

# Zhiwei Wang

## 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.

275  
papers

10,160  
citations

55  
h-index

86  
g-index

293  
ext. papers

12,649  
ext. citations

9.2  
avg. IF

6.9  
L-index

#	Paper	IF	Citations
275	Effective factors for the performance of a co-generation system for bioethanol and electricity production via microbial fuel cell technology. <i>Biochemical Engineering Journal</i> , <b>2022</b> , 178, 108309	4.2	0
274	Electrocoagulation pretreatment reduced the synergistic inhibition of anaerobic granular sludge by micro stickies and Ca <sup>2+</sup> and delayed the calcification of granular sludge. <i>Industrial Crops and Products</i> , <b>2022</b> , 178, 114584	5.9	0
273	Omniphobic membrane via bioinspired silicification for the treatment of RO concentrate by membrane distillation. <i>Journal of Membrane Science</i> , <b>2022</b> , 647, 120267	9.6	3
272	Heteroatom-doped porous carbon nanoparticle-decorated carbon cloth (HPCN/CC) as efficient anode electrode for microbial fuel cells (MFCs). <i>Journal of Cleaner Production</i> , <b>2022</b> , 336, 130374	10.3	0
271	Recent advances in nature-inspired antifouling membranes for water purification. <i>Chemical Engineering Journal</i> , <b>2022</b> , 432, 134425	14.7	4
270	Study on the mechanism of inhibiting the calcification of anaerobic granular sludge induced by the addition of trace signal molecule (3O-C6-HSL). <i>Bioresource Technology</i> , <b>2022</b> , 344, 126232	11	1
269	Recent advances in membrane biofilm reactor for micropollutants removal: Fundamentals, performance and microbial communities. <i>Bioresource Technology</i> , <b>2022</b> , 343, 126139	11	3
268	Tuning the primary selective nanochannels of MOF thin-film nanocomposite nanofiltration membranes for efficient removal of hydrophobic endocrine disrupting compounds. <i>Frontiers of Environmental Science and Engineering</i> , <b>2022</b> , 16, 1	5.8	8
267	Pd <sup>0</sup> 2 interaction and singlet oxygen formation in a novel reactive electrochemical membrane for ultrafast sulfamethoxazole oxidation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131194	14.7	4
266	Evaluating of the performance of natural mineral vermiculite modified PVDF membrane for oil/water separation by membrane fouling model and XDLVO theory. <i>Journal of Membrane Science</i> , <b>2022</b> , 641, 119886	9.6	4
265	Metal-organic framework enables ultraselective polyamide membrane for desalination and water reuse.. <i>Science Advances</i> , <b>2022</b> , 8, eabm4149	14.3	8
264	Emerging Challenges and Opportunities for Electrified Membranes to Enhance Water Treatment.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	1
263	Artificial intelligence-incorporated membrane fouling prediction for membrane-based processes in the past 20 years: A critical review.. <i>Water Research</i> , <b>2022</b> , 216, 118299	12.5	4
262	Zr6O8-porphyrinic MOFs as promising catalysts for the boosting photocatalytic degradation of contaminants in high salinity wastewater. <i>Chemical Engineering Journal</i> , <b>2022</b> , 440, 135883	14.7	3
261	Effective and Selective Removal of Phosphate from Wastewater Using Guanidinium-Functionalized Polyelectrolyte-Modified Electrodes in Capacitive Deionization. <i>ACS ES&amp;T Water</i> , <b>2022</b> , 2, 237-246		1
260	Electrochemical membrane materials and modules <b>2022</b> , 81-110		
259	Introduction to electrochemical membrane technology: current status and recent developments <b>2022</b> , 1-42		

258	Effects of different -acyl-serine lactone signaling molecules on the performance of anaerobic granular sludge.. <i>RSC Advances</i> , <b>2022</b> , 12, 5439-5446	3.7	0
257	Recent advances in electrocatalytic membrane for the removal of micropollutants from water and wastewater. <i>IScience</i> , <b>2022</b> , 104342	6.1	0
256	Mechanistic insights into CO pressure regulating microbial competition in a hydrogen-based membrane biofilm reactor for denitrification.. <i>Chemosphere</i> , <b>2022</b> , 303, 134875	8.4	0
255	Modification of ultrafiltration membrane with antibacterial agent intercalated layered nanosheets: Toward superior antibiofouling performance for water treatment.. <i>Water Research</i> , <b>2022</b> , 219, 118539	12.5	3
254	Biofouling suppresses effluent toxicity in an electrochemical filtration system for remediation of sulfanilic acid-contaminated water.. <i>Water Research</i> , <b>2022</b> , 219, 118545	12.5	0
253	Efficient removal of micropollutants from low-conductance surface water using an electrochemical Janus ceramic membrane filtration system. <i>Water Research</i> , <b>2022</b> , 220, 118627	12.5	0
252	Tuning of nanofiltration membrane by multifunctionalized nanovesicles to enable an ultrahigh dye/salt separation at high salinity. <i>Journal of Membrane Science</i> , <b>2021</b> , 644, 120094	9.6	1
251	Fluorescent N-functionalized carbon nanodots from carboxymethylcellulose for sensing of high-valence metal ions and cell imaging.. <i>RSC Advances</i> , <b>2021</b> , 11, 34898-34907	3.7	
250	Mechanistic insights into chemical conditioning by polyacrylamide with different charge densities and its impacts on sludge dewaterability. <i>Chemical Engineering Journal</i> , <b>2021</b> , 410, 128425	14.7	9
249	Highly Active and Stable Palladium Catalysts on Novel Ceria-Alumina Supports for Efficient Oxidation of Carbon Monoxide and Hydrocarbons. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 7624-7633	10.3	7
248	Enhanced removal of hydrophobic endocrine disrupting compounds from wastewater by nanofiltration membranes intercalated with hydrophilic MoS <sub>2</sub> nanosheets: Role of surface properties and internal nanochannels. <i>Journal of Membrane Science</i> , <b>2021</b> , 628, 119267	9.6	15
247	Development of a Mechanically Flexible 2D-MXene Membrane Cathode for Selective Electrochemical Reduction of Nitrate to N: Mechanisms and Implications. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 10695-10703	10.3	14
246	Aramid Nanofiber Membranes Reinforced by MXene Nanosheets for Recovery of Dyes from Textile Wastewater. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 6328-6336	5.6	3
245	An anaerobic dynamic membrane bioreactor for enhancing sludge digestion: Impact of solids retention time on digestion efficacy. <i>Bioresource Technology</i> , <b>2021</b> , 329, 124864	11	7
244	Efficacy of electrochemical membrane bioreactor for virus removal from wastewater: Performance and mechanisms. <i>Bioresource Technology</i> , <b>2021</b> , 330, 124946	11	7
243	State-of-the-art management technologies of dissolved methane in anaerobically-treated low-strength wastewaters: A review. <i>Water Research</i> , <b>2021</b> , 200, 117269	12.5	5
242	An electrochemical membrane biofilm reactor for removing sulfonamides from wastewater and suppressing antibiotic resistance development: Performance and mechanisms. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 404, 124198	12.8	12
241	Effects of graphene derivatives on polyvinylidene fluoride membrane modification evaluated with XDLVO theory and quartz crystal microbalance with dissipation. <i>Water Environment Research</i> , <b>2021</b> , 93, 360-369	2.8	1

240	In situ growth of nano-ZnO/GQDs on cellulose paper for dual repelling function against water and bacteria. <i>Materials Letters</i> , <b>2021</b> , 283, 128838	3.3	8
239	Integration of a Photo-Fenton Reaction and a Membrane Filtration using CS/PAN@FeOOH/g-C <sub>3</sub> N <sub>4</sub> Electrospun Nanofibers: Synthesis, Characterization, Self-cleaning Performance and Mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 281, 119519	21.8	40
238	Effect of support nature on catalytic activity of the bimetallic RuCo nanoparticles for the oxidative removal of 1,2-dichloroethane. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 285, 119804	21.8	11
237	Self-Enhanced Decomplexation of Cu-Organic Complexes and Cu Recovery from Wastewaters Using an Electrochemical Membrane Filtration System. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 655-664	10.3	27
236	Cleaning/Healing/Interfacial Polymerization Strategy for Upcycling Real End-of-Life Polyvinylidene Fluoride Microfiltration Membranes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 10352-10360	8.3	2
235	Support promotion effect on the SO and K co-poisoning resistance of MnO/TiO for NH-SCR of NO. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 416, 126117	12.8	13
234	Desalination: From Ancient to Present and Future. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 2222	3	7
233	Facile synthesis of cobalt Disulfide/Carbon nanotube composite as High-performance supercapacitors electrode. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 897, 115570	4.1	0
232	Efficacy of a novel electrochemical membrane-aerated biofilm reactor for removal of antibiotics from micro-polluted surface water and suppression of antibiotic resistance genes. <i>Bioresource Technology</i> , <b>2021</b> , 338, 125527	11	8
231	Advances in metal(loid) oxyanion removal by zerovalent iron: Kinetics, pathways, and mechanisms. <i>Chemosphere</i> , <b>2021</b> , 280, 130766	8.4	10
230	Evaluation of nutrient removal performance and resource recovery potential of anaerobic/anoxic/aerobic membrane bioreactor with limited aeration. <i>Bioresource Technology</i> , <b>2021</b> , 340, 125728	11	3
229	Robust dual-layer Janus membranes with the incorporation of polyphenol/Fe <sup>3+</sup> complex for enhanced anti-oil fouling performance in membrane distillation. <i>Desalination</i> , <b>2021</b> , 515, 115184	10.3	9
228	Simulated solar light driven photothermal catalytic purification of toluene over iron oxide supported single atom Pt catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120612	21.8	7
227	Fouling is the beginning: upcycling biopolymer-fouled substrates for fabricating high-permeance thin-film composite polyamide membranes. <i>Green Chemistry</i> , <b>2021</b> , 23, 1013-1025	10	6
226	Surface Modulation and Chromium Complexation: All-in-One Solution for the Cr(VI) Sequestration with Bifunctional Molecules. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 8373-8379	10.3	19
225	Enhanced removal of pharmaceuticals and personal care products from real municipal wastewater using an electrochemical membrane bioreactor. <i>Bioresource Technology</i> , <b>2020</b> , 311, 123579	11	26
224	Dually Charged MOF-Based Thin-Film Nanocomposite Nanofiltration Membrane for Enhanced Removal of Charged Pharmaceutically Active Compounds. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 7619-7628	10.3	42
223	A ClO <sub>2</sub> -mediated photoelectrochemical filtration system for highly-efficient and complete ammonia conversion. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 400, 123246	12.8	16

222	Effect of the Presence of Carbon in TiO Electrodes on Anodic Oxidation of Contaminants. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 5227-5236	10.3	25
221	Calcium ions affect sludge digestion performance via changing extracellular polymeric substances in anaerobic bioreactor. <i>Biomass and Bioenergy</i> , <b>2020</b> , 137, 105548	5.3	7
220	Fabrication of High-Performance Thin-Film Composite Nanofiltration Membrane by Dynamic Calcium-Carboxyl Intra-Bridging during Post-Treatment. <i>Membranes</i> , <b>2020</b> , 10,	3.8	7
219	Constructing interlayer to tailor structure and performance of thin-film composite polyamide membranes: A review. <i>Advances in Colloid and Interface Science</i> , <b>2020</b> , 282, 102204	14.3	54
218	Mitigation of Membrane Fouling Using an Electroactive Polyether Sulfone Membrane. <i>Membranes</i> , <b>2020</b> , 10,	3.8	7
217	Rapid and selective electrochemical transformation of ammonia to N by substoichiometric TiO-based electrochemical system.. <i>RSC Advances</i> , <b>2020</b> , 10, 1219-1225	3.7	5
216	Highly active N, O-doped hierarchical porous carbons for high-energy supercapacitors. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 1226-1230	8.1	56
215	Probing toluene catalytic removal mechanism over supported Pt nano- and single-atom-catalyst. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 122258	12.8	36
214	Evaluating influence of filling fraction of carriers packed in anaerobic side-stream reactors on membrane fouling and microbial community of the coupled membrane bioreactors. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 388, 122030	12.8	15
213	Preferential removal of 2,4-dichlorophenoxyacetic acid from contaminated waters using an electrocatalytic ceramic membrane filtration system: Mechanisms and implications. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124132	14.7	17
212	A universal strategy to obtain highly redox-active porous carbons for efficient energy storage. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3717-3725	13	49
211	Ultra-fast detoxification of Sb(III) using a flow-through TiO <sub>2</sub> -nanotubes-array-mesh based photoelectrochemical system. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124155	14.7	16
210	Techniques for understanding mechanisms underlying membrane fouling <b>2020</b> , 81-102		1
209	Recent advances on electroactive CNT-based membranes for environmental applications: The perfect match of electrochemistry and membrane separation. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 2539-2548	8.1	44
208	Supported Atomically-Precise Gold Nanoclusters for Enhanced Flow-through Electro-Fenton. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 5913-5921	10.3	59
207	Size effect, mutual inhibition and oxidation mechanism of the catalytic removal of a toluene and acetone mixture over TiO <sub>2</sub> nanosheet-supported Pt nanocatalysts. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 274, 118963	21.8	44
206	Analysis of dissolved and colloidal substances in old corrugated containers—whitewater and dissolved substances—impact on colloidal substances—stability. <i>BioResources</i> , <b>2020</b> , 15, 6668-6679	1.3	1
205	Stimulatory effects on bacteria induced by chemical cleaning cause severe biofouling of membranes. <i>Journal of Water Reuse and Desalination</i> , <b>2020</b> , 10, 82-94	2.6	2

204	Repurposing hydrolysis acidification tank in municipal wastewater treatment plants for sludge reduction and biological nutrient removal. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125327	14.7	7
203	Coupling ammonia nitrogen adsorption and regeneration unit with a high-load anoxic/aerobic process to achieve rapid and efficient pollutants removal for wastewater treatment. <i>Water Research</i> , <b>2020</b> , 170, 115280	12.5	36
202	Simultaneous solid-liquid separation and wastewater disinfection using an electrochemical dynamic membrane filtration system. <i>Environmental Research</i> , <b>2020</b> , 180, 108861	7.9	4
201	Tunable-quaternary (N, S, O, P)-doped porous carbon microspheres with ultramicropores for CO <sub>2</sub> capture. <i>Applied Surface Science</i> , <b>2020</b> , 507, 145130	6.7	24
200	Ultra-rapid detoxification of Sb(III) using a flow-through electro-fenton system. <i>Chemosphere</i> , <b>2020</b> , 245, 125604	8.4	9
199	Microfiltration membranes modified by silver-decorated biomimetic silica nanopollens for mitigating biofouling: Synergetic effects of nanopollens and silver nanoparticles. <i>Journal of Membrane Science</i> , <b>2020</b> , 597, 117773	9.6	10
198	One-step phosphite removal by an electroactive CNT filter functionalized with TiO <sub>2</sub> /CeO <sub>2</sub> nanocomposites. <i>Science of the Total Environment</i> , <b>2020</b> , 710, 135514	10.2	6
197	One-step Sb(III) decontamination using a bifunctional photoelectrochemical filter. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 389, 121840	12.8	27
196	Effects of humic matter on the anaerobic digestion of sewage sludge: New insights from sludge structure. <i>Chemosphere</i> , <b>2020</b> , 243, 125421	8.4	13
195	Perspective on enhancing the anaerobic digestion of waste activated sludge. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 389, 121847	12.8	72
194	Rapid decontamination of tetracycline hydrolysis product using electrochemical CNT filter: Mechanism, impacting factors and pathways. <i>Chemosphere</i> , <b>2020</b> , 244, 125525	8.4	18
193	Modification of polyvinylidene fluoride membrane by quaternary ammonium compounds loaded on silica nanopollens for mitigating biofouling. <i>Journal of Membrane Science</i> , <b>2020</b> , 597, 117679	9.6	9
192	Fabrication of anti-algae coatings by using quaternary ammonium compounds for wastewater treatment facilities: Anti-algae performance and mechanisms. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 587, 124309	5.1	3
191	Understanding mechanisms of sludge in situ reduction in anaerobic side-stream reactor coupled membrane bioreactors packed with carriers at different filling fractions. <i>Bioresour. Technol.</i> , <b>2020</b> , 316, 123925	11	7
190	Management of concentrate and waste streams for membrane-based algal separation in water treatment: A review. <i>Water Research</i> , <b>2020</b> , 183, 115969	12.5	9
189	Development of an Electrochemical Ceramic Membrane Bioreactor for the Removal of PPCPs from Wastewater. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1838	3	4
188	Highly Efficient and Selective Hg(II) Removal from Water Using Multilayered TiCO MXene via Adsorption Coupled with Catalytic Reduction Mechanism. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 16212-16220	10.3	40
187	Mechanistic Insights into the Role of Polydopamine Interlayer toward Improved Separation Performance of Polyamide Nanofiltration Membranes. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 11611-11621	10.3	43

186	Recent advances in Cu-Fenton systems for the treatment of industrial wastewaters: Role of Cu complexes and Cu composites. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 122261	12.8	57
185	Metal-Organic Framework Nanosheets for Thin-Film Composite Membranes with Enhanced Permeability and Selectivity. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 9238-9248	5.6	18
184	In situ molten salt derived iron oxide supported platinum catalyst with high catalytic performance for o-xylene elimination. <i>Catalysis Today</i> , <b>2020</b> , 351, 30-36	5.3	8
183	Sulfate removal by Mg/Al layered double hydroxide precipitates: Mechanism, settleability, techno-economic analysis and recycling as demulsifier. <i>Journal of Cleaner Production</i> , <b>2020</b> , 242, 118503	10.3	4
182	Carbon nanotube filter functionalized with iron oxychloride for flow-through electro-Fenton. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 260, 118204	21.8	59
181	Biological nutrient removal in the anaerobic side-stream reactor coupled membrane bioreactors for sludge reduction. <i>Bioresource Technology</i> , <b>2020</b> , 295, 122241	11	10
180	Fabrication of core@shell structural Fe-FeO@PHCP nanochains with high saturation magnetization and abundant amino groups for hexavalent chromium adsorption and reduction. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121483	12.8	37
179	Role of GAC-MnO <sub>2</sub> catalyst for triggering the extracellular electron transfer and boosting CH <sub>4</sub> production in syntrophic methanogenesis. <i>Chemical Engineering Journal</i> , <b>2020</b> , 383, 123211	14.7	33
178	Enhancing rejection performance of tetracycline resistance genes by a TiO <sub>2</sub> /AgNPs-modified nanofiber forward osmosis membrane. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 123052	14.7	19
177	Improving the pore-ion size compatibility between poly(ionic liquid)-derived carbons and high-voltage electrolytes for high energy-power supercapacitors. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122945	14.7	56
176	Antibiofouling performance and mechanisms of a modified polyvinylidene fluoride membrane in an MBR for wastewater treatment: Role of silver@silica nanopollens. <i>Water Research</i> , <b>2020</b> , 176, 115749	12.5	15
175	Development of a moving-bed electrochemical membrane bioreactor to enhance removal of low-concentration antibiotic from wastewater. <i>Bioresource Technology</i> , <b>2019</b> , 293, 122022	11	33
174	Boosting Cr(VI) detoxification and sequestration efficiency with carbon nanotube electrochemical filter functionalized with nanoscale polyaniline: Performance and mechanism. <i>Science of the Total Environment</i> , <b>2019</b> , 695, 133926	10.2	20
173	Magnetic hollow poly(cyclotriphosphazene-co-4,4'-sulfonyldiphenol)-FeO hybrid nanocapsules for adsorbing Safranin T and catalytic oxidation of 3,3',5,5'-tetramethylbenzidine. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 556, 278-291	9.3	19
172	Synergistic design of a N, O co-doped honeycomb carbon electrode and an ionogel electrolyte enabling all-solid-state supercapacitors with an ultrahigh energy density. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 816-826	13	110
171	Ultrahigh energy density of a N, O codoped carbon nanosphere based all-solid-state symmetric supercapacitor. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1177-1186	13	140
170	Highly-efficient and selective adsorption of anionic dyes onto hollow polymer microcapsules having a high surface-density of amino groups: Isotherms, kinetics, thermodynamics and mechanism. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 542, 123-135	9.3	53
169	Backpulsing technology applied in MF and UF processes for membrane fouling mitigation: A review. <i>Journal of Membrane Science</i> , <b>2019</b> , 587, 117136	9.6	51

168	Simultaneous oxidation and sorption of highly toxic Sb(III) using a dual-functional electroactive filter. <i>Environmental Pollution</i> , <b>2019</b> , 251, 72-80	9.3	28
167	High-energy flexible solid-state supercapacitors based on O, N, S-tridoped carbon electrodes and a 3.5 V gel-type electrolyte. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 1216-1225	14.7	74
166	A chloride-radical-mediated electrochemical filtration system for rapid and effective transformation of ammonia to nitrogen. <i>Chemosphere</i> , <b>2019</b> , 229, 383-391	8.4	18
165	Supported ultralow loading Pt catalysts with high H <sub>2</sub> O-, CO <sub>2</sub> -, and SO <sub>2</sub> -resistance for acetone removal. <i>Applied Catalysis A: General</i> , <b>2019</b> , 579, 106-115	5.1	30
164	Thin-film nanocomposite membranes incorporated with water stable metal-organic framework CuBTTri for mitigating biofouling. <i>Journal of Membrane Science</i> , <b>2019</b> , 582, 289-297	9.6	35
163	Template-Free, Self-Doped Approach to Porous Carbon Spheres with High N/O Contents for High-Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 7024-7034	8.3	109
162	In situ extracting organic-bound calcium: A novel approach to mitigating organic fouling in forward osmosis treating wastewater via gradient diffusion thin-films. <i>Water Research</i> , <b>2019</b> , 156, 102-109	12.5	12
161	Large-scale fabrication of N-doped porous carbon nanosheets for dye adsorption and supercapacitor applications. <i>Nanoscale</i> , <b>2019</b> , 11, 8785-8797	7.7	54
160	Effects of packing carriers and ultrasonication on membrane fouling and sludge properties of anaerobic side-stream reactor coupled membrane reactors for sludge reduction. <i>Journal of Membrane Science</i> , <b>2019</b> , 581, 312-320	9.6	29
159	Characterization of antibiofouling behaviors of PVDF membrane modified by quaternary ammonium compound combined use of QCM-D, FCM, and CLSM. <i>Journal of Water Reuse and Desalination</i> , <b>2019</b> , 9, 18-30	2.6	6
158	Identifying microbial community evolution in membrane bioreactors coupled with anaerobic side-stream reactor, packing carriers and ultrasonication for sludge reduction by linear discriminant analysis. <i>Bioresource Technology</i> , <b>2019</b> , 291, 121920	11	18
157	Deep-eutectic-solvent synthesis of N/O self-doped hollow carbon nanorods for efficient energy storage. <i>Chemical Communications</i> , <b>2019</b> , 55, 11219-11222	5.8	82
156	Study on enhancing sludge methanogenesis by adding acetylene black and effect on the characteristics & microbial community of anaerobic granular sludge.. <i>RSC Advances</i> , <b>2019</b> , 9, 23086-23093	3.7	14
155	Hydrophilic Selective Nanochannels Created by Metal Organic Frameworks in Nanofiltration Membranes Enhance Rejection of Hydrophobic Endocrine-Disrupting Compounds. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 13776-13783	10.3	51
154	Magnetic poly(cyclotriphosphazene-co-4,4'-sulfonyldiphenol) nanotubes modified with glacial acetic acid for removing methylene blue: Adsorption performance and mechanism. <i>European Polymer Journal</i> , <b>2019</b> , 120, 109198	5.2	14
153	Use of Extracellular Polymer Substance as an Additive to Improve Biogas Yield and Digestion Performance. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 12628-12636	4.1	6
152	Environmentally friendly room temperature synthesis of hierarchical porous Ni(OH) <sub>2</sub> nanosheets for supercapacitor and catalysis applications. <i>Green Chemistry</i> , <b>2019</b> , 21, 5960-5968	10	20
151	CFD simulations of fiber-fiber interaction in a hollow fiber membrane bundle: Fiber distance and position matters. <i>Separation and Purification Technology</i> , <b>2019</b> , 209, 707-713	8.3	16



150	Electroactive Modified Carbon Nanotube Filter for Simultaneous Detoxification and Sequestration of Sb(III). <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 1527-1535	10.3	78
149	Performance and microbial protein expression during anaerobic treatment of alkali-decrement wastewater using a strengthened circulation anaerobic reactor. <i>Bioresource Technology</i> , <b>2019</b> , 273, 40-48 <sup>1</sup>	11	3
148	Surface modification of polyvinylidene fluoride membrane by atom-transfer radical-polymerization of quaternary ammonium compound for mitigating biofouling. <i>Journal of Membrane Science</i> , <b>2019</b> , 570-571, 286-293	9.6	43
147	Removal of p-chloroaniline from polluted waters using a cathodic electrochemical ceramic membrane reactor. <i>Separation and Purification Technology</i> , <b>2019</b> , 211, 753-763	8.3	16
146	Antifouling performance and mechanisms in an electrochemical ceramic membrane reactor for wastewater treatment. <i>Journal of Membrane Science</i> , <b>2019</b> , 570-571, 355-361	9.6	30
145	Dynamically vulcanized PP/EPDM blends with balanced stiffness and toughness via in-situ compatibilization of MAA and excess ZnO nanoparticles: Preparation, structure and properties. <i>Composites Part B: Engineering</i> , <b>2019</b> , 160, 147-157	10	52
144	Porous metal organic framework CuBDC nanosheet incorporated thin-film nanocomposite membrane for high-performance forward osmosis. <i>Journal of Membrane Science</i> , <b>2019</b> , 573, 46-54	9.6	66
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142	Bifunctional nanoscale magnetic chains with high saturation magnetization and catalytic activity. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 525, 152-160	9.3	5
141	N, S Co-doped hierarchical porous carbon rods derived from protic salt: Facile synthesis for high energy density supercapacitors. <i>Electrochimica Acta</i> , <b>2018</b> , 274, 378-388	6.7	94
140	Impacts of quaternary ammonium compounds on membrane bioreactor performance: Acute and chronic responses of microorganisms. <i>Water Research</i> , <b>2018</b> , 134, 153-161	12.5	26
139	Modification of microfiltration membranes by alkoxysilane polycondensation induced quaternary ammonium compounds grafting for biofouling mitigation. <i>Journal of Membrane Science</i> , <b>2018</b> , 549, 165-172	9.6	51
138	Reinvestigation of membrane cleaning mechanisms using NaOCl: Role of reagent diffusion. <i>Journal of Membrane Science</i> , <b>2018</b> , 550, 278-285	9.6	21
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10	COD fractionation and parameter estimation for combined sewers by respirometric tests. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2008</b> , 83, 1596-1601	3.5	9
9	Research and applications of membrane bioreactors in China: Progress and prospect. <i>Separation and Purification Technology</i> , <b>2008</b> , 62, 249-263	8.3	102
8	Effects of various factors on critical flux in submerged membrane bioreactors for municipal wastewater treatment. <i>Separation and Purification Technology</i> , <b>2008</b> , 62, 56-63	8.3	59
7	Application of flat-sheet membrane to thickening and digestion of waste activated sludge (WAS). <i>Journal of Hazardous Materials</i> , <b>2008</b> , 154, 535-42	12.8	33



6	Study on zeolite enhanced contact-adsorption regeneration-stabilization process for nitrogen removal. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 156, 317-26	12.8	40
5	Membrane fouling in a submerged membrane bioreactor (MBR) under sub-critical flux operation: Membrane foulant and gel layer characterization. <i>Journal of Membrane Science</i> , <b>2008</b> , 325, 238-244	9.6	279
4	Sludge rheological and physiological characteristics in a pilot-scale submerged membrane bioreactor. <i>Desalination</i> , <b>2007</b> , 212, 152-164	10.3	65
3	Relationship between sludge characteristics and membrane flux determination in submerged membrane bioreactors. <i>Journal of Membrane Science</i> , <b>2006</b> , 284, 87-94	9.6	109
2	Mechanisms of phosphorus removal from wastewater by ion exchange resin79, 347-355		4
1	Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse. <i>Environmental Science and Technology Letters</i> ,	11	4