Heng Liang

List of Publications by Year
in descending order

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		16411	37111
269	13,224	64	96
papers	citations	h-index	g-index

271	271	271	7920
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Membrane fouling control in ultrafiltration technology for drinking water production: A review. Desalination, 2011, 272, 1-8.	4.0	717
2	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, 2881-2890.	5.3	316
3	Implementation of a specific urban water management - Sponge City. Science of the Total Environment, 2019, 652, 147-162.	3.9	265
4	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, 1490-1500.	5.3	255
5	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.	4.1	236
6	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.	4.6	185
7	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.	6.6	183
8	A critical review on ammonium recovery from wastewater for sustainable wastewater management. Bioresource Technology, 2018, 268, 749-758.	4.8	176
9	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.	5.3	173
10	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.	4.6	168
11	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.	4.1	142
12	Hydraulic backwashing for low-pressure membranes in drinking water treatment: A review. Journal of Membrane Science, 2017, 540, 362-380.	4.1	138
13	Flower-like BiOBr/UiO-66-NH2 nanosphere with improved photocatalytic property for norfloxacin removal. Chemosphere, 2019, 220, 98-106.	4.2	130
14	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.	4.1	128
15	Surface modification of UF membranes with functionalized MWCNTs to control membrane fouling by NOM fractions. Journal of Membrane Science, 2015, 492, 400-411.	4.1	121
16	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.	5.3	121
17	Sludge activated carbon-based CoFe2O4-SAC nanocomposites used as heterogeneous catalysts for degrading antibiotic norfloxacin through activating peroxymonosulfate. Chemical Engineering Journal, 2020, 384, 123319.	6.6	121
18	Polyâ€and perfluoroalkyl substances in water and wastewater: A comprehensive review from sources to remediation. Journal of Water Process Engineering, 2020, 36, 101393.	2.6	118

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19	Reducing ultrafiltration membrane fouling during potable water reuse using pre-ozonation. Water Research, 2017, 125, 42-51.	5.3	113
20	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.	5.3	113
21	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.	4.6	111
22	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, 101-109.	4.2	107
23	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, 189-195.	4.8	104
24	Ultrafiltration (UF) membrane fouling caused by cyanobateria: Fouling effects of cells and extracellular organics matter (EOM). Desalination, 2012, 293, 30-37.	4.0	103
25	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.	4.1	102
26	MXene Nanosheet Templated Nanofiltration Membranes toward Ultrahigh Water Transport. Environmental Science & Technology, 2021, 55, 1270-1278.	4.6	102
27	Free-standing hierarchical Î±-MnO2@CuO membrane for catalytic filtration degradation of organic pollutants. Chemosphere, 2018, 200, 237-247.	4.2	101
28	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.	4.1	100
29	Comparison of Hydrophilicity and Mechanical Properties of Nanocomposite Membranes with Cellulose Nanocrystals and Carbon Nanotubes. Environmental Science & Technology, 2017, 51, 253-262.	4.6	99
30	Fluorescent natural organic matter fractions responsible for ultrafiltration membrane fouling: Identification by adsorption pretreatment coupled with parallel factor analysis of excitationâ€“emission matrices. Journal of Membrane Science, 2014, 464, 33-42.	4.1	98
31	Cleaning of fouled ultrafiltration (UF) membrane by algae during reservoir water treatment. Desalination, 2008, 220, 267-272.	4.0	97
32	Reinvestigation of the Nitrosamine-Formation Mechanism during Ozonation. Environmental Science & Technology, 2009, 43, 5481-5487.	4.6	94
33	Consecutive chemical cleaning of fouled PVC membrane using NaOH and ethanol during ultrafiltration of river water. Water Research, 2010, 44, 59-68.	5.3	93
34	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.	4.0	92
35	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.	4.0	92
36	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.	4.1	91

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37	Ordered Mesoporous Cobalt Containing Perovskite as a High-Performance Heterogeneous Catalyst in Activation of Peroxymonosulfate. ACS Applied Materials & Interfaces, 2019, 11, 35720-35728.	4.0	88
38	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.	4.2	88
39	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.	5.3	88
40	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.	2.7	87
41	Enhanced nitrogen and phosphorus removal from domestic wastewater via algae-assisted sequencing batch biofilm reactor. Bioresource Technology, 2018, 250, 185-190.	4.8	84
42	Presence of an adsorbent cake layer improves the performance of gravity-driven membrane (GDM) filtration system. Water Research, 2017, 108, 240-249.	5.3	82
43	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.	6.6	80
44	Photocatalytic reduction of Uranium(VI) under visible light with Sn-doped In2S3 microspheres. Chemosphere, 2018, 212, 114-123.	4.2	80
45	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.	5.3	80
46	Combined influence by humic acid (HA) and powdered activated carbon (PAC) particles on ultrafiltration membrane fouling. Journal of Membrane Science, 2016, 500, 99-105.	4.1	79
47	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.	6.6	79
48	Microcystis aeruginosa -laden surface water treatment using ultrafiltration: Membrane fouling, cell integrity and extracellular organic matter rejection. Water Research, 2017, 112, 83-92.	5.3	78
49	Cellulose nanocrystal-blended polyethersulfone membranes for enhanced removal of natural organic matter and alleviation of membrane fouling. Chemical Engineering Journal, 2020, 382, 122919.	6.6	78
50	Effect of biopolymers and humic substances on gypsum scaling and membrane wetting during membrane distillation. Journal of Membrane Science, 2021, 617, 118638.	4.1	78
51	Effect of PAC addition on immersed ultrafiltration for the treatment of algal-rich water. Journal of Hazardous Materials, 2011, 186, 1415-1424.	6.5	77
52	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.	4.1	77
53	Algae removal by ultrasonic irradiationâ€“coagulation. Desalination, 2009, 239, 191-197.	4.0	73
54	Construction of superhydrophilic hierarchical polyacrylonitrile nanofiber membranes by in situ asymmetry engineering for unprecedently ultrafast oilâ€“water emulsion separation. Journal of Materials Chemistry A, 2020, 8, 16933-16942.	5.2	73

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55	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.	1.6	72
56	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.	6.6	72
57	Removal of antimony (III) from polluted surface water using a hybrid coagulationâ€“flocculationâ€“ultrafiltration (CFâ€“UF) process. Chemical Engineering Journal, 2014, 254, 293-301.	6.6	70
58	Effect of pre-oxidation on low pressure membrane (LPM) for water and wastewater treatment: A review. Chemosphere, 2019, 231, 287-300.	4.2	70
59	Membrane coagulation bioreactor (MCBR) for drinking water treatment. Water Research, 2008, 42, 3910-3920.	5.3	69
60	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.	6.6	68
61	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.	5.3	68
62	Reverse osmosis brine treatment using direct contact membrane distillation: Effects of feed temperature and velocity. Desalination, 2017, 423, 149-156.	4.0	67
63	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.	6.6	67
64	Effect of pretreatment by permanganate/chlorine on algae fouling control for ultrafiltration (UF) membrane system. Desalination, 2008, 222, 74-80.	4.0	66
65	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.	4.1	66
66	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.	4.1	65
67	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.	4.1	65
68	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.	5.3	64
69	Crumple-textured polyamide membranes via MXene nanosheet-regulated interfacial polymerization for enhanced nanofiltration performance. Journal of Membrane Science, 2021, 635, 119536.	4.1	64
70	Metal-polyphenol dual crosslinked graphene oxide membrane for desalination of textile wastewater. Desalination, 2020, 487, 114503.	4.0	64
71	Chemical cleaning of fouled PVC membrane during ultrafiltration of algal-rich water. Journal of Environmental Sciences, 2011, 23, 529-536.	3.2	63
72	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.	3.9	63

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73	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.	6.6	62
74	Removal of manganese from groundwater in the ripened sand filtration: Biological oxidation versus chemical auto-catalytic oxidation. Chemical Engineering Journal, 2020, 382, 123033.	6.6	62
75	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.	6.6	61
76	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.	4.0	60
77	Biofouling control by biostimulation of quorumâ€quenching bacteria in a membrane bioreactor for wastewater treatment. Biotechnology and Bioengineering, 2016, 113, 2624-2632.	1.7	59
78	Coagulation efficiency and flocs characteristics of recycling sludge during treatment of low temperature and micro-polluted water. Journal of Environmental Sciences, 2012, 24, 1014-1020.	3.2	58
79	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, 118469.	4.1	58
80	In-situ covalently bonded supramolecular-based protective layer for improving chlorine resistance of thin-film composite nanofiltration membranes. Desalination, 2020, 474, 114197.	4.0	57
81	Toward Enhancing Desalination and Heavy Metal Removal of TFC Nanofiltration Membranes: A Cost-Effective Interface Temperature-Regulated Interfacial Polymerization. ACS Applied Materials & Interfaces, 2021, 13, 57998-58010.	4.0	57
82	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.	3.9	54
83	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.	4.0	54
84	Deposition of powdered activated carbon (PAC) on ultrafiltration (UF) membrane surface: influencing factors and mechanisms. Journal of Membrane Science, 2017, 530, 104-111.	4.1	53
85	Understanding ultrafiltration membrane fouling by extracellular organic matter of Microcystis aeruginosa using fluorescence excitationâ€“emission matrix coupled with parallel factor analysis. Desalination, 2014, 337, 67-75.	4.0	52
86	A low pressure gravity-driven membrane filtration (GDM) system for rainwater recycling: Flux stabilization and removal performance. Chemosphere, 2017, 172, 21-28.	4.2	52
87	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.	4.2	52
88	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.	5.3	52
89	Coupling sodium percarbonate (SPC) oxidation and coagulation for membrane fouling mitigation in algae-laden water treatment. Water Research, 2021, 204, 117622.	5.3	52
90	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.	5.3	51

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91	Surface modification of nanofiltration membranes with zwitterions to enhance antifouling properties during brackish water treatment: A new concept of a â€œbuffer layerâ€. Journal of Membrane Science, 2021, 637, 119651.	4.1	51
92	Selection and evaluation of biofilm carrier in anaerobic digestion treatment of cattle manure. Energy, 2011, 36, 3572-3578.	4.5	50
93	Effects of GAC layer on the performance of gravity-driven membrane filtration (GDM) system for rainwater recycling. Chemosphere, 2018, 191, 253-261.	4.2	50
94	Core@shell MOFs derived Co2P/CoP@NPGC as a highly-active bifunctional electrocatalyst for ORR/OER. Journal of Industrial and Engineering Chemistry, 2022, 106, 492-502.	2.9	50
95	Fluorescent natural organic matter responsible for ultrafiltration membrane fouling: Fate, contributions and fouling mechanisms. Chemosphere, 2017, 182, 183-193.	4.2	49
96	Improving the performance of loose nanofiltration membranes by poly-dopamine/zwitterionic polymer coating with hydroxyl radical activation. Separation and Purification Technology, 2020, 238, 116412.	3.9	49
97	Improving chlorine resistance and separation performance of thin-film composite nanofiltration membranes with in-situ grafted melamine. Desalination, 2020, 489, 114539.	4.0	49
98	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.	3.9	48
99	Aeration-induced CO2 stripping, instead of high dissolved oxygen, have a negative impact on algaeâ€“bacteria symbiosis (ABS) system stability and wastewater treatment efficiency. Chemical Engineering Journal, 2020, 382, 122957.	6.6	48
100	Peroxymonosulfate-assisted electro-oxidation/coagulation coupled with ceramic membrane for manganese and phosphorus removal in surface water. Chemical Engineering Journal, 2019, 365, 334-343.	6.6	47
101	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.	3.7	47
102	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.	5.0	47
103	Submerged membrane bioreactor (sMBR) for the treatment of contaminated raw water. Chemical Engineering Journal, 2009, 148, 296-305.	6.6	46
104	Integrative membrane coagulation adsorption bioreactor (MCABR) for enhanced organic matter removal in drinking water treatment. Journal of Membrane Science, 2010, 352, 205-212.	4.1	46
105	Gravity-driven membrane filtration treating manganese-contaminated surface water: Flux stabilization and removal performance. Chemical Engineering Journal, 2020, 397, 125248.	6.6	46
106	Synergistic process using calcium peroxide and ferrous iron for enhanced ultrafiltration of Microcystis aeruginosa-laden water. Water Research, 2022, 211, 118067.	5.3	46
107	Performance evaluation of water treatment ultrafiltration pilot plants treating algae-rich reservoir water. Desalination, 2008, 221, 345-350.	4.0	45
108	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.	3.2	45

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109	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.	4.6	45
110	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.	4.6	43
111	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.	1.6	42
112	Oxidants-assisted sand filter to enhance the simultaneous removals of manganese, iron and ammonia from groundwater: Formation of active MnOx and involved mechanisms. Journal of Hazardous Materials, 2021, 415, 125707.	6.5	42
113	Immobilized microalgae for anaerobic digestion effluent treatment in a photobioreactor-ultrafiltration system: Algal harvest and membrane fouling control. Bioresource Technology, 2018, 268, 139-148.	4.8	41
114	Secondary wastewater treatment using peroxymonosulfate activated by a carbon nanofiber supported Co3O4 (Co3O4@CNF) catalyst combined with ultrafiltration. Separation and Purification Technology, 2022, 287, 120579.	3.9	41
115	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.	1.7	40
116	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, 16771-16780.	2.7	39
117	Front-face fluorescence excitation-emission matrix (FF-EEM) for direct analysis of flocculated suspension without sample preparation in coagulation-ultrafiltration for wastewater reclamation. Water Research, 2020, 187, 116452.	5.3	39
118	Multi-hydrophilic functional network enables porous membranes excellent anti-fouling performance for highly efficient water remediation. Journal of Membrane Science, 2020, 608, 118191.	4.1	39
119	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.	3.9	38
120	Can ultrafiltration singly treat the iron- and manganese-containing groundwater?. Journal of Hazardous Materials, 2021, 409, 124983.	6.5	38
121	Performance of adsorption pretreatment in mitigating humic acid fouling of ultrafiltration membrane under environmentally relevant ionic conditions. Desalination, 2016, 377, 91-98.	4.0	37
122	Removal of manganese, ferrous and antibiotics from groundwater simultaneously using peroxymonosulfate-assisted in-situ oxidation/coagulation integrated with ceramic membrane process. Separation and Purification Technology, 2020, 252, 117492.	3.9	37
123	Nanofiltration Membranes with Octopus Arm-Sucker Surface Morphology: Filtration Performance and Mechanism Investigation. Environmental Science & Technology, 2021, 55, 16676-16686.	4.6	37
124	Development of highly permeable polyelectrolytes (PEs)/UiO-66 nanofiltration membranes for dye removal. Chemical Engineering Research and Design, 2019, 147, 222-231.	2.7	36
125	The role of carboxylated cellulose nanocrystals placement in the performance of thin-film composite (TFC) membrane. Journal of Membrane Science, 2021, 617, 118581.	4.1	36
126	The nitrogen-doped multi-walled carbon nanotubes modified membrane activated peroxymonosulfate for enhanced degradation of organics and membrane fouling mitigation in natural waters treatment. Water Research, 2022, 209, 117960.	5.3	36

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127	Coupling continuous sand filtration to ultrafiltration for drinking water treatment: Improved performance and membrane fouling control. Journal of Membrane Science, 2018, 567, 18-27.	4.1	34
128	Improving ultrafiltration membrane performance with pre-deposited carbon nanotubes/nanofibers layers for drinking water treatment. Chemosphere, 2019, 234, 545-557.	4.2	34
129	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.	3.9	33
130	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.	4.2	33
131	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.	3.9	33
132	Evaluation of applying membrane distillation for landfill leachate treatment. Desalination, 2021, 520, 115358.	4.0	33
133	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, 7887-7897.	1.7	32
134	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.	3.9	32
135	Scaling behavior of iron in capacitive deionization (CDI) system. Water Research, 2020, 171, 115370.	5.3	32
136	Organic carbon promotes algae proliferation in membrane-aeration based bacteria-algae symbiosis system (MA-BA). Water Research, 2020, 176, 115736.	5.3	32
137	Mechanistic Insights of a Thermoresponsive Interface for Fouling Control of Thin-Film Composite Nanofiltration Membranes. Environmental Science & Technology, 2022, 56, 1927-1937.	4.6	32
138	Can membrane bioreactor be a smart option for water treatment?. Bioresource Technology Reports, 2018, 4, 80-87.	1.5	31
139	Role of different dimensional carbon nanoparticles in catalytic oxidation of organic pollutants and alleviating membrane fouling during ultrafiltration of surface water. Separation and Purification Technology, 2021, 270, 118804.	3.9	31
140	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.	6.6	30
141	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.	4.1	30
142	Hybrid process of BAC and sMBR for treating polluted raw water. Bioresource Technology, 2009, 100, 6243-6249.	4.8	29
143	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.	3.9	29
144	Adsorption behavior of powdered activated carbon to control capacitive deionization fouling of organic matter. Chemical Engineering Journal, 2020, 384, 123277.	6.6	29

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145	Microbial community dynamic shifts associated with sulfamethoxazole degradation in microbial fuel cells. Chemosphere, 2021, 274, 129744.	4.2	29
146	Boron-doped diamond (BDD) electro-oxidation coupled with nanofiltration for secondary wastewater treatment: Antibiotics degradation and biofouling. Environment International, 2021, 146, 106291.	4.8	29
147	Application of response surface methodology to the chemical cleaning process of ultrafiltration membrane. Chinese Journal of Chemical Engineering, 2016, 24, 651-657.	1.7	28
148	Effect of quorum quenching on biofouling and ammonia removal in membrane bioreactor under stressful conditions. Chemosphere, 2018, 199, 114-121.	4.2	28
149	High-performance polyamide thin-film composite nanofiltration membrane: Role of thermal treatment. Applied Surface Science, 2018, 435, 415-423.	3.1	28
150	Synergistic effects of wheat straw powder and persulfate/Fe(II) on enhancing sludge dewaterability. Chemosphere, 2019, 215, 333-341.	4.2	28
151	Selective carbon sources and salinities enhance enzymes and extracellular polymeric substances extrusion of Chlorella sp. for potential co-metabolism. Bioresource Technology, 2020, 303, 122877.	4.8	28
152	Stainless steel mesh supported thin-film composite nanofiltration membranes for enhanced permeability and regeneration potential. Journal of Membrane Science, 2021, 618, 118738.	4.1	28
153	Membrane distillation treatment of landfill leachate: Characteristics and mechanism of membrane fouling. Separation and Purification Technology, 2022, 289, 120787.	3.9	28
154	Membrane fouling during ultrafiltration (UF) of surface water: Effects of sludge discharge interval (SDI). Desalination, 2013, 319, 18-24.	4.0	27
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