Heng Liang

List of Publications by Citations

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	Membrane fouling control in ultrafiltration technology for drinking water production: A review. *Desalination*, **2011**, 272, 1-8	10.3	576
262	Characterization of dissolved extracellular organic matter (dEOM) and bound extracellular organic matter (bEOM) of Microcystis aeruginosa and their impacts on UF membrane fouling. *Water Research*, **2012**, 46, 2881-90	12.5	238
261	Ultrafiltration membrane fouling by extracellular organic matters (EOM) of Microcystis aeruginosa in stationary phase: influences of interfacial characteristics of foulants and fouling mechanisms. *Water Research*, **2012**, 46, 1490-500	12.5	203
260	Ultrafiltration membrane fouling caused by extracellular organic matter (EOM) from Microcystis aeruginosa: Effects of membrane pore size and surface hydrophobicity. *Journal of Membrane Science*, **2014**, 449, 58-66	9.6	184
259	Implementation of a specific urban water management - Sponge City. *Science of the Total Environment*, **2019**, 652, 147-162	10.2	138
258	Fabrication and characterization of thin-film composite (TFC) nanofiltration membranes incorporated with cellulose nanocrystals (CNCs) for enhanced desalination performance and dye removal. *Chemical Engineering Journal*, **2019**, 358, 1519-1528	14.7	107
257	Incorporation of Cellulose Nanocrystals (CNCs) into the Polyamide Layer of Thin-Film Composite (TFC) Nanofiltration Membranes for Enhanced Separation Performance and Antifouling Properties. *Environmental Science & Technology*, **2018**, 52, 11178-11187	10.3	105
256	Ferrous iron/peroxymonosulfate oxidation as a pretreatment for ceramic ultrafiltration membrane: Control of natural organic matter fouling and degradation of atrazine. *Water Research*, **2017**, 113, 32-41	12.5	104
255	A critical review on ammonium recovery from wastewater for sustainable wastewater management. *Bioresource Technology*, **2018**, 268, 749-758	11	101
254	Control of natural organic matter fouling of ultrafiltration membrane by adsorption pretreatment: Comparison of mesoporous adsorbent resin and powdered activated carbon. *Journal of Membrane Science*, **2014**, 471, 94-102	9.6	100
253	Effects of pre-ozonation on the ultrafiltration of different natural organic matter (NOM) fractions: Membrane fouling mitigation, prediction and mechanism. *Journal of Membrane Science*, **2016**, 505, 15-25	9.6	96
252	Surface modification of UF membranes with functionalized MWCNTs to control membrane fouling by NOM fractions. *Journal of Membrane Science*, **2015**, 492, 400-411	9.6	94
251	Relationship between soluble microbial products (SMP) and effluent organic matter (EfOM): characterized by fluorescence excitation emission matrix coupled with parallel factor analysis. *Chemosphere*, **2015**, 121, 101-9	8.4	91
250	Hydraulic backwashing for low-pressure membranes in drinking water treatment: A review. *Journal of Membrane Science*, **2017**, 540, 362-380	9.6	91
249	Microbial community structures in a closed raw water distribution system biofilm as revealed by 454-pyrosequencing analysis and the effect of microbial biofilm communities on raw water quality. *Bioresource Technology*, **2013**, 148, 189-95	11	88
248	Ultrafiltration (UF) membrane fouling caused by cyanobateria: Fouling effects of cells and extracellular organics matter (EOM). *Desalination*, **2012**, 293, 30-37	10.3	85
247	Cleaning of fouled ultrafiltration (UF) membrane by algae during reservoir water treatment. *Desalination*, **2008**, 220, 267-272	10.3	83

246	Impact of aeration shear stress on permeate flux and fouling layer properties in a low pressure membrane bioreactor for the treatment of grey water. *Journal of Membrane Science*, **2016**, 510, 382-390	9.6	81
245	Reducing ultrafiltration membrane fouling during potable water reuse using pre-ozonation. *Water Research*, **2017**, 125, 42-51	12.5	80
244	Hydraulic irreversibility of ultrafiltration membrane fouling by humic acid: Effects of membrane properties and backwash water composition. *Journal of Membrane Science*, **2015**, 493, 723-733	9.6	78
243	Flower-like BiOBr/UiO-66-NH nanosphere with improved photocatalytic property for norfloxacin removal. *Chemosphere*, **2019**, 220, 98-106	8.4	76
242	Consecutive chemical cleaning of fouled PVC membrane using NaOH and ethanol during ultrafiltration of river water. *Water Research*, **2010**, 44, 59-68	12.5	75
241	Reinvestigation of the nitrosamine-formation mechanism during ozonation. *Environmental Science & Technology*, **2009**, 43, 5481-7	10.3	73
240	Fluorescent natural organic matter fractions responsible for ultrafiltration membrane fouling: Identification by adsorption pretreatment coupled with parallel factor analysis of excitation□mission matrices. *Journal of Membrane Science*, **2014**, 464, 33-42	9.6	72
239	Comparison of Hydrophilicity and Mechanical Properties of Nanocomposite Membranes with Cellulose Nanocrystals and Carbon Nanotubes. *Environmental Science & Technology*, **2017**, 51, 253-262	10.3	71
238	Microcystis aeruginosa-laden water treatment using enhanced coagulation by persulfate/Fe(II), ozone and permanganate: Comparison of the simultaneous and successive oxidant dosing strategy. *Water Research*, **2017**, 125, 72-80	12.5	70
237	Membrane Fouling and Rejection of Organics during Algae-Laden Water Treatment Using Ultrafiltration: A Comparison between in Situ Pretreatment with Fe(II)/Persulfate and Ozone. *Environmental Science & Technology*, **2018**, 52, 765-774	10.3	67
236	Effect of sulfate radical-based oxidation pretreatments for mitigating ceramic UF membrane fouling caused by algal extracellular organic matter. *Water Research*, **2018**, 145, 39-49	12.5	67
235	Effect of PAC addition on immersed ultrafiltration for the treatment of algal-rich water. *Journal of Hazardous Materials*, **2011**, 186, 1415-24	12.8	67
234	Ultrathin Thin-Film Composite Polyamide Membranes Constructed on Hydrophilic Poly(vinyl alcohol) Decorated Support Toward Enhanced Nanofiltration Performance. *Environmental Science & Technology*, **2020**, 54, 6365-6374	10.3	66
233	Combined influence by humic acid (HA) and powdered activated carbon (PAC) particles on ultrafiltration membrane fouling. *Journal of Membrane Science*, **2016**, 500, 99-105	9.6	65
232	Algae removal by ultrasonic irradiation□oagulation. *Desalination*, **2009**, 239, 191-197	10.3	65
231	Removal of iron, manganese and ammonia from groundwater using a PAC-MBR system: The anti-pollution ability, microbial population and membrane fouling. *Desalination*, **2017**, 403, 97-106	10.3	63
230	Free-standing hierarchical □MnO@CuO membrane for catalytic filtration degradation of organic pollutants. *Chemosphere*, **2018**, 200, 237-247	8.4	60
229	Effect of pretreatment by permanganate/chlorine on algae fouling control for ultrafiltration (UF) membrane system. *Desalination*, **2008**, 222, 74-80	10.3	60

228	Surface coating of UF membranes to improve antifouling properties: A comparison study between cellulose nanocrystals (CNCs) and cellulose nanofibrils (CNFs). *Chemosphere*, **2019**, 217, 76-84	8.4	60
227	Algae-laden water treatment using ultrafiltration: Individual and combined fouling effects of cells, debris, extracellular and intracellular organic matter. *Journal of Membrane Science*, **2017**, 528, 178-186	9.6	58
226	Membrane coagulation bioreactor (MCBR) for drinking water treatment. *Water Research*, **2008**, 42, 3910-20	12.5	58
225	Application of Fe(II)/peroxymonosulfate for improving ultrafiltration membrane performance in surface water treatment: Comparison with coagulation and ozonation. *Water Research*, **2017**, 124, 298-307	12.5	58
224	Ordered Mesoporous Cobalt Containing Perovskite as a High-Performance Heterogeneous Catalyst in Activation of Peroxymonosulfate. *ACS Applied Materials & Interfaces*, **2019**, 11, 35720-35728	9.5	57
223	Impact of dataset diversity on accuracy and sensitivity of parallel factor analysis model of dissolved organic matter fluorescence excitation-emission matrix. *Scientific Reports*, **2015**, 5, 10207	4.9	57
222	Combined effects of PAC adsorption and in situ chlorination on membrane fouling in a pilot-scale coagulation and ultrafiltration process. *Chemical Engineering Journal*, **2016**, 283, 1374-1383	14.7	55
221	Presence of an adsorbent cake layer improves the performance of gravity-driven membrane (GDM) filtration system. *Water Research*, **2017**, 108, 240-249	12.5	55
220	Membrane adsorption bioreactor (MABR) for treating slightly polluted surface water supplies: As compared to membrane bioreactor (MBR). *Journal of Membrane Science*, **2008**, 325, 262-270	9.6	55
219	Biodiesel production with the simultaneous removal of nitrogen, phosphorus and COD in microalgal-bacterial communities for the treatment of anaerobic digestion effluent in photobioreactors. *Chemical Engineering Journal*, **2018**, 350, 1092-1102	14.7	54
218	Chemical cleaning of fouled PVC membrane during ultrafiltration of algal-rich water. *Journal of Environmental Sciences*, **2011**, 23, 529-36	6.4	53
217	Removal of antimony (III) from polluted surface water using a hybrid coagulation□flocculation□ultrafiltration (CF□UF) process. *Chemical Engineering Journal*, **2014**, 254, 293-301	14.7	52
216	Poly-and perfluoroalkyl substances in water and wastewater: A comprehensive review from sources to remediation. *Journal of Water Process Engineering*, **2020**, 36, 101393	6.7	51
215	A low energy gravity-driven membrane bioreactor system for grey water treatment: Permeability and removal performance of organics. *Journal of Membrane Science*, **2017**, 542, 408-417	9.6	51
214	Sludge activated carbon-based CoFe2O4-SAC nanocomposites used as heterogeneous catalysts for degrading antibiotic norfloxacin through activating peroxymonosulfate. *Chemical Engineering Journal*, **2020**, 384, 123319	14.7	51
213	Microcystis aeruginosa-laden surface water treatment using ultrafiltration: Membrane fouling, cell integrity and extracellular organic matter rejection. *Water Research*, **2017**, 112, 83-92	12.5	50
212	Enhanced nitrogen and phosphorus removal from domestic wastewater via algae-assisted sequencing batch biofilm reactor. *Bioresource Technology*, **2018**, 250, 185-190	11	50
211	Supramolecular-Based Regenerable Coating Layer of a Thin-Film Composite Nanofiltration Membrane for Simultaneously Enhanced Desalination and Antifouling Properties. *ACS Applied Materials & Interfaces*, **2019**, 11, 21137-21149	9.5	49

210	Performance of mesoporous adsorbent resin and powdered activated carbon in mitigating ultrafiltration membrane fouling caused by algal extracellular organic matter. *Desalination*, **2014**, 336, 129-137	10.3	49
209	Effect of pre-oxidation on low pressure membrane (LPM) for water and wastewater treatment: A review. *Chemosphere*, **2019**, 231, 287-300	8.4	48
208	Photocatalytic reduction of Uranium(VI) under visible light with Sn-doped InS microspheres. *Chemosphere*, **2018**, 212, 114-123	8.4	47
207	Role of backwash water composition in alleviating ultrafiltration membrane fouling by sodium alginate and the effectiveness of salt backwashing. *Journal of Membrane Science*, **2016**, 499, 429-441	9.6	46
206	Reverse osmosis brine treatment using direct contact membrane distillation: Effects of feed temperature and velocity. *Desalination*, **2017**, 423, 149-156	10.3	46
205	Coagulation efficiency and flocs characteristics of recycling sludge during treatment of low temperature and micro-polluted water. *Journal of Environmental Sciences*, **2012**, 24, 1014-20	6.4	46
204	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. *Water Research*, **2019**, 159, 283-293	12.5	45
203	Control of ultrafiltration membrane fouling caused by Microcystis cells with permanganate preoxidation: Significance of in situ formed manganese dioxide. *Chemical Engineering Journal*, **2015**, 279, 56-65	14.7	45
202	Application of low-dosage UV/chlorine pre-oxidation for mitigating ultrafiltration (UF) membrane fouling in natural surface water treatment. *Chemical Engineering Journal*, **2018**, 344, 62-70	14.7	45
201	Coupling GAC to ultra-low-pressure filtration to modify the biofouling layer and bio-community: Flux enhancement and water quality improvement. *Chemical Engineering Journal*, **2018**, 333, 289-299	14.7	45
200	Understanding ultrafiltration membrane fouling by extracellular organic matter of Microcystis aeruginosa using fluorescence excitation–emission matrix coupled with parallel factor analysis. *Desalination*, **2014**, 337, 67-75	10.3	44
199	Biofouling control by biostimulation of quorum-quenching bacteria in a membrane bioreactor for wastewater treatment. *Biotechnology and Bioengineering*, **2016**, 113, 2624-2632	4.9	43
198	Selection and evaluation of biofilm carrier in anaerobic digestion treatment of cattle manure. *Energy*, **2011**, 36, 3572-3578	7.9	43
197	Effect of biopolymers and humic substances on gypsum scaling and membrane wetting during membrane distillation. *Journal of Membrane Science*, **2021**, 617, 118638	9.6	43
196	In situ coagulation versus pre-coagulation for gravity-driven membrane bioreactor during decentralized sewage treatment: Permeability stabilization, fouling layer formation and biological activity. *Water Research*, **2017**, 126, 197-207	12.5	42
195	Application of membrane distillation to anaerobic digestion effluent treatment: Identifying culprits of membrane fouling and scaling. *Science of the Total Environment*, **2019**, 688, 880-889	10.2	42
194	Control of ultrafiltration membrane fouling caused by algal extracellular organic matter (EOM) using enhanced Al coagulation with permanganate. *Separation and Purification Technology*, **2017**, 172, 51-58	8.3	42
193	Biological sulfamethoxazole degradation along with anaerobically digested centrate treatment by immobilized microalgal-bacterial consortium: Performance, mechanism and shifts in bacterial and microalgal communities. *Chemical Engineering Journal*, **2020**, 388, 124217	14.7	41

192	Submerged membrane bioreactor (sMBR) for the treatment of contaminated raw water. *Chemical Engineering Journal*, **2009**, 148, 296-305	14.7	41
191	Construction of superhydrophilic hierarchical polyacrylonitrile nanofiber membranes by in situ asymmetry engineering for unprecedently ultrafast oil/water emulsion separation. *Journal of Materials Chemistry A*, **2020**, 8, 16933-16942	13	39
190	Integrative membrane coagulation adsorption bioreactor (MCABR) for enhanced organic matter removal in drinking water treatment. *Journal of Membrane Science*, **2010**, 352, 205-212	9.6	38
189	Deposition of powdered activated carbon (PAC) on ultrafiltration (UF) membrane surface: influencing factors and mechanisms. *Journal of Membrane Science*, **2017**, 530, 104-111	9.6	37
188	Fabrication of Mn oxide incorporated ceramic membranes for membrane fouling control and enhanced catalytic ozonation of p -chloronitrobenzene. *Chemical Engineering Journal*, **2017**, 308, 1010-1020	14.7	37
187	Mussel-inspired polydopamine modification of polymeric membranes for the application of water and wastewater treatment: A review. *Chemical Engineering Research and Design*, **2020**, 157, 195-214	5.5	36
186	Performance evaluation of water treatment ultrafiltration pilot plants treating algae-rich reservoir water. *Desalination*, **2008**, 221, 345-350	10.3	35
185	Effect of peroxymonosulfate oxidation activated by powdered activated carbon for mitigating ultrafiltration membrane fouling caused by different natural organic matter fractions. *Chemosphere* , **2019**, 221, 812-823	8.4	35
184	Cellulose nanocrystal-blended polyethersulfone membranes for enhanced removal of natural organic matter and alleviation of membrane fouling. *Chemical Engineering Journal*, **2020**, 382, 122919	14.7	35
183	A low pressure gravity-driven membrane filtration (GDM) system for rainwater recycling: Flux stabilization and removal performance. *Chemosphere*, **2017**, 172, 21-28	8.4	34
182	Fluorescent natural organic matter responsible for ultrafiltration membrane fouling: Fate, contributions and fouling mechanisms. *Chemosphere*, **2017**, 182, 183-193	8.4	32
181	A comparison study of sand filtration and ultrafiltration in drinking water treatment: Removal of organic foulants and disinfection by-product formation. *Science of the Total Environment*, **2019**, 691, 322-331	10.2	32
180	Effects of GAC layer on the performance of gravity-driven membrane filtration (GDM) system for rainwater recycling. *Chemosphere*, **2018**, 191, 253-261	8.4	31
179	Towards a better hydraulic cleaning strategy for ultrafiltration membrane fouling by humic acid: Effect of backwash water composition. *Journal of Environmental Sciences*, **2016**, 43, 177-186	6.4	31
178	Treatment of anaerobic digestion effluent using membrane distillation: Effects of feed acidification on pollutant removal, nutrient concentration and membrane fouling. *Desalination*, **2019**, 449, 6-15	10.3	31
177	Effect of operation parameters on the flux stabilization of gravity-driven membrane (GDM) filtration system for decentralized water supply. *Environmental Science and Pollution Research*, **2016**, 23, 16771-80	5.1	30
176	Peroxymonosulfate-assisted electrolytic oxidation/ coagulation combined with ceramic ultrafiltration for surface water treatment: Membrane fouling and sulfamethazine degradation. *Journal of Cleaner Production*, **2019**, 235, 779-788	10.3	30
175	Improving the performance of loose nanofiltration membranes by poly-dopamine/zwitterionic polymer coating with hydroxyl radical activation. *Separation and Purification Technology*, **2020**, 238, 116412	8.3	30

174	Characterization of fluorescence foulants on ultrafiltration membrane using front-face excitation-emission matrix (FF-EEM) spectroscopy: Fouling evolution and mechanism analysis. *Water Research*, **2019**, 148, 546-555	12.5	30
173	Development of highly permeable polyelectrolytes (PEs)/UiO-66 nanofiltration membranes for dye removal. *Chemical Engineering Research and Design*, **2019**, 147, 222-231	5.5	29
172	Immobilized microalgae for anaerobic digestion effluent treatment in a photobioreactor-ultrafiltration system: Algal harvest and membrane fouling control. *Bioresource Technology*, **2018**, 268, 139-148	11	29
171	Metal-polyphenol dual crosslinked graphene oxide membrane for desalination of textile wastewater. *Desalination*, **2020**, 487, 114503	10.3	29
170	Peroxymonosulfate-assisted electro-oxidation/coagulation coupled with ceramic membrane for manganese and phosphorus removal in surface water. *Chemical Engineering Journal*, **2019**, 365, 334-343	14.7	28
169	In-situ covalently bonded supramolecular-based protective layer for improving chlorine resistance of thin-film composite nanofiltration membranes. *Desalination*, **2020**, 474, 114197	10.3	28
168	Biological pre-treatments enhance gravity-driven membrane filtration for the decentralized water supply: Linking extracellular polymeric substances formation to flux stabilization. *Journal of Cleaner Production*, **2018**, 197, 721-731	10.3	28
167	Application of heat-activated peroxydisulfate pre-oxidation for degrading contaminants and mitigating ultrafiltration membrane fouling in the natural surface water treatment. *Water Research* , **2020**, 179, 115905	12.5	27
166	Membrane fouling during ultrafiltration (UF) of surface water: Effects of sludge discharge interval (SDI). *Desalination*, **2013**, 319, 18-24	10.3	27
165	Control of submerged hollow fiber membrane fouling caused by fine particles in photocatalytic membrane reactors using bubbly flow: Shear stress and particle forces analysis. *Separation and Purification Technology*, **2017**, 172, 130-139	8.3	27
164	Hybrid process of BAC and sMBR for treating polluted raw water. *Bioresource Technology*, **2009**, 100, 6243-9	11	27
163	Improving ultrafiltration membrane performance with pre-deposited carbon nanotubes/nanofibers layers for drinking water treatment. *Chemosphere*, **2019**, 234, 545-557	8.4	26
162	Multi-hydrophilic functional network enables porous membranes excellent anti-fouling performance for highly efficient water remediation. *Journal of Membrane Science*, **2020**, 608, 118191	9.6	26
161	Toward tailoring nanofiltration performance of thin-film composite membranes: Novel insights into the role of poly(vinyl alcohol) coating positions. *Journal of Membrane Science*, **2020**, 614, 118526	9.6	26
160	Can membrane bioreactor be a smart option for water treatment?. *Bioresource Technology Reports*, **2018**, 4, 80-87	4.1	26
159	Insight into Fe(II)/UV/chlorine pretreatment for reducing ultrafiltration (UF) membrane fouling: Effects of different natural organic fractions and comparison with coagulation. *Water Research*, **2019**, 167, 115112	12.5	25
158	Effect of granular activated carbon addition on the effluent properties and fouling potentials of membrane-coupled expanded granular sludge bed process. *Bioresource Technology*, **2014**, 171, 240-6	11	25
157	Effect of adding wood chips on sewage sludge dewatering in a pilot-scale plate-and-frame filter press process. *RSC Advances*, **2014**, 4, 24762-24768	3.7	25

156	MXene Nanosheet Templated Nanofiltration Membranes toward Ultrahigh Water Transport. *Environmental Science & Technology*, **2021**, 55, 1270-1278	10.3	25
155	Performance of hollow fiber ultrafiltration membrane in a full-scale drinking water treatment plant in China: A systematic evaluation during 7-year operation. *Journal of Membrane Science*, **2020**, 613, 118489	9.6	25
154	Removal of manganese from groundwater in the ripened sand filtration: Biological oxidation versus chemical auto-catalytic oxidation. *Chemical Engineering Journal*, **2020**, 382, 123033	14.7	25
153	Comparison of evaluation methods for Microcystis cell breakage based on dissolved organic carbon release, potassium release and flow cytometry. *Chemical Engineering Journal*, **2015**, 281, 174-182	14.7	24
152	Effect of solid retention time on membrane fouling in membrane bioreactor: from the perspective of quorum sensing and quorum quenching. *Applied Microbiology and Biotechnology*, **2016**, 100, 7887-97	5.7	24
151	Impact of bubbly flow in feed channel of forward osmosis for wastewater treatment: Flux performance and biofouling. *Chemical Engineering Journal*, **2017**, 316, 1047-1058	14.7	23
150	Effect of quorum quenching on biofouling and ammonia removal in membrane bioreactor under stressful conditions. *Chemosphere*, **2018**, 199, 114-121	8.4	23
149	Aeration-induced CO2 stripping, instead of high dissolved oxygen, have a negative impact on algae–bacteria symbiosis (ABS) system stability and wastewater treatment efficiency. *Chemical Engineering Journal*, **2020**, 382, 122957	14.7	23
148	Enhancement of anaerobic digestion effluent treatment by microalgae immobilization: Characterized by fluorescence excitation-emission matrix coupled with parallel factor analysis in the photobioreactor. *Science of the Total Environment*, **2019**, 678, 105-113	10.2	22
147	Shear stress in a pressure-driven membrane system and its impact on membrane fouling from a hydrodynamic condition perspective: a review. *Journal of Chemical Technology and Biotechnology*, **2017**, 92, 463-478	3.5	22
146	Understanding ultrafiltration membrane fouling by soluble microbial product and effluent organic matter using fluorescence excitation–emission matrix coupled with parallel factor analysis. *International Biodeterioration and Biodegradation*, **2015**, 102, 56-63	4.8	22
145	Coupling continuous sand filtration to ultrafiltration for drinking water treatment: Improved performance and membrane fouling control. *Journal of Membrane Science*, **2018**, 567, 18-27	9.6	22
144	Effect of filtration mode and backwash water on hydraulically irreversible fouling of ultrafiltration membrane. *Chemosphere*, **2017**, 179, 254-264	8.4	21
143	Improving chlorine resistance and separation performance of thin-film composite nanofiltration membranes with in-situ grafted melamine. *Desalination*, **2020**, 489, 114539	10.3	21
142	Membrane technology for municipal drinking water plants in China: progress and prospect. *Desalination and Water Treatment*, **2012**, 49, 281-295		21
141	The performance of gravity-driven membrane (GDM) filtration for roofing rainwater reuse: Implications of roofing rainwater energy and rainwater purification. *Science of the Total Environment*, **2019**, 697, 134187	10.2	20
140	Development of correlation spectroscopy (COS) method for analyzing fluorescence excitation emission matrix (EEM): A case study of effluent organic matter (EfOM) ozonation. *Chemosphere*, **2019**, 228, 35-43	8.4	20
139	Effect of calcium addition on sludge properties and membrane fouling potential of the membrane-coupled expanded granular sludge bed process. *Journal of Membrane Science*, **2015**, 489, 55-63	9.6	20

138	Toward enhancing the separation and antifouling performance of thin-film composite nanofiltration membranes: A novel carbonate-based preoccupation strategy. *Journal of Colloid and Interface Science*, **2020**, 571, 155-165	9.3	20
137	Reverse osmosis brine treatment using direct contact membrane distillation (DCMD): effect of membrane characteristics on desalination performance and the wetting phenomenon. *Environmental Science: Water Research and Technology*, **2018**, 4, 428-437	4.2	20
136	Application of response surface methodology to the chemical cleaning process of ultrafiltration membrane. *Chinese Journal of Chemical Engineering*, **2016**, 24, 651-657	3.2	20
135	Performance of adsorption pretreatment in mitigating humic acid fouling of ultrafiltration membrane under environmentally relevant ionic conditions. *Desalination*, **2016**, 377, 91-98	10.3	20
134	Scaling behavior of iron in capacitive deionization (CDI) system. *Water Research*, **2020**, 171, 115370	12.5	20
133	Gravity-driven membrane filtration treating manganese-contaminated surface water: Flux stabilization and removal performance. *Chemical Engineering Journal*, **2020**, 397, 125248	14.7	19
132	Measuring the activity of heterotrophic microorganism in membrane bioreactor for drinking water treatment. *Bioresource Technology*, **2013**, 130, 136-43	11	19
131	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. *Environmental Research*, **2020**, 188, 109833	7.9	19
130	High-performance polyamide thin-film composite nanofiltration membrane: Role of thermal treatment. *Applied Surface Science*, **2018**, 435, 415-423	6.7	19
129	Particle deposition on flat sheet membranes under bubbly and slug flow aeration in coagulation-microfiltration process: Effects of particle characteristic and shear stress. *Journal of Membrane Science*, **2017**, 541, 668-676	9.6	18
128	Integration of immersed membrane ultrafiltration with the reuse of PAC and alum sludge (RPAS) process for drinking water treatment. *Desalination*, **2009**, 249, 440-444	10.3	18
127	Blending high concentration of anaerobic digestion effluent and rainwater for cost-effective Chlorella vulgaris cultivation in the photobioreactor. *Chemical Engineering Journal*, **2019**, 360, 861-865	14.7	18
126	The role of carboxylated cellulose nanocrystals placement in the performance of thin-film composite (TFC) membrane. *Journal of Membrane Science*, **2021**, 617, 118581	9.6	18
125	Polyelectrolyte Grafted MOFs Enable Conjugated Membranes for Molecular Separations in Dual Solvent Systems. *Cell Reports Physical Science*, **2020**, 1, 100034	6.1	17
124	Effect of PAC particle layer on the performance of gravity-driven membrane filtration (GDM) system during rainwater treatment. *Environmental Science: Water Research and Technology*, **2018**, 4, 48-57	4.2	17
123	A novel integrated vertical membrane bioreactor (IVMBR) for removal of nitrogen from synthetic wastewater/domestic sewage. *Chemical Engineering Journal*, **2013**, 223, 908-914	14.7	17
122	Synergistic effects of wheat straw powder and persulfate/Fe(II) on enhancing sludge dewaterability. *Chemosphere*, **2019**, 215, 333-341	8.4	17
121	Effects of manganese dioxides on the ultrafiltration membrane fouling by algal extracellular organic matter. *Separation and Purification Technology*, **2015**, 153, 29-36	8.3	16

120	High-performance nanofiltration membranes with a sandwiched layer and a surface layer for desalination and environmental pollutant removal. *Science of the Total Environment*, **2020**, 743, 140766	10.2	16
119	Characterization of membrane foulants in a pilot-scale powdered activated carbon membrane bioreactor for drinking water treatment. *Process Biochemistry*, **2014**, 49, 1741-1746	4.8	16
118	Comparison of biological activated carbon (BAC) and membrane bioreactor (MBR) for pollutants removal in drinking water treatment. *Water Science and Technology*, **2009**, 60, 1515-23	2.2	16
117	Adsorption behavior of powdered activated carbon to control capacitive deionization fouling of organic matter. *Chemical Engineering Journal*, **2020**, 384, 123277	14.7	16
116	Effect of metabolic uncoupler, 2,4-dinitrophenol (DNP) on sludge properties and fouling potential in ultrafiltration membrane process. *Science of the Total Environment*, **2019**, 650, 1882-1888	10.2	16
115	Pre-deposition layers for alleviating ultrafiltration membrane fouling by organic matter: Role of hexagonally and cubically ordered mesoporous carbons. *Separation and Purification Technology*, **2020**, 240, 116599	8.3	15
114	Selective carbon sources and salinities enhance enzymes and extracellular polymeric substances extrusion of Chlorella sp. for potential co-metabolism. *Bioresource Technology*, **2020**, 303, 122877	11	15
113	Organic carbon promotes algae proliferation in membrane-aeration based bacteria-algae symbiosis system (MA-BA). *Water Research*, **2020**, 176, 115736	12.5	15
112	Ultra-low pressure membrane-based bio-purification process for decentralized drinking water supply: Improved permeability and removal performance. *Chemosphere*, **2018**, 211, 784-793	8.4	15
111	Microbial community composition and electricity generation in cattle manure slurry treatment using microbial fuel cells: effects of inoculum addition. *Environmental Science and Pollution Research*, **2017**, 24, 23226-23235	5.1	15
110	Application of peroxymonosulfate-based advanced oxidation process as a novel pretreatment for nanofiltration: Comparison with conventional coagulation. *Separation and Purification Technology*, **2019**, 224, 255-264	8.3	14
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