

Zhiwei Wang

List of Publications by Year in descending order

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Version: 2024-02-01

287
papers

15,222
citations

12322

69
h-index

29127

104
g-index

293
all docs

293
docs citations

293
times ranked

10676
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. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1. | 3.3 | 29 |
| 2 | Pd ²⁺ -O ₂ interaction and singlet oxygen formation in a novel reactive electrochemical membrane for ultrafast sulfamethoxazole oxidation. <i>Chemical Engineering Journal</i> , 2022, 428, 131194. | 6.6 | 32 |
| 3 | 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> , 2022, 641, 119886. | 4.1 | 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). <i>Bioresource Technology</i> , 2022, 344, 126232. | 4.8 | 15 |
| 5 | Recent advances in membrane biofilm reactor for micropollutants removal: Fundamentals, performance and microbial communities. <i>Bioresource Technology</i> , 2022, 343, 126139. | 4.8 | 20 |
| 6 | Tuning of nanofiltration membrane by multifunctionalized nanovesicles to enable an ultrahigh dye/salt separation at high salinity. <i>Journal of Membrane Science</i> , 2022, 644, 120094. | 4.1 | 28 |
| 7 | 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> , 2022, 336, 130374. | 4.6 | 44 |
| 8 | Recent advances in nature-inspired antifouling membranes for water purification. <i>Chemical Engineering Journal</i> , 2022, 432, 134425. | 6.6 | 36 |
| 9 | 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> , 2022, 178, 108309. | 1.8 | 6 |
| 10 | Sludge Derived Carbon Modified Anode in Microbial Fuel Cell for Performance Improvement and Microbial Community Dynamics. <i>Membranes</i> , 2022, 12, 120. | 1.4 | 10 |
| 11 | Electrocoagulation pretreatment reduced the synergistic inhibition of anaerobic granular sludge by micro stickies and Ca ²⁺ and delayed the calcification of granular sludge. <i>Industrial Crops and Products</i> , 2022, 178, 114584. | 2.5 | 3 |
| 12 | Omniphobic membrane via bioinspired silicification for the treatment of RO concentrate by membrane distillation. <i>Journal of Membrane Science</i> , 2022, 647, 120267. | 4.1 | 23 |
| 13 | Metal-organic framework enables ultrasensitive polyamide membrane for desalination and water reuse. <i>Science Advances</i> , 2022, 8, eabm4149. | 4.7 | 87 |
| 14 | Emerging Challenges and Opportunities for Electrified Membranes to Enhance Water Treatment. <i>Environmental Science & Technology</i> , 2022, 56, 3832-3835. | 4.6 | 16 |
| 15 | Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse. <i>Environmental Science and Technology Letters</i> , 2022, 9, 247-257. | 3.9 | 42 |
| 16 | Artificial intelligence-incorporated membrane fouling prediction for membrane-based processes in the past 20 years: A critical review. <i>Water Research</i> , 2022, 216, 118299. | 5.3 | 78 |
| 17 | Zr ₆ O ₈ -porphyrinic MOFs as promising catalysts for the boosting photocatalytic degradation of contaminants in high salinity wastewater. <i>Chemical Engineering Journal</i> , 2022, 440, 135883. | 6.6 | 33 |
| 18 | Effective and Selective Removal of Phosphate from Wastewater Using Guanidinium-Functionalized Polyelectrolyte-Modified Electrodes in Capacitive Deionization. <i>ACS ES&T Water</i> , 2022, 2, 237-246. | 2.3 | 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 <i>N</i> -acyl-serine lactone signaling molecules on the performance of anaerobic granular sludge. RSC Advances, 2022, 12, 5439-5446. | 1.7 | 6 |
| 22 | Recent advances in electrocatalytic membrane for the removal of micropollutants from water and wastewater. IScience, 2022, 25, 104342. | 1.9 | 27 |
| 23 | Mechanistic insights into CO ₂ pressure regulating microbial competition in a hydrogen-based membrane biofilm reactor for denitrification. Chemosphere, 2022, 303, 134875. | 4.2 | 5 |
| 24 | Modification of ultrafiltration membrane with antibacterial agent intercalated layered nanosheets: Toward superior antibiofouling performance for water treatment. Water Research, 2022, 219, 118539. | 5.3 | 21 |
| 25 | Biofouling suppresses effluent toxicity in an electrochemical filtration system for remediation of sulfanilic acid-contaminated water. Water Research, 2022, 219, 118545. | 5.3 | 7 |
| 26 | Direct Electron Transfer Coordinated by Oxygen Vacancies Boosts Selective Nitrate Reduction to N ₂ on a Co ²⁺ /CuO _x Electroactive Filter. Environmental Science & Technology, 2022, 56, 8673-8681. | 4.6 | 39 |
| 27 | Efficient removal of micropollutants from low-conductance surface water using an electrochemical Janus ceramic membrane filtration system. Water Research, 2022, 220, 118627. | 5.3 | 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. | 3.7 | 0 |
| 29 | Humic Acid Modified Selective Nanofiltration Membrane for Efficient Separation of PFASs and Mineral Salts. ACS ES&T Water, 2022, 2, 1152-1160. | 2.3 | 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. | 4.0 | 24 |
| 31 | Efficient treatment of landfill leachate using an electrochemical ceramic membrane filtration system: Chlorine-mediated oxidation. Chemical Engineering Journal, 2022, 450, 138102. | 6.6 | 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. | 6.5 | 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. | 1.3 | 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. | 1.3 | 12 |
| 35 | Integration of a Photo-Fenton Reaction and a Membrane Filtration using CS/PAN@FeOOH/g-C ₃ N ₄ Electrospun Nanofibers: Synthesis, Characterization, Self-cleaning Performance and Mechanism. Applied Catalysis B: Environmental, 2021, 281, 119519. | 10.8 | 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. | 10.8 | 35 |

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|----|---|------|-----------|
| 37 | Self-Enhanced Decomplexation of Cu-Organic Complexes and Cu Recovery from Wastewaters Using an Electrochemical Membrane Filtration System. <i>Environmental Science & Technology</i> , 2021, 55, 655-664. | 4.6 | 67 |
| 38 | Mechanistic insights into chemical conditioning by polyacrylamide with different charge densities and its impacts on sludge dewaterability. <i>Chemical Engineering Journal</i> , 2021, 410, 128425. | 6.6 | 27 |
| 39 | Highly Active and Stable Palladium Catalysts on Novel Ceria-Alumina Supports for Efficient Oxidation of Carbon Monoxide and Hydrocarbons. <i>Environmental Science & Technology</i> , 2021, 55, 7624-7633. | 4.6 | 28 |
| 40 | Enhanced removal of hydrophobic endocrine disrupting compounds from wastewater by nanofiltration membranes intercalated with hydrophilic MoS ₂ nanosheets: Role of surface properties and internal nanochannels. <i>Journal of Membrane Science</i> , 2021, 628, 119267. | 4.1 | 49 |
| 41 | Development of a Mechanically Flexible 2D-MXene Membrane Cathode for Selective Electrochemical Reduction of Nitrate to N ₂ : Mechanisms and Implications. <i>Environmental Science & Technology</i> , 2021, 55, 10695-10703. | 4.6 | 68 |
| 42 | Aramid Nanofiber Membranes Reinforced by MXene Nanosheets for Recovery of Dyes from Textile Wastewater. <i>ACS Applied Nano Materials</i> , 2021, 4, 6328-6336. | 2.4 | 29 |
| 43 | An anaerobic dynamic membrane bioreactor for enhancing sludge digestion: Impact of solids retention time on digestion efficacy. <i>Bioresource Technology</i> , 2021, 329, 124864. | 4.8 | 27 |
| 44 | Efficacy of electrochemical membrane bioreactor for virus removal from wastewater: Performance and mechanisms. <i>Bioresource Technology</i> , 2021, 330, 124946. | 4.8 | 21 |
| 45 | State-of-the-art management technologies of dissolved methane in anaerobically-treated low-strength wastewaters: A review. <i>Water Research</i> , 2021, 200, 117269. | 5.3 | 16 |
| 46 | Cleaning-Healing Interfacial Polymerization Strategy for Upcycling Real End-of-Life Polyvinylidene Fluoride Microfiltration Membranes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10352-10360. | 3.2 | 15 |
| 47 | Support promotion effect on the SO ₂ and K ⁺ co-poisoning resistance of MnO ₂ /TiO ₂ for NH ₃ -SCR of NO. <i>Journal of Hazardous Materials</i> , 2021, 416, 126117. | 6.5 | 53 |
| 48 | Desalination: From Ancient to Present and Future. <i>Water (Switzerland)</i> , 2021, 13, 2222. | 1.2 | 31 |
| 49 | Facile synthesis of cobalt Disulfide/Carbon nanotube composite as High-performance supercapacitors electrode. <i>Journal of Electroanalytical Chemistry</i> , 2021, 897, 115570. | 1.9 | 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. <i>Bioresource Technology</i> , 2021, 338, 125527. | 4.8 | 26 |
| 51 | Advances in metal(loid) oxyanion removal by zerovalent iron: Kinetics, pathways, and mechanisms. <i>Chemosphere</i> , 2021, 280, 130766. | 4.2 | 37 |
| 52 | Evaluation of nutrient removal performance and resource recovery potential of anaerobic/anoxic/aerobic membrane bioreactor with limited aeration. <i>Bioresource Technology</i> , 2021, 340, 125728. | 4.8 | 12 |
| 53 | Robust dual-layer Janus membranes with the incorporation of polyphenol/Fe ³⁺ complex for enhanced anti-oil fouling performance in membrane distillation. <i>Desalination</i> , 2021, 515, 115184. | 4.0 | 28 |
| 54 | Simulated solar light driven photothermal catalytic purification of toluene over iron oxide supported single atom Pt catalyst. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120612. | 10.8 | 54 |

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|----|---|------|-----------|
| 55 | Fouling is the beginning: upcycling biopolymer-fouled substrates for fabricating high-permeance thin-film composite polyamide membranes. <i>Green Chemistry</i> , 2021, 23, 1013-1025. | 4.6 | 18 |
| 56 | Fluorescent N-functionalized carbon nanodots from carboxymethylcellulose for sensing of high-valence metal ions and cell imaging. <i>RSC Advances</i> , 2021, 11, 34898-34907. | 1.7 | 1 |
| 57 | In situ molten salt derived iron oxide supported platinum catalyst with high catalytic performance for o-xylene elimination. <i>Catalysis Today</i> , 2020, 351, 30-36. | 2.2 | 15 |
| 58 | Sulfate removal by Mg-Al layered double hydroxide precipitates: Mechanism, settleability, techno-economic analysis and recycling as demulsifier. <i>Journal of Cleaner Production</i> , 2020, 242, 118503. | 4.6 | 9 |
| 59 | Carbon nanotube filter functionalized with iron oxychloride for flow-through electro-Fenton. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118204. | 10.8 | 117 |
| 60 | Biological nutrient removal in the anaerobic side-stream reactor coupled membrane bioreactors for sludge reduction. <i>Bioresource Technology</i> , 2020, 295, 122241. | 4.8 | 23 |
| 61 | Fabrication of core@shell structural Fe-Fe ₂ O ₃ @PHCP nanochains with high saturation magnetization and abundant amino groups for hexavalent chromium adsorption and reduction. <i>Journal of Hazardous Materials</i> , 2020, 384, 121483. | 6.5 | 77 |
| 62 | Role of GAC-MnO ₂ catalyst for triggering the extracellular electron transfer and boosting CH ₄ production in syntrophic methanogenesis. <i>Chemical Engineering Journal</i> , 2020, 383, 123211. | 6.6 | 72 |
| 63 | Enhancing rejection performance of tetracycline resistance genes by a TiO ₂ /AgNPs-modified nanofiber forward osmosis membrane. <i>Chemical Engineering Journal</i> , 2020, 382, 123052. | 6.6 | 40 |
| 64 | 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> , 2020, 382, 122945. | 6.6 | 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. <i>Water Research</i> , 2020, 170, 115280. | 5.3 | 66 |
| 66 | Simultaneous solid-liquid separation and wastewater disinfection using an electrochemical dynamic membrane filtration system. <i>Environmental Research</i> , 2020, 180, 108861. | 3.7 | 10 |
| 67 | Tunable-quaternary (N, S, O, P)-doped porous carbon microspheres with ultramicropores for CO ₂ capture. <i>Applied Surface Science</i> , 2020, 507, 145130. | 3.1 | 57 |
| 68 | Ultra-rapid detoxification of Sb(III) using a flow-through electro-fenton system. <i>Chemosphere</i> , 2020, 245, 125604. | 4.2 | 21 |
| 69 | 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> , 2020, 597, 117773. | 4.1 | 19 |
| 70 | One-step phosphite removal by an electroactive CNT filter functionalized with TiO ₂ /CeO _x nanocomposites. <i>Science of the Total Environment</i> , 2020, 710, 135514. | 3.9 | 17 |
| 71 | One-step Sb(III) decontamination using a bifunctional photoelectrochemical filter. <i>Journal of Hazardous Materials</i> , 2020, 389, 121840. | 6.5 | 37 |
| 72 | Effects of humic matter on the anaerobic digestion of sewage sludge: New insights from sludge structure. <i>Chemosphere</i> , 2020, 243, 125421. | 4.2 | 38 |

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|----|---|-----|-----------|
| 73 | Perspective on enhancing the anaerobic digestion of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2020, 389, 121847. | 6.5 | 160 |
| 74 | Rapid decontamination of tetracycline hydrolysis product using electrochemical CNT filter: Mechanism, impacting factors and pathways. <i>Chemosphere</i> , 2020, 244, 125525. | 4.2 | 40 |
| 75 | Modification of polyvinylidene fluoride membrane by quaternary ammonium compounds loaded on silica nanopollens for mitigating biofouling. <i>Journal of Membrane Science</i> , 2020, 597, 117679. | 4.1 | 12 |
| 76 | 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> , 2020, 587, 124309. | 2.3 | 3 |
| 77 | Understanding mechanisms of sludge in situ reduction in anaerobic side-stream reactor coupled membrane bioreactors packed with carriers at different filling fractions. <i>Bioresource Technology</i> , 2020, 316, 123925. | 4.8 | 16 |
| 78 | Management of concentrate and waste streams for membrane-based algal separation in water treatment: A review. <i>Water Research</i> , 2020, 183, 115969. | 5.3 | 20 |
| 79 | Development of an Electrochemical Ceramic Membrane Bioreactor for the Removal of PPCPs from Wastewater. <i>Water (Switzerland)</i> , 2020, 12, 1838. | 1.2 | 11 |
| 80 | Highly Efficient and Selective Hg(II) Removal from Water Using Multilayered $\text{Ti}_3\text{C}_2\text{O}_x$ MXene via Adsorption Coupled with Catalytic Reduction Mechanism. <i>Environmental Science & Technology</i> , 2020, 54, 16212-16220. | 4.6 | 92 |
| 81 | Mechanistic Insights into the Role of Polydopamine Interlayer toward Improved Separation Performance of Polyamide Nanofiltration Membranes. <i>Environmental Science & Technology</i> , 2020, 54, 11611-11621. | 4.6 | 137 |
| 82 | 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> , 2020, 392, 122261. | 6.5 | 126 |
| 83 | Metal-Organic Framework Nanosheets for Thin-Film Composite Membranes with Enhanced Permeability and Selectivity. <i>ACS Applied Nano Materials</i> , 2020, 3, 9238-9248. | 2.4 | 57 |
| 84 | Surface Modulation and Chromium Complexation: All-in-One Solution for the Cr(VI) Sequestration with Bifunctional Molecules. <i>Environmental Science & Technology</i> , 2020, 54, 8373-8379. | 4.6 | 38 |
| 85 | Enhanced removal of pharmaceuticals and personal care products from real municipal wastewater using an electrochemical membrane bioreactor. <i>Bioresource Technology</i> , 2020, 311, 123579. | 4.8 | 55 |
| 86 | Dually Charged MOF-Based Thin-Film Nanocomposite Nanofiltration Membrane for Enhanced Removal of Charged Pharmaceutically Active Compounds. <i>Environmental Science & Technology</i> , 2020, 54, 7619-7628. | 4.6 | 95 |
| 87 | A ClO ₂ -mediated photoelectrochemical filtration system for highly-efficient and complete ammonia conversion. <i>Journal of Hazardous Materials</i> , 2020, 400, 123246. | 6.5 | 51 |
| 88 | Effect of the Presence of Carbon in Ti_4O_7 Electrodes on Anodic Oxidation of Contaminants. <i>Environmental Science & Technology</i> , 2020, 54, 5227-5236. | 4.6 | 58 |
| 89 | Calcium ions affect sludge digestion performance via changing extracellular polymeric substances in anaerobic bioreactor. <i>Biomass and Bioenergy</i> , 2020, 137, 105548. | 2.9 | 20 |
| 90 | Fabrication of High-Performance Thin-Film Composite Nanofiltration Membrane by Dynamic Calcium-Carboxyl Intra-Bridging during Post-Treatment. <i>Membranes</i> , 2020, 10, 137. | 1.4 | 13 |

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|-----|---|------|-----------|
| 91 | Constructing interlayer to tailor structure and performance of thin-film composite polyamide membranes: A review. <i>Advances in Colloid and Interface Science</i> , 2020, 282, 102204. | 7.0 | 154 |
| 92 | Mitigation of Membrane Fouling Using an Electroactive Polyether Sulfone Membrane. <i>Membranes</i> , 2020, 10, 21. | 1.4 | 10 |
| 93 | Rapid and selective electrochemical transformation of ammonia to N_2 by substoichiometric TiO_2 -based electrochemical system. <i>RSC Advances</i> , 2020, 10, 1219-1225. | 1.7 | 12 |
| 94 | Highly active N, O-doped hierarchical porous carbons for high-energy supercapacitors. <i>Chinese Chemical Letters</i> , 2020, 31, 1226-1230. | 4.8 | 78 |
| 95 | Probing toluene catalytic removal mechanism over supported Pt nano- and single-atom-catalyst. <i>Journal of Hazardous Materials</i> , 2020, 392, 122258. | 6.5 | 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. <i>Journal of Hazardous Materials</i> , 2020, 388, 122030. | 6.5 | 22 |
| 97 | 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> , 2020, 387, 124132. | 6.6 | 38 |
| 98 | A universal strategy to obtain highly redox-active porous carbons for efficient energy storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3717-3725. | 5.2 | 79 |
| 99 | Ultra-fast detoxification of Sb(III) using a flow-through TiO_2 -nanotubes-array-mesh based photoelectrochemical system. <i>Chemical Engineering Journal</i> , 2020, 387, 124155. | 6.6 | 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. <i>Chinese Chemical Letters</i> , 2020, 31, 2539-2548. | 4.8 | 103 |
| 102 | Supported Atomically-Precise Gold Nanoclusters for Enhanced Flow-through Electro-Fenton. <i>Environmental Science & Technology</i> , 2020, 54, 5913-5921. | 4.6 | 113 |
| 103 | Size effect, mutual inhibition and oxidation mechanism of the catalytic removal of a toluene and acetone mixture over TiO_2 nanosheet-supported Pt nanocatalysts. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 118963. | 10.8 | 125 |
| 104 | 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> , 2020, 176, 115749. | 5.3 | 33 |
| 105 | Repurposing hydrolysis acidification tank in municipal wastewater treatment plants for sludge reduction and biological nutrient removal. <i>Chemical Engineering Journal</i> , 2020, 396, 125327. | 6.6 | 19 |
| 106 | Stimulatory effects on bacteria induced by chemical cleaning cause severe biofouling of membranes. <i>Journal of Water Reuse and Desalination</i> , 2020, 10, 82-94. | 1.2 | 3 |
| 107 | Analysis of dissolved and colloidal substances in old corrugated containers'™ whitewater and dissolved substances'™ impact on colloidal substances'™ stability. <i>BioResources</i> , 2020, 15, 6668-6679. | 0.5 | 1 |
| 108 | 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> , 2019, 9, 18-30. | 1.2 | 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. <i>Bioresource Technology</i> , 2019, 291, 121920. | 4.8 | 35 |
| 110 | Deep-eutectic-solvent synthesis of N/O self-doped hollow carbon nanorods for efficient energy storage. <i>Chemical Communications</i> , 2019, 55, 11219-11222. | 2.2 | 101 |
| 111 | Study on enhancing sludge methanogenesis by adding acetylene black and effect on the characteristics & microbial community of anaerobic granular sludge. <i>RSC Advances</i> , 2019, 9, 23086-23095. | 1.7 | 24 |
| 112 | Hydrophilic Selective Nanochannels Created by Metal Organic Frameworks in Nanofiltration Membranes Enhance Rejection of Hydrophobic Endocrine-Disrupting Compounds. <i>Environmental Science & Technology</i> , 2019, 53, 13776-13783. | 4.6 | 111 |
| 113 | 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> , 2019, 120, 109198. | 2.6 | 21 |
| 114 | Development of a moving-bed electrochemical membrane bioreactor to enhance removal of low-concentration antibiotic from wastewater. <i>Bioresource Technology</i> , 2019, 293, 122022. | 4.8 | 53 |
| 115 | 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> , 2019, 695, 133926. | 3.9 | 32 |
| 116 | Magnetic hollow poly(cyclotriphosphazene-co-4,4'-sulfonyldiphenol)-Fe ₃ O ₄ hybrid nanocapsules for adsorbing Safranin T and catalytic oxidation of 3,3',5,5'-tetramethylbenzidine. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 278-291. | 5.0 | 28 |
| 117 | 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> , 2019, 7, 816-826. | 5.2 | 134 |
| 118 | Ultrahigh energy density of a N, O codoped carbon nanosphere based all-solid-state symmetric supercapacitor. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1177-1186. | 5.2 | 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. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 123-135. | 5.0 | 88 |
| 120 | Backpulsing technology applied in MF and UF processes for membrane fouling mitigation: A review. <i>Journal of Membrane Science</i> , 2019, 587, 117136. | 4.1 | 88 |
| 121 | Simultaneous oxidation and sorption of highly toxic Sb(III) using a dual-functional electroactive filter. <i>Environmental Pollution</i> , 2019, 251, 72-80. | 3.7 | 38 |
| 122 | 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> , 2019, 372, 1216-1225. | 6.6 | 103 |
| 123 | A chloride-radical-mediated electrochemical filtration system for rapid and effective transformation of ammonia to nitrogen. <i>Chemosphere</i> , 2019, 229, 383-391. | 4.2 | 55 |
| 124 | Supported ultralow loading Pt catalysts with high H ₂ O-, CO ₂ -, and SO ₂ -resistance for acetone removal. <i>Applied Catalysis A: General</i> , 2019, 579, 106-115. | 2.2 | 65 |
| 125 | Thin-film nanocomposite membranes incorporated with water stable metal-organic framework CuBTTri for mitigating biofouling. <i>Journal of Membrane Science</i> , 2019, 582, 289-297. | 4.1 | 58 |
| 126 | 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> , 2019, 7, 7024-7034. | 3.2 | 147 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | 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> , 2019, 156, 102-109. | 5.3 | 18 |
| 128 | Large-scale fabrication of N-doped porous carbon nanosheets for dye adsorption and supercapacitor applications. <i>Nanoscale</i> , 2019, 11, 8785-8797. | 2.8 | 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. <i>Journal of Membrane Science</i> , 2019, 581, 312-320. | 4.1 | 49 |
| 130 | Use of Extracellular Polymer Substance as an Additive to Improve Biogas Yield and Digestion Performance. <i>Energy & Fuels</i> , 2019, 33, 12628-12636. | 2.5 | 23 |
| 131 | Environmentally friendly room temperature synthesis of hierarchical porous $\text{Ni}(\text{OH})_2$ nanosheets for supercapacitor and catalysis applications. <i>Green Chemistry</i> , 2019, 21, 5960-5968. | 4.6 | 34 |
| 132 | A Dual-Functional Electroactive Filter Towards Simultaneously Sb(III) Oxidation and Sequestration. <i>Journal of Visualized Experiments</i> , 2019, , . | 0.2 | 0 |
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