, 155-165	9.3	20
178	Co-application of energy uncoupling and ultrafiltration in sludge treatment: Evaluations of sludge reduction, supernatant recovery and membrane fouling control. <i>Frontiers of Environmental Science and Engineering</i> , <b>2020</b> , 14, 1	5.8	10
177	Organic carbon promotes algae proliferation in membrane-aeration based bacteria-algae symbiosis system (MA-BA). <i>Water Research</i> , <b>2020</b> , 176, 115736	12.5	15
176	Polyelectrolyte Grafted MOFs Enable Conjugated Membranes for Molecular Separations in Dual Solvent Systems. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100034	6.1	17
175	Metal-polyphenol dual crosslinked graphene oxide membrane for desalination of textile wastewater. <i>Desalination</i> , <b>2020</b> , 487, 114503	10.3	29



174	Sludge activated carbon-based CoFe <sub>2</sub> O <sub>4</sub> -SAC nanocomposites used as heterogeneous catalysts for degrading antibiotic norfloxacin through activating peroxymonosulfate. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123319	14.7	51
173	Adsorption behavior of powdered activated carbon to control capacitive deionization fouling of organic matter. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123277	14.7	16
172	Membrane fouling in an integrated adsorption-UF system: effects of NOM and adsorbent properties. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 78-86	4.2	6
171	In-situ covalently bonded supramolecular-based protective layer for improving chlorine resistance of thin-film composite nanofiltration membranes. <i>Desalination</i> , <b>2020</b> , 474, 114197	10.3	28
170	Immobilizing <i>Microcystis aeruginosa</i> and powdered activated carbon for the anaerobic digestate effluent treatment. <i>Chemosphere</i> , <b>2020</b> , 244, 125420	8.4	11
169	Improving the performance of loose nanofiltration membranes by poly-dopamine/zwitterionic polymer coating with hydroxyl radical activation. <i>Separation and Purification Technology</i> , <b>2020</b> , 238, 116412	8.3	30
168	Scaling behavior of iron in capacitive deionization (CDI) system. <i>Water Research</i> , <b>2020</b> , 171, 115370	12.5	20
167	Front-face fluorescence excitation-emission matrix (FF-EEM) for direct analysis of flocculated suspension without sample preparation in coagulation-ultrafiltration for wastewater reclamation. <i>Water Research</i> , <b>2020</b> , 187, 116452	12.5	14
166	Performance of hollow fiber ultrafiltration membrane in a full-scale drinking water treatment plant in China: A systematic evaluation during 7-year operation. <i>Journal of Membrane Science</i> , <b>2020</b> , 613, 118489	8.6	25
165	Removal of manganese, ferrous and antibiotics from groundwater simultaneously using peroxymonosulfate-assisted in-situ oxidation/coagulation integrated with ceramic membrane process. <i>Separation and Purification Technology</i> , <b>2020</b> , 252, 117492	8.3	13
164	Hybrid UF/NF process treating secondary effluent of wastewater treatment plants for potable water reuse: Adsorption vs. coagulation for removal improvements and membrane fouling alleviation. <i>Environmental Research</i> , <b>2020</b> , 188, 109833	7.9	19
163	Toward tailoring nanofiltration performance of thin-film composite membranes: Novel insights into the role of poly(vinyl alcohol) coating positions. <i>Journal of Membrane Science</i> , <b>2020</b> , 614, 118526	9.6	26
162	Metabolic uncoupler, 3,3',4',5-tetrachlorosalicylanilide addition for sludge reduction and fouling control in a gravity-driven membrane bioreactor. <i>Frontiers of Environmental Science and Engineering</i> , <b>2020</b> , 14, 1	5.8	7
161	Aeration-induced CO <sub>2</sub> stripping, instead of high dissolved oxygen, have a negative impact on algae-bacteria symbiosis (ABS) system stability and wastewater treatment efficiency. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122957	14.7	23
160	Cellulose nanocrystal-blended polyethersulfone membranes for enhanced removal of natural organic matter and alleviation of membrane fouling. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122919	14.7	35
159	Removal of manganese from groundwater in the ripened sand filtration: Biological oxidation versus chemical auto-catalytic oxidation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 123033	14.7	25
158	Factors affecting the removal of bromate and bromide in water by nanofiltration. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 24639-24649	5.1	8
157	Ultrathin Thin-Film Composite Polyamide Membranes Constructed on Hydrophilic Poly(vinyl alcohol) Decorated Support Toward Enhanced Nanofiltration Performance. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 6365-6374	10.3	66

156	Ordered Mesoporous Cobalt Containing Perovskite as a High-Performance Heterogeneous Catalyst in Activation of Peroxymonosulfate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35720-35728	9.5	57
155	The performance of gravity-driven membrane (GDM) filtration for roofing rainwater reuse: Implications of roofing rainwater energy and rainwater purification. <i>Science of the Total Environment</i> , <b>2019</b> , 697, 134187	10.2	20
154	Insight into Fe(II)/UV/chlorine pretreatment for reducing ultrafiltration (UF) membrane fouling: Effects of different natural organic fractions and comparison with coagulation. <i>Water Research</i> , <b>2019</b> , 167, 115112	12.5	25
153	Role of organic fouling layer on the rejection of trace organic solutes by nanofiltration: mechanisms and implications. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 33827-33837	5.1	4
152	Improving ultrafiltration membrane performance with pre-deposited carbon nanotubes/nanofibers layers for drinking water treatment. <i>Chemosphere</i> , <b>2019</b> , 234, 545-557	8.4	26
151	Effect of pre-oxidation on low pressure membrane (LPM) for water and wastewater treatment: A review. <i>Chemosphere</i> , <b>2019</b> , 231, 287-300	8.4	48
150	Supramolecular-Based Regenerable Coating Layer of a Thin-Film Composite Nanofiltration Membrane for Simultaneously Enhanced Desalination and Antifouling Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21137-21149	9.5	49
149	Organic matter removal and membrane fouling mitigation during algae-rich surface water treatment by powdered activated carbon adsorption pretreatment: Enhanced by UV and UV/chlorine oxidation. <i>Water Research</i> , <b>2019</b> , 159, 283-293	12.5	45
148	Enhancement of anaerobic digestion effluent treatment by microalgae immobilization: Characterized by fluorescence excitation-emission matrix coupled with parallel factor analysis in the photobioreactor. <i>Science of the Total Environment</i> , <b>2019</b> , 678, 105-113	10.2	22
147	Fabrication of a double-helical photocatalytic module for disinfection and antibiotics degradation. <i>Water Environment Research</i> , <b>2019</b> , 91, 918-925	2.8	1
146	Development of highly permeable polyelectrolytes (PEs)/UiO-66 nanofiltration membranes for dye removal. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 147, 222-231	5.5	29
145	Development of correlation spectroscopy (COS) method for analyzing fluorescence excitation emission matrix (EEM): A case study of effluent organic matter (EfOM) ozonation. <i>Chemosphere</i> , <b>2019</b> , 228, 35-43	8.4	20
144	Application of peroxymonosulfate-based advanced oxidation process as a novel pretreatment for nanofiltration: Comparison with conventional coagulation. <i>Separation and Purification Technology</i> , <b>2019</b> , 224, 255-264	8.3	14
143	Inorganic coagulant induced gypsum scaling in nanofiltration process: Effects of coagulant concentration, coagulant conditioning time and fouling strategies. <i>Science of the Total Environment</i> , <b>2019</b> , 670, 685-695	10.2	13
142	Peroxymonosulfate-assisted electro-oxidation/coagulation coupled with ceramic membrane for manganese and phosphorus removal in surface water. <i>Chemical Engineering Journal</i> , <b>2019</b> , 365, 334-343	14.7	28
141	Combined effects of coagulation and adsorption on ultrafiltration membrane fouling control and subsequent disinfection in drinking water treatment. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 33770-33780	5.1	7
140	A comparison study of sand filtration and ultrafiltration in drinking water treatment: Removal of organic foulants and disinfection by-product formation. <i>Science of the Total Environment</i> , <b>2019</b> , 691, 322-331	10.2	32
139	Peroxymonosulfate-assisted electrolytic oxidation/ coagulation combined with ceramic ultrafiltration for surface water treatment: Membrane fouling and sulfamethazine degradation. <i>Journal of Cleaner Production</i> , <b>2019</b> , 235, 779-788	10.3	30



138	Application of membrane distillation to anaerobic digestion effluent treatment: Identifying culprits of membrane fouling and scaling. <i>Science of the Total Environment</i> , <b>2019</b> , 688, 880-889	10.2	42
137	Flower-like BiOBr/UiO-66-NH nanosphere with improved photocatalytic property for norfloxacin removal. <i>Chemosphere</i> , <b>2019</b> , 220, 98-106	8.4	76
136	Blending high concentration of anaerobic digestion effluent and rainwater for cost-effective <i>Chlorella vulgaris</i> cultivation in the photobioreactor. <i>Chemical Engineering Journal</i> , <b>2019</b> , 360, 861-865	14.7	18
135	Effect of peroxymonosulfate oxidation activated by powdered activated carbon for mitigating ultrafiltration membrane fouling caused by different natural organic matter fractions. <i>Chemosphere</i> , <b>2019</b> , 221, 812-823	8.4	35
134	Fabrication and characterization of thin-film composite (TFC) nanofiltration membranes incorporated with cellulose nanocrystals (CNCs) for enhanced desalination performance and dye removal. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 1519-1528	14.7	107
133	Obtaining High-Purity Struvite from Anaerobically Digested Wastewater: Effects of pH, Mg/P, and Ca <sup>2+</sup> Interactions. <i>Environmental Engineering Science</i> , <b>2019</b> , 36, 102-113	2	11
132	Characterization of fluorescence foulants on ultrafiltration membrane using front-face excitation-emission matrix (FF-EEM) spectroscopy: Fouling evolution and mechanism analysis. <i>Water Research</i> , <b>2019</b> , 148, 546-555	12.5	30
131	Effects of water temperature and light intensity on the performance of gravity-driven membrane system. <i>Chemosphere</i> , <b>2019</b> , 216, 324-330	8.4	12
130	Implementation of a specific urban water management - Sponge City. <i>Science of the Total Environment</i> , <b>2019</b> , 652, 147-162	10.2	138
129	Surface coating of UF membranes to improve antifouling properties: A comparison study between cellulose nanocrystals (CNCs) and cellulose nanofibrils (CNFs). <i>Chemosphere</i> , <b>2019</b> , 217, 76-84	8.4	60
128	Synergistic effects of wheat straw powder and persulfate/Fe(II) on enhancing sludge dewaterability. <i>Chemosphere</i> , <b>2019</b> , 215, 333-341	8.4	17
127	Treatment of anaerobic digestion effluent using membrane distillation: Effects of feed acidification on pollutant removal, nutrient concentration and membrane fouling. <i>Desalination</i> , <b>2019</b> , 449, 6-15	10.3	31
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123	Free-standing hierarchical $\beta$ MnO@CuO membrane for catalytic filtration degradation of organic pollutants. <i>Chemosphere</i> , <b>2018</b> , 200, 237-247	8.4	60
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114	A critical review on ammonium recovery from wastewater for sustainable wastewater management. <i>Bioresource Technology</i> , <b>2018</b> , 268, 749-758	11	101
113	Immobilized microalgae for anaerobic digestion effluent treatment in a photobioreactor-ultrafiltration system: Algal harvest and membrane fouling control. <i>Bioresource Technology</i> , <b>2018</b> , 268, 139-148	11	29
112	Photocatalytic reduction of Uranium(VI) under visible light with Sn-doped InS microspheres. <i>Chemosphere</i> , <b>2018</b> , 212, 114-123	8.4	47
111	Ultra-low pressure membrane-based bio-purification process for decentralized drinking water supply: Improved permeability and removal performance. <i>Chemosphere</i> , <b>2018</b> , 211, 784-793	8.4	15
110	Effect of sulfate radical-based oxidation pretreatments for mitigating ceramic UF membrane fouling caused by algal extracellular organic matter. <i>Water Research</i> , <b>2018</b> , 145, 39-49	12.5	67
109	High-performance polyamide thin-film composite nanofiltration membrane: Role of thermal treatment. <i>Applied Surface Science</i> , <b>2018</b> , 435, 415-423	6.7	19
108	Enhanced nitrogen and phosphorus removal from domestic wastewater via algae-assisted sequencing batch biofilm reactor. <i>Bioresource Technology</i> , <b>2018</b> , 250, 185-190	11	50
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92	Effect of filtration mode and backwash water on hydraulically irreversible fouling of ultrafiltration membrane. <i>Chemosphere</i> , <b>2017</b> , 179, 254-264	8.4	21
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9	Membrane coagulation bioreactor (MCBR) for drinking water treatment. <i>Water Research</i> , <b>2008</b> , 42, 3910-1205	10.3	58
8	Start-up of membrane bioreactor for treating polluted source water. <i>Journal of Biotechnology</i> , <b>2008</b> , 136, S673	3.7	
7	Enhancement of organics removal in membrane bioreactor by addition of coagulant for drinking water treatment. <i>Journal of Biotechnology</i> , <b>2008</b> , 136, S668	3.7	2
6	Cleaning of fouled ultrafiltration (UF) membrane by algae during reservoir water treatment. <i>Desalination</i> , <b>2008</b> , 220, 267-272	10.3	83
5	Performance evaluation of water treatment ultrafiltration pilot plants treating algae-rich reservoir water. <i>Desalination</i> , <b>2008</b> , 221, 345-350	10.3	35
4	Effect of pretreatment by permanganate/chlorine on algae fouling control for ultrafiltration (UF) membrane system. <i>Desalination</i> , <b>2008</b> , 222, 74-80	10.3	60
3	Membrane adsorption bioreactor (MABR) for treating slightly polluted surface water supplies: As compared to membrane bioreactor (MBR). <i>Journal of Membrane Science</i> , <b>2008</b> , 325, 262-270	9.6	55
2	Using chloramine as a coagulant aid in enhancing coagulation of Yellow River water in China. <i>Journal of Zhejiang University: Science A</i> , <b>2007</b> , 8, 1475-1481	2.1	4
1	Two-dimensional materials beyond graphene for the detection and removal of antibiotics: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 1-32	11.1	4