Zhiwei Wang

List of Publications by Year
in descending order

287	15,222	12330	29157
papers	citations	69 h-index	104 g-index

293	293	293	10676
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tuning the primary selective nanochannels of MOF thin-film nanocomposite nanofiltration membranes for efficient removal of hydrophobic endocrine disrupting compounds. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	6.0	29
2	Pdâ€“O2 interaction and singlet oxygen formation in a novel reactive electrochemical membrane for ultrafast sulfamethoxazole oxidation. Chemical Engineering Journal, 2022, 428, 131194.	12.7	32
3	Evaluating of the performance of natural mineral vermiculite modified PVDF membrane for oil/water separation by membrane fouling model and XDLVO theory. Journal of Membrane Science, 2022, 641, 119886.	8.2	31
4	Study on the mechanism of inhibiting the calcification of anaerobic granular sludge induced by the addition of trace signal molecule (3O-C6-HSL). Bioresource Technology, 2022, 344, 126232.	9.6	15
5	Recent advances in membrane biofilm reactor for micropollutants removal: Fundamentals, performance and microbial communities. Bioresource Technology, 2022, 343, 126139.	9.6	20
6	Tuning of nanofiltration membrane by multifunctionalized nanovesicles to enable an ultrahigh dye/salt separation at high salinity. Journal of Membrane Science, 2022, 644, 120094.	8.2	28
7	Heteroatom-doped porous carbon nanoparticle-decorated carbon cloth (HPCN/CC) as efficient anode electrode for microbial fuel cells (MFCs). Journal of Cleaner Production, 2022, 336, 130374.	9.3	44
8	Recent advances in nature-inspired antifouling membranes for water purification. Chemical Engineering Journal, 2022, 432, 134425.	12.7	36
9	Effective factors for the performance of a co-generation system for bioethanol and electricity production via microbial fuel cell technology. Biochemical Engineering Journal, 2022, 178, 108309.	3.6	6
10	Sludge Derived Carbon Modified Anode in Microbial Fuel Cell for Performance Improvement and Microbial Community Dynamics. Membranes, 2022, 12, 120.	3.0	10
11	Electrocoagulation pretreatment reduced the synergistic inhibition of anaerobic granular sludge by micro stickies and Ca2+ and delayed the calcification of granular sludge. Industrial Crops and Products, 2022, 178, 114584.	5.2	3
12	Omniphobic membrane via bioinspired silicification for the treatment of RO concentrate by membrane distillation. Journal of Membrane Science, 2022, 647, 120267.	8.2	23
13	Metal-organic framework enables ultraselective polyamide membrane for desalination and water reuse. Science Advances, 2022, 8, eabm4149.	10.3	87
14	Emerging Challenges and Opportunities for Electrified Membranes to Enhance Water Treatment. Environmental Science & Technology, 2022, 56, 3832-3835.	10.0	16
15	Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse. Environmental Science and Technology Letters, 2022, 9, 247-257.	8.7	42
16	Artificial intelligence-incorporated membrane fouling prediction for membrane-based processes in the past 20 years: A critical review. Water Research, 2022, 216, 118299.	11.3	78
17	Zr6O8-porphyrinic MOFs as promising catalysts for the boosting photocatalytic degradation of contaminants in high salinity wastewater. Chemical Engineering Journal, 2022, 440, 135883.	12.7	33
18	Effective and Selective Removal of Phosphate from Wastewater Using Guanidinium-Functionalized Polyelectrolyte-Modified Electrodes in Capacitive Deionization. ACS ES&T Water, 2022, 2, 237-246.	4.6	15

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19	Electrochemical membrane materials and modules. , 2022, , 81-110.		1
20	Introduction to electrochemical membrane technology: current status and recent developments. , 2022, , 1-42.		0
21	Effects of different N-acyl-serine lactone signaling molecules on the performance of anaerobic granular sludge. RSC Advances, 2022, 12, 5439-5446.	3.6	6
22	Recent advances in electrocatalytic membrane for the removal of micropollutants from water and wastewater. IScience, 2022, 25, 104342.	4.1	27
23	Mechanistic insights into CO2 pressure regulating microbial competition in a hydrogen-based membrane biofilm reactor for denitrification. Chemosphere, 2022, 303, 134875.	8.2	5
24	Modification of ultrafiltration membrane with antibacterial agent intercalated layered nanosheets: Toward superior antibiofouling performance for water treatment. Water Research, 2022, 219, 118539.	11.3	21
25	Biofouling suppresses effluent toxicity in an electrochemical filtration system for remediation of sulfanilic acid-contaminated water. Water Research, 2022, 219, 118545.	11.3	7
26	Direct Electron Transfer Coordinated by Oxygen Vacancies Boosts Selective Nitrate Reduction to N₂ on a Coâ€“CuO_x Electroactive Filter. Environmental Science & Technology, 2022, 56, 8673-8681.	10.0	39
27	Efficient removal of micropollutants from low-conductance surface water using an electrochemical Janus ceramic membrane filtration system. Water Research, 2022, 220, 118627.	11.3	26
28	Intentional Fouling Enabled In Situ Healing of Compromised Reverse Osmosis Membranes for Desalination and Water Purification. ACS ES&T Engineering, 2022, 2, 1964-1973.	7.6	0
29	Humic Acid Modified Selective Nanofiltration Membrane for Efficient Separation of PFASs and Mineral Salts. ACS ES&T Water, 2022, 2, 1152-1160.	4.6	5
30	Highly Selective Recovery of Phosphorus from Wastewater via Capacitive Deionization Enabled by Ferrocene-polyaniline-Functionalized Carbon Nanotube Electrodes. ACS Applied Materials & Interfaces, 2022, 14, 31962-31972.	8.0	24
31	Efficient treatment of landfill leachate using an electrochemical ceramic membrane filtration system: Chlorine-mediated oxidation. Chemical Engineering Journal, 2022, 450, 138102.	12.7	1
32	An electrochemical membrane biofilm reactor for removing sulfonamides from wastewater and suppressing antibiotic resistance development: Performance and mechanisms. Journal of Hazardous Materials, 2021, 404, 124198.	12.4	27
33	Effects of graphene derivatives on polyvinylidene fluoride membrane modification evaluated with XDLVO theory and quartz crystal microbalance with dissipation. Water Environment Research, 2021, 93, 360-369.	2.7	2
34	In situ growth of nano-ZnO/GQDs on cellulose paper for dual repelling function against water and bacteria. Materials Letters, 2021, 283, 128838.	2.6	12
35	Integration of a Photo-Fenton Reaction and a Membrane Filtration using CS/PAN@FeOOH/g-C3N4Electrospun Nanofibers: Synthesis, Characterization, Self-cleaning Performance and Mechanism. Applied Catalysis B: Environmental, 2021, 281, 119519.	20.2	99
36	Effect of support nature on catalytic activity of the bimetallic RuCo nanoparticles for the oxidative removal of 1,2-dichloroethane. Applied Catalysis B: Environmental, 2021, 285, 119804.	20.2	35

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37	Self-Enhanced Decomplexation of Cu-Organic Complexes and Cu Recovery from Wastewaters Using an Electrochemical Membrane Filtration System. Environmental Science & Technology, 2021, 55, 655-664.	10.0	67
38	Mechanistic insights into chemical conditioning by polyacrylamide with different charge densities and its impacts on sludge dewaterability. Chemical Engineering Journal, 2021, 410, 128425.	12.7	27
39	Highly Active and Stable Palladium Catalysts on Novel Ceriaâ€“Alumina Supports for Efficient Oxidation of Carbon Monoxide and Hydrocarbons. Environmental Science & Technology, 2021, 55, 7624-7633.	10.0	28
40	Enhanced removal of hydrophobic endocrine disrupting compounds from wastewater by nanofiltration membranes intercalated with hydrophilic MoS2 nanosheets: Role of surface properties and internal nanochannels. Journal of Membrane Science, 2021, 628, 119267.	8.2	49
41	Development of a Mechanically Flexible 2D-MXene Membrane Cathode for Selective Electrochemical Reduction of Nitrate to N₂: Mechanisms and Implications. Environmental Science & Technology, 2021, 55, 10695-10703.	10.0	68
42	Aramid Nanofiber Membranes Reinforced by MXene Nanosheets for Recovery of Dyes from Textile Wastewater. ACS Applied Nano Materials, 2021, 4, 6328-6336.	5.0	29
43	An anaerobic dynamic membrane bioreactor for enhancing sludge digestion: Impact of solids retention time on digestion efficacy. Bioresource Technology, 2021, 329, 124864.	9.6	27
44	Efficacy of electrochemical membrane bioreactor for virus removal from wastewater: Performance and mechanisms. Bioresource Technology, 2021, 330, 124946.	9.6	21
45	State-of-the-art management technologies of dissolved methane in anaerobically-treated low-strength wastewaters: A review. Water Research, 2021, 200, 117269.	11.3	16
46	Cleaningâ€“Healingâ€“Interfacial Polymerization Strategy for Upcycling Real End-of-Life Polyvinylidene Fluoride Microfiltration Membranes. ACS Sustainable Chemistry and Engineering, 2021, 9, 10352-10360.	6.7	15
47	Support promotion effect on the SO2 and K+ co-poisoning resistance of MnO2/TiO2 for NH3-SCR of NO. Journal of Hazardous Materials, 2021, 416, 126117.	12.4	53
48	Desalination: From Ancient to Present and Future. Water (Switzerland), 2021, 13, 2222.	2.7	31
49	Facile synthesis of cobalt Disulfide/Carbon nanotube composite as High-performance supercapacitors electrode. Journal of Electroanalytical Chemistry, 2021, 897, 115570.	3.8	4
50	Efficacy of a novel electrochemical membrane-aerated biofilm reactor for removal of antibiotics from micro-polluted surface water and suppression of antibiotic resistance genes. Bioresource Technology, 2021, 338, 125527.	9.6	26
51	Advances in metal(loid) oxyanion removal by zerovalent iron: Kinetics, pathways, and mechanisms. Chemosphere, 2021, 280, 130766.	8.2	37
52	Evaluation of nutrient removal performance and resource recovery potential of anaerobic/anoxic/aerobic membrane bioreactor with limited aeration. Bioresource Technology, 2021, 340, 125728.	9.6	12
53	Robust dual-layer Janus membranes with the incorporation of polyphenol/Fe3+ complex for enhanced anti-oil fouling performance in membrane distillation. Desalination, 2021, 515, 115184.	8.2	28
54	Simulated solar light driven photothermal catalytic purification of toluene over iron oxide supported single atom Pt catalyst. Applied Catalysis B: Environmental, 2021, 298, 120612.	20.2	54

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55	Fouling is the beginning: upcycling biopolymer-fouled substrates for fabricating high-permeance thin-film composite polyamide membranes. Green Chemistry, 2021, 23, 1013-1025.	9.0	18
56	Fluorescent N-functionalized carbon nanodots from carboxymethylcellulose for sensing of high-valence metal ions and cell imaging. RSC Advances, 2021, 11, 34898-34907.	3.6	1
57	In situ molten salt derived iron oxide supported platinum catalyst with high catalytic performance for o-xylene elimination. Catalysis Today, 2020, 351, 30-36.	4.4	15
58	Sulfate removal by Mgâ€“Al layered double hydroxide precipitates: Mechanism, settleability, techno-economic analysis and recycling as demulsifier. Journal of Cleaner Production, 2020, 242, 118503.	9.3	9
59	Carbon nanotube filter functionalized with iron oxychloride for flow-through electro-Fenton. Applied Catalysis B: Environmental, 2020, 260, 118204.	20.2	117
60	Biological nutrient removal in the anaerobic side-stream reactor coupled membrane bioreactors for sludge reduction. Bioresource Technology, 2020, 295, 122241.	9.6	23
61	Fabrication of core@shell structural Fe-Fe2O3@PHCP nanochains with high saturation magnetization and abundant amino groups for hexavalent chromium adsorption and reduction. Journal of Hazardous Materials, 2020, 384, 121483.	12.4	77
62	Role of GAC-MnO2 catalyst for triggering the extracellular electron transfer and boosting CH4 production in syntrophic methanogenesis. Chemical Engineering Journal, 2020, 383, 123211.	12.7	72
63	Enhancing rejection performance of tetracycline resistance genes by a TiO2/AgNPs-modified nanofiber forward osmosis membrane. Chemical Engineering Journal, 2020, 382, 123052.	12.7	40
64	Improving the pore-ion size compatibility between poly(ionic liquid)-derived carbons and high-voltage electrolytes for high energy-power supercapacitors. Chemical Engineering Journal, 2020, 382, 122945.	12.7	81
65	Coupling ammonia nitrogen adsorption and regeneration unit with a high-load anoxic/aerobic process to achieve rapid and efficient pollutants removal for wastewater treatment. Water Research, 2020, 170, 115280.	11.3	66
66	Simultaneous solid-liquid separation and wastewater disinfection using an electrochemical dynamic membrane filtration system. Environmental Research, 2020, 180, 108861.	7.5	10
67	Tunable-quaternary (N, S, O, P)-doped porous carbon microspheres with ultramicropores for CO2 capture. Applied Surface Science, 2020, 507, 145130.	6.1	57
68	Ultra-rapid detoxification of Sb(III) using a flow-through electro-fenton system. Chemosphere, 2020, 245, 125604.	8.2	21
69	Microfiltration membranes modified by silver-decorated biomimetic silica nanopollens for mitigating biofouling: Synergetic effects of nanopollens and silver nanoparticles. Journal of Membrane Science, 2020, 597, 117773.	8.2	19
70	One-step phosphite removal by an electroactive CNT filter functionalized with TiO2/CeOx nanocomposites. Science of the Total Environment, 2020, 710, 135514.	8.0	17
71	One-step Sb(III) decontamination using a bifunctional photoelectrochemical filter. Journal of Hazardous Materials, 2020, 389, 121840.	12.4	37
72	Effects of humic matter on the anaerobic digestion of sewage sludge: New insights from sludge structure. Chemosphere, 2020, 243, 125421.	8.2	38

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73	Perspective on enhancing the anaerobic digestion of waste activated sludge. Journal of Hazardous Materials, 2020, 389, 121847.	12.4	160
74	Rapid decontamination of tetracycline hydrolysis product using electrochemical CNT filter: Mechanism, impacting factors and pathways. Chemosphere, 2020, 244, 125525.	8.2	40
75	Modification of polyvinylidene fluoride membrane by quaternary ammonium compounds loaded on silica nanopollens for mitigating biofouling. Journal of Membrane Science, 2020, 597, 117679.	8.2	12
76	Fabrication of anti-algae coatings by using quaternary ammonium compounds for wastewater treatment facilities: Anti-algae performance and mechanisms. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 587, 124309.	4.7	3
77	Understanding mechanisms of sludge in situ reduction in anaerobic side-stream reactor coupled membrane bioreactors packed with carriers at different filling fractions. Bioresource Technology, 2020, 316, 123925.	9.6	16
78	Management of concentrate and waste streams for membrane-based algal separation in water treatment: A review. Water Research, 2020, 183, 115969.	11.3	20
79	Development of an Electrochemical Ceramic Membrane Bioreactor for the Removal of PPCPs from Wastewater. Water (Switzerland), 2020, 12, 1838.	2.7	11
80	Highly Efficient and Selective Hg(II) Removal from Water Using Multilayered Ti₃C₂O_x MXene via Adsorption Coupled with Catalytic Reduction Mechanism. Environmental Science & Technology, 2020, 54, 16212-16220.	10.0	92
81	Mechanistic Insights into the Role of Polydopamine Interlayer toward Improved Separation Performance of Polyamide Nanofiltration Membranes. Environmental Science & Technology, 2020, 54, 11611-11621.	10.0	137
82	Recent advances in Cu-Fenton systems for the treatment of industrial wastewaters: Role of Cu complexes and Cu composites. Journal of Hazardous Materials, 2020, 392, 122261.	12.4	126
83	Metalâ€“Organic Framework Nanosheets for Thin-Film Composite Membranes with Enhanced Permeability and Selectivity. ACS Applied Nano Materials, 2020, 3, 9238-9248.	5.0	57
84	Surface Modulation and Chromium Complexation: All-in-One Solution for the Cr(VI) Sequestration with Bifunctional Molecules. Environmental Science & Technology, 2020, 54, 8373-8379.	10.0	38
85	Enhanced removal of pharmaceuticals and personal care products from real municipal wastewater using an electrochemical membrane bioreactor. Bioresource Technology, 2020, 311, 123579.	9.6	55
86	Dually Charged MOF-Based Thin-Film Nanocomposite Nanofiltration Membrane for Enhanced Removal of Charged Pharmaceutically Active Compounds. Environmental Science & Technology, 2020, 54, 7619-7628.	10.0	95
87	A ClO -mediated photoelectrochemical filtration system for highly-efficient and complete ammonia conversion. Journal of Hazardous Materials, 2020, 400, 123246.	12.4	51
88	Effect of the Presence of Carbon in Ti₄O₇ Electrodes on Anodic Oxidation of Contaminants. Environmental Science & Technology, 2020, 54, 5227-5236.	10.0	58
89	Calcium ions affect sludge digestion performance via changing extracellular polymeric substances in anaerobic bioreactor. Biomass and Bioenergy, 2020, 137, 105548.	5.7	20
90	Fabrication of High-Performance Thin-Film Composite Nanofiltration Membrane by Dynamic Calcium-Carboxyl Intra-Bridging during Post-Treatment. Membranes, 2020, 10, 137.	3.0	13

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91	Constructing interlayer to tailor structure and performance of thin-film composite polyamide membranes: A review. Advances in Colloid and Interface Science, 2020, 282, 102204.	14.7	154
92	Mitigation of Membrane Fouling Using an Electroactive Polyether Sulfone Membrane. Membranes, 2020, 10, 21.	3.0	10
93	Rapid and selective electrochemical transformation of ammonia to N₂ by substoichiometric TiO₂-based electrochemical system. RSC Advances, 2020, 10, 1219-1225.	3.6	12
94	Highly active N, O-doped hierarchical porous carbons for high-energy supercapacitors. Chinese Chemical Letters, 2020, 31, 1226-1230.	9.0	78
95	Probing toluene catalytic removal mechanism over supported Pt nano- and single-atom-catalyst. Journal of Hazardous Materials, 2020, 392, 122258.	12.4	85
96	Evaluating influence of filling fraction of carriers packed in anaerobic side-stream reactors on membrane fouling and microbial community of the coupled membrane bioreactors. Journal of Hazardous Materials, 2020, 388, 122030.	12.4	22
97	Preferential removal of 2,4-dichlorophenoxyacetic acid from contaminated waters using an electrocatalytic ceramic membrane filtration system: Mechanisms and implications. Chemical Engineering Journal, 2020, 387, 124132.	12.7	38
98	A universal strategy to obtain highly redox-active porous carbons for efficient energy storage. Journal of Materials Chemistry A, 2020, 8, 3717-3725.	10.3	79
99	Ultra-fast detoxification of Sb(III) using a flow-through TiO2-nanotubes-array-mesh based photoelectrochemical system. Chemical Engineering Journal, 2020, 387, 124155.	12.7	25
100	Techniques for understanding mechanisms underlying membrane fouling. , 2020, , 81-102.		1
101	Recent advances on electroactive CNT-based membranes for environmental applications: The perfect match of electrochemistry and membrane separation. Chinese Chemical Letters, 2020, 31, 2539-2548.	9.0	103
102	Supported Atomically-Precise Gold Nanoclusters for Enhanced Flow-through Electro-Fenton. Environmental Science & Technology, 2020, 54, 5913-5921.	10.0	113
103	Size effect, mutual inhibition and oxidation mechanism of the catalytic removal of a toluene and acetone mixture over TiO2 nanosheet-supported Pt nanocatalysts. Applied Catalysis B: Environmental, 2020, 274, 118963.	20.2	125
104	Antibiofouling performance and mechanisms of a modified polyvinylidene fluoride membrane in an MBR for wastewater treatment: Role of silver@silica nanopollens. Water Research, 2020, 176, 115749.	11.3	33
105	Repurposing hydrolysis acidification tank in municipal wastewater treatment plants for sludge reduction and biological nutrient removal. Chemical Engineering Journal, 2020, 396, 125327.	12.7	19
106	Stimulatory effects on bacteria induced by chemical cleaning cause severe biofouling of membranes. Journal of Water Reuse and Desalination, 2020, 10, 82-94.	2.3	3
107	Analysis of dissolved and colloidal substances in old corrugated containersâ€™ whitewater and dissolved substancesâ€™ impact on colloidal substancesâ€™ stability. BioResources, 2020, 15, 6668-6679.	1.0	1
108	Characterization of antibiofouling behaviors of PVDF membrane modified by quaternary ammonium compound â€“ combined use of QCM-D, FCM, and CLSM. Journal of Water Reuse and Desalination, 2019, 9, 18-30.	2.3	9

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109	Identifying microbial community evolution in membrane bioreactors coupled with anaerobic side-stream reactor, packing carriers and ultrasonication for sludge reduction by linear discriminant analysis. Bioresource Technology, 2019, 291, 121920.	9.6	35
110	Deep-eutectic-solvent synthesis of N/O self-doped hollow carbon nanorods for efficient energy storage. Chemical Communications, 2019, 55, 11219-11222.	4.1	101
111	Study on enhancing sludge methanogenesis by adding acetylene black and effect on the characteristics & microbial community of anaerobic granular sludge. RSC Advances, 2019, 9, 23086-23095.	3.6	24
112	Hydrophilic Selective Nanochannels Created by Metal Organic Frameworks in Nanofiltration Membranes Enhance Rejection of Hydrophobic Endocrine-Disrupting Compounds. Environmental Science & Technology, 2019, 53, 13776-13783.	10.0	111
113	Magnetic poly(cyclotriphosphazene-co-4,4â€²-sulfonyldiphenol) nanotubes modified with glacial acetic acid for removing methylene blue: Adsorption performance and mechanism. European Polymer Journal, 2019, 120, 109198.	5.4	21
114	Development of a moving-bed electrochemical membrane bioreactor to enhance removal of low-concentration antibiotic from wastewater. Bioresource Technology, 2019, 293, 122022.	9.6	53
115	Boosting Cr(VI) detoxification and sequestration efficiency with carbon nanotube electrochemical filter functionalized with nanoscale polyaniline: Performance and mechanism. Science of the Total Environment, 2019, 695, 133926.	8.0	32
116	Magnetic hollow poly(cyclotriphosphazene-co-4,4â€²-sulfonyldiphenol)-Fe3O4 hybrid nanocapsules for adsorbing Safranine T and catalytic oxidation of 3,3â€²,5,5â€²-tetramethylbenzidine. Journal of Colloid and Interface Science, 2019, 556, 278-291.	9.4	28
117	Synergistic design of aÂN, O co-doped honeycomb carbon electrode and an ionogel electrolyte enabling all-solid-state supercapacitors with an ultrahigh energy density. Journal of Materials Chemistry A, 2019, 7, 816-826.	10.3	134
118	Ultrahigh energy density of aÂN, O codoped carbon nanosphere based all-solid-state symmetric supercapacitor. Journal of Materials Chemistry A, 2019, 7, 1177-1186.	10.3	188
119	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. Journal of Colloid and Interface Science, 2019, 542, 123-135.	9.4	88
120	Backpulsing technology applied in MF and UF processes for membrane fouling mitigation: A review. Journal of Membrane Science, 2019, 587, 117136.	8.2	88
121	Simultaneous oxidation and sorption of highly toxic Sb(III) using a dual-functional electroactive filter. Environmental Pollution, 2019, 251, 72-80.	7.5	38
122	High-energy flexible solid-state supercapacitors based on O, N, S-tridoped carbon electrodes and a 3.5â€¯V gel-type electrolyte. Chemical Engineering Journal, 2019, 372, 1216-1225.	12.7	103
123	A chloride-radical-mediated electrochemical filtration system for rapid and effective transformation of ammonia to nitrogen. Chemosphere, 2019, 229, 383-391.	8.2	55
124	Supported ultralow loading Pt catalysts with high H2O-, CO2-, and SO2-resistance for acetone removal. Applied Catalysis A: General, 2019, 579, 106-115.	4.3	65
125	Thin-film nanocomposite membranes incorporated with water stable metal-organic framework CuBTTri for mitigating biofouling. Journal of Membrane Science, 2019, 582, 289-297.	8.2	58
126	Template-Free, Self-Doped Approach to Porous Carbon Spheres with High N/O Contents for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 7024-7034.	6.7	147

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127	In situ extracting organic-bound calcium: A novel approach to mitigating organic fouling in forward osmosis treating wastewater via gradient diffusion thin-films. Water Research, 2019, 156, 102-109.	11.3	18
128	Large-scale fabrication of N-doped porous carbon nanosheets for dye adsorption and supercapacitor applications. Nanoscale, 2019, 11, 8785-8797.	5.6	75
129	Effects of packing carriers and ultrasonication on membrane fouling and sludge properties of anaerobic side-stream reactor coupled membrane reactors for sludge reduction. Journal of Membrane Science, 2019, 581, 312-320.	8.2	49
130	Use of Extracellular Polymer Substance as an Additive to Improve Biogas Yield and Digestion Performance. Energy & Fuels, 2019, 33, 12628-12636.	5.1	23
131	Environmentally friendly room temperature synthesis of hierarchical porous Î±-Ni(OH)₂ nanosheets for supercapacitor and catalysis applications. Green Chemistry, 2019, 21, 5960-5968.	9.0	34
132	A Dual-Functional Electroactive Filter Towards Simultaneously Sb(III) Oxidation and Sequestration. Journal of Visualized Experiments, 2019, , .	0.3	0
133	CFD simulations of fiber-fiber interaction in a hollow fiber membrane bundle: Fiber distance and position matters. Separation and Purification Technology, 2019, 209, 707-713.	7.9	25
134	Electroactive Modified Carbon Nanotube Filter for Simultaneous Detoxification and Sequestration of Sb(III). Environmental Science & Technology, 2019, 53, 1527-1535.	10.0	111
135	Performance and microbial protein expression during anaerobic treatment of alkali-decrement wastewater using a strengthened circulation anaerobic reactor. Bioresource Technology, 2019, 273, 40-48.	9.6	3
136	Surface modification of polyvinylidene fluoride membrane by atom-transfer radical-polymerization of quaternary ammonium compound for mitigating biofouling. Journal of Membrane Science, 2019, 570-571, 286-293.	8.2	70
137	Removal of p-chloroaniline from polluted waters using a cathodic electrochemical ceramic membrane reactor. Separation and Purification Technology, 2019, 211, 753-763.	7.9	33
138	Antifouling performance and mechanisms in an electrochemical ceramic membrane reactor for wastewater treatment. Journal of Membrane Science, 2019, 570-571, 355-361.	8.2	47
139	Dynamically vulcanized PP/EPDM blends with balanced stiffness and toughness via in-situ compatibilization of MAA and excess ZnO nanoparticles: Preparation, structure and properties. Composites Part B: Engineering, 2019, 160, 147-157.	12.0	74
140	Porous metal organic framework CuBDC nanosheet incorporated thin-film nanocomposite membrane for high-performance forward osmosis. Journal of Membrane Science, 2019, 573, 46-54.	8.2	97
141	Cooking carbon with protic salt: Nitrogen and sulfur self-doped porous carbon nanosheets for supercapacitors. Chemical Engineering Journal, 2018, 347, 233-242.	12.7	160
142	Bifunctional nanoscale magnetic chains with high saturation magnetization and catalytic activity. Journal of Colloid and Interface Science, 2018, 525, 152-160.	9.4	10
143	N, S Co-doped hierarchical porous carbon rods derived from protic salt: Facile synthesis for high energy density supercapacitors. Electrochimica Acta, 2018, 274, 378-388.	5.2	105
144	Impacts of quaternary ammonium compounds on membrane bioreactor performance: Acute and chronic responses of microorganisms. Water Research, 2018, 134, 153-161.	11.3	43

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145	Modification of microfiltration membranes by alkoxysilane polycondensation induced quaternary ammonium compounds grafting for biofouling mitigation. Journal of Membrane Science, 2018, 549, 165-172.	8.2	64
146	Reinvestigation of membrane cleaning mechanisms using NaOCl: Role of reagent diffusion. Journal of Membrane Science, 2018, 550, 278-285.	8.2	30
147	Degradation of sulfadiazine in drinking water by a cathodic electrochemical membrane filtration process. Electrochimica Acta, 2018, 277, 77-87.	5.2	57
148	Hydrophilic/underwater superoleophobic graphene oxide membrane intercalated by TiO2 nanotubes for oil/water separation. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	6.0	44
149	Development of an Electrochemical Ceramic Membrane Filtration System for Efficient Contaminant Removal from Waters. Environmental Science & Technology, 2018, 52, 4117-4126.	10.0	110
150	Membrane Fouling Mechanisms: Membrane Characteristics and Mixed Liquor Properties. Environmental Engineering Science, 2018, 35, 751-759.	1.6	4
151	A pilot-scale anaerobic membrane bioreactor under short hydraulic retention time for municipal wastewater treatment: performance and microbial community identification. Journal of Water Reuse and Desalination, 2018, 8, 58-67.	2.3	46
152	3DOM LaMnAl11O19-supported AuPd alloy nanoparticles: Highly active catalysts for methane combustion in a continuous-flow microreactor. Catalysis Today, 2018, 308, 71-80.	4.4	13
153	Microbial responses to transient shock loads of quaternary ammonium compounds with different length of alkyl chain in a membrane bioreactor. AMB Express, 2018, 8, 118.	3.0	10
154	Uniqueness of biofouling in forward osmosis systems: Mechanisms and control. Critical Reviews in Environmental Science and Technology, 2018, 48, 1031-1066.	12.8	9
155	Degradation of p-chloroaniline using an electrochemical ceramic microfiltration membrane with built-in electrodes. Electrochimica Acta, 2018, 292, 655-666.	5.2	21
156	Effective Removal of Sulfanilic Acid From Water Using a Low-Pressure Electrochemical RuO2-TiO2@Ti/PVDF Composite Membrane. Frontiers in Chemistry, 2018, 6, 395.	3.6	12
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