

# Xinfei Fan

## List of Publications by Year in descending order

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71  
papers

4,648  
citations

94433

37  
h-index

98798

67  
g-index

75  
all docs

75  
docs citations

75  
times ranked

6012  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Insights into the impact of polydopamine modification on permeability and anti-fouling performance of forward osmosis membrane. <i>Chemosphere</i> , 2022, 291, 132744.   | 8.2  | 10        |
| 2  | Preparation and performance of polyaniline modified coal-based carbon membrane for electrochemical filtration treatment of organic wastewater. <i>Separation and Purification Technology</i> , 2022, 287, 120600.   | 7.9  | 18        |
| 3  | Silver nanoparticles@polydopamine@wax gourd: An antimicrobial solar evaporator with enhanced steam generation. <i>International Journal of Energy Research</i> , 2022, 46, 8949-8961.   | 4.5  | 23        |
| 4  | Preparation and application of high-performance and acid-tolerant TiO <sub>2</sub> /carbon electrocatalytic membrane for organic wastewater treatment. <i>Chemosphere</i> , 2022, 296, 134017.  | 8.2  | 12        |
| 5  | Promoting electrochemical reduction of CO <sub>2</sub> to ethanol by B/N-doped sp <sup>3</sup> /sp <sup>2</sup> nanocarbon electrode. <i>Chinese Chemical Letters</i> , 2022, 33, 4691-4694.  | 9.0  | 12        |
| 6  | Insight into the effects of Cu <sup>2+</sup> ions and CuO species in Cu-SSZ-13 catalysts for selective catalytic reduction of NO by NH <sub>3</sub> . <i>Journal of Colloid and Interface Science</i> , 2022, 622, 1-10.  | 9.4  | 24        |
| 7  | Heteroatoms-doped biochar derived from deciduous resource as persulfate catalysts for efficient degradation of phenol. <i>Journal of Water Process Engineering</i> , 2022, 48, 102866.  | 5.6  | 10        |
| 8  | Multi-physics modelling and simulation approach with experimental validation for electrocatalytic filtration process: Part A. Optimization of electrodeposition of metal oxides on carbon membranes. <i>Journal of Electroanalytical Chemistry</i> , 2022, 920, 116564. | 3.8  | 5         |
| 9  | High performance polypyrrole coated carbon-based electrocatalytic membrane for organic contaminants removal from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 283-295.  | 9.4  | 9         |
| 10 | High-performance desalination of high-salinity reverse osmosis brine by direct contact membrane distillation using superhydrophobic membranes. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49768.  | 2.6  | 5         |
| 11 | Morphology-controlled synthesis of ZnSnO <sub>3</sub> hollow spheres and their n-butanol gas-sensing performance. <i>Ceramics International</i> , 2021, 47, 2471-2482.  | 4.8  | 39        |
| 12 | Carbon-based membrane materials and applications in water and wastewater treatment: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1457-1475.   | 16.2 | 55        |
| 13 | In-situ silica nanoparticle assembly technique to develop an omniphobic membrane for durable membrane distillation. <i>Desalination</i> , 2021, 499, 114832.  | 8.2  | 53        |
| 14 | A simple, flexible, and porous polypyrrole@wax gourd evaporator with excellent light absorption for efficient solar steam generation. <i>International Journal of Energy Research</i> , 2021, 45, 21476-21486.  | 4.5  | 14        |
| 15 | A self-floating, salt-resistant 3D Janus radish-based evaporator for highly efficient solar desalination. <i>Desalination</i> , 2021, 510, 115093.  | 8.2  | 67        |
| 16 | Enhanced organic wastewater treatment performance in electrochemical filtration process of coal-based carbon membrane via the simple Fe <sup>2+</sup> addition. <i>Separation and Purification Technology</i> , 2021, 276, 119418.                                      | 7.9  | 9         |
| 17 | Facile fabrication of low-cost starch-based biohydrogel evaporator for efficient solar steam generation. <i>Desalination</i> , 2021, 517, 115260.   | 8.2  | 38        |
| 18 | Novel strategy to enhance the desalination performance of flow-electrode capacitive deionization process via the assistance of electro-catalytic water splitting. <i>Separation and Purification Technology</i> , 2021, 279, 119753.                                    | 7.9  | 6         |

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|----|--|------|-----------|
| 19 | Improved separation performance of carbon nanotube hollow fiber membrane by peroxydisulfate activation. Separation and Purification Technology, 2021, 276, 119328.   | 7.9  | 17        |
| 20 | Facile morphology-controlled synthesis of ZnO electrocatalysts on coal-based carbon membrane for antibiotics wastewater treatment. Journal of Membrane Science, 2021, 639, 119734.   | 8.2  | 13        |
| 21 | Conductive CNT/nanofiber composite hollow fiber membranes with electrospun support layer for water purification. Journal of Membrane Science, 2020, 596, 117613.   | 8.2  | 35        |
| 22 | Enhanced Permeability and Removal Efficiency for Phenol and Perfluorooctane Sulphonate by a Multifunctional CNT/Al <sub>2</sub> O <sub>3</sub> Membrane with Electrochemical Assistance. Journal of Nanoscience and Nanotechnology, 2020, 20, 5951-5958. | 0.9  | 3         |
| 23 | Preparation and characterization of high-performance electrospun forward osmosis membrane by introducing a carbon nanotube interlayer. Journal of Membrane Science, 2020, 616, 118563.   | 8.2  | 45        |
| 24 | Silver nanowire-carbon nanotube/coal-based carbon composite membrane with fascinating antimicrobial ability and antibiofouling under electrochemical assistance. Journal of Water Process Engineering, 2020, 38, 101617.                                 | 5.6  | 7         |
| 25 | Electrospun reduced graphene oxide/polyacrylonitrile membrane for high-performance solar evaporation. Solar Energy, 2020, 209, 325-333.  | 6.1  | 54        |
| 26 | Low cost, facile, environmentally friendly all biomass-based squid ink-starch hydrogel for efficient solar-steam generation. Journal of Materials Chemistry A, 2020, 8, 24108-24116.   | 10.3 | 55        |
| 27 | High-performance electrocatalytic microfiltration CuO/Carbon membrane by facile dynamic electrodeposition for small-sized organic pollutants removal. Journal of Membrane Science, 2020, 601, 117913.  | 8.2  | 43        |
| 28 | Developments of Carbon-Based Membrane Materials for Water Treatment. Environmental Chemistry for A Sustainable World, 2020, , 121-175.   | 0.5  | 1         |
| 29 | Efficient Technique for Simultaneous Lead Recovery and PbO <sub>2</sub> /Ti Electrode Preparation for Electrocatalytic Degradation of Basic Red. Journal of Nanoscience and Nanotechnology, 2020, 20, 5874-5884.   | 0.9  | 3         |
| 30 | A novel reduced graphene oxide/carbon nanotube hollow fiber membrane with high forward osmosis performance. Desalination, 2019, 451, 117-124.  | 8.2  | 44        |
| 31 | Electro-responsive carbon membranes with reversible superhydrophobicity/superhydrophilicity switch for efficient oil/water separation. Separation and Purification Technology, 2019, 210, 891-899.   | 7.9  | 77        |
| 32 | Degradation of phenol by coal-based carbon membrane integrating sulfate radicals-based advanced oxidation processes. Ecotoxicology and Environmental Safety, 2019, 185, 109662.  | 6.0  | 28        |
| 33 | A pH-responsive PAA-grafted-CNT intercalated RGO membrane with steady separation efficiency for charged contaminants over a wide pH range. Separation and Purification Technology, 2019, 215, 422-429.   | 7.9  | 25        |
| 34 | Carbon nanotubes-incorporated MIL-88B-Fe as highly efficient Fenton-like catalyst for degradation of organic pollutants. Frontiers of Environmental Science and Engineering, 2019, 13, 1.  | 6.0  | 49        |
| 35 | Comparison of CNT-PVA membrane and commercial polymeric membranes in treatment of emulsified oily wastewater. Frontiers of Environmental Science and Engineering, 2019, 13, 1.   | 6.0  | 23        |
| 36 | Enhanced Perfluorooctanoic Acid Degradation by Electrochemical Activation of Sulfate Solution on B/N Codoped Diamond. Environmental Science & Technology, 2019, 53, 5195-5201.   | 10.0 | 91        |

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|----|--|------|-----------|
| 37 | Improvement of Antifouling and Antimicrobial Abilities on Silver-Carbon Nanotube Based Membranes under Electrochemical Assistance. <i>Environmental Science &amp; Technology</i> , 2019, 53, 5292-5300.  | 10.0 | 45        |
| 38 | Preparation of a novel double-skinned forward osmosis membrane by reserve draw solute in support layer. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 2124-2131.  | 2.4  | 1         |
| 39 | Electrochemical reduction of $N_2$ to ammonia on Co single atom embedded N-doped porous carbon under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26358-26363.   | 10.3 | 51        |
| 40 | Steering $CO_2$ electroreduction toward ethanol production by a surface-bound Ru polypyridyl carbene catalyst on N-doped porous carbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26353-26358.         | 7.1  | 55        |
| 41 | Improving Ion Rejection of Conductive Nanofiltration Membrane through Electrically Enhanced Surface Charge Density. <i>Environmental Science &amp; Technology</i> , 2019, 53, 868-877.   | 10.0 | 83        |
| 42 | Combined Effects of Surface Charge and Pore Size on Co-Enhanced Permeability and Ion Selectivity through RGO-OCNT Nanofiltration Membranes. <i>Environmental Science &amp; Technology</i> , 2018, 52, 4827-4834.   | 10.0 | 79        |
| 43 | Enhanced separation performance of carbon nanotube-polyvinyl alcohol composite membranes for emulsified oily wastewater treatment under electrical assistance. <i>Separation and Purification Technology</i> , 2018, 197, 107-115.                               | 7.9  | 50        |
| 44 | Facile Ammonia Synthesis from Electrocatalytic $N_2$ Reduction under Ambient Conditions on N-Doped Porous Carbon. <i>ACS Catalysis</i> , 2018, 8, 1186-1191.   | 11.2 | 520       |
| 45 | Highly Permeable Thin-Film Composite Forward Osmosis Membrane Based on Carbon Nanotube Hollow Fiber Scaffold with Electrically Enhanced Fouling Resistance. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1444-1452.                                 | 10.0 | 56        |
| 46 | A multifunctional graphene-based nanofiltration membrane under photo-assistance for enhanced water treatment based on layer-by-layer sieving. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 204-213.  | 20.2 | 80        |
| 47 | Carbon-nanotube-based sandwich-like hollow fiber membranes for expanded microcystin-LR removal applications. <i>Chemical Engineering Journal</i> , 2017, 319, 212-218.   | 12.7 | 25        |
| 48 | Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-Codoped Nanodiamond. <i>Angewandte Chemie</i> , 2017, 129, 15813-15817.  | 2.0  | 196       |
| 49 | Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-Codoped Nanodiamond. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15607-15611.   | 13.8 | 226       |
| 50 | Innentitelbild: Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-Codoped Nanodiamond ( <i>Angew. Chem.</i> 49/2017). <i>Angewandte Chemie</i> , 2017, 129, 15678-15678.   | 2.0  | 1         |
| 51 | Integration of membrane filtration and photoelectrocatalysis on g-C <sub>3</sub> N <sub>4</sub> /CNTs/Al <sub>2</sub> O <sub>3</sub> membrane with visible-light response for enhanced water treatment. <i>Journal of Membrane Science</i> , 2017, 541, 153-161. | 8.2  | 105       |
| 52 | A controlled wet-spinning and dip-coating process for preparation of high-permeable TiO <sub>2</sub> hollow fiber membranes. <i>Water Science and Technology</i> , 2016, 73, 725-733.  | 2.5  | 2         |
| 53 | High desalination permeability, wetting and fouling resistance on superhydrophobic carbon nanotube hollow fiber membrane under self-powered electrochemical assistance. <i>Journal of Membrane Science</i> , 2016, 514, 501-509.                                 | 8.2  | 64        |
| 54 | Fabrication of TiO <sub>2</sub> nanofiber membranes by a simple dip-coating technique for water treatment. <i>Surface and Coatings Technology</i> , 2016, 298, 45-52.  | 4.8  | 43        |

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|----|--|------|-----------|
| 55 | Fabrication of Au/CNT hollow fiber membrane for 4-nitrophenol reduction. RSC Advances, 2016, 6, 41114-41121.   | 3.6  | 33        |
| 56 | Nanocarbon-based membrane filtration integrated with electric field driving for effective membrane fouling mitigation. Water Research, 2016, 88, 285-292.  | 11.3 | 89        |
| 57 | Enhanced Permeability, Selectivity, and Antifouling Ability of CNTs/Al <sub>2</sub> O <sub>3</sub> Membrane under Electrochemical Assistance. Environmental Science & Technology, 2015, 49, 2293-2300.   | 10.0 | 128       |
| 58 | Adsorption of ciprofloxacin, bisphenol and 2-chlorophenol on electrospun carbon nanofibers: In comparison with powder activated carbon. Journal of Colloid and Interface Science, 2015, 447, 120-127.  | 9.4  | 142       |
| 59 | Voltage-Gated Transport of Nanoparticles across Free-Standing All-Carbon-Nanotube-Based Hollow-Fiber Membranes. ACS Applied Materials & Interfaces, 2015, 7, 14620-14627.  | 8.0  | 14        |
| 60 | Carbon nanotube hollow fiber membranes: High-throughput fabrication, structural control and electrochemically improved selectivity. Journal of Membrane Science, 2015, 493, 97-105.  | 8.2  | 38        |
| 61 | High-yield Electrosynthesis of Hydrogen Peroxide from Oxygen Reduction by Hierarchically Porous Carbon. Angewandte Chemie - International Edition, 2015, 54, 6837-6841.  | 13.8 | 419       |
| 62 | Constructing All Carbon Nanotube Hollow Fiber Membranes with Improved Performance in Separation and Antifouling for Water Treatment. Environmental Science & Technology, 2014, 48, 8062-8068.  | 10.0 | 53        |
| 63 | Nitrogen-doped nanodiamond rod array electrode with superior performance for electroreductive debromination of polybrominated diphenyl ethers. Applied Catalysis B: Environmental, 2014, 154-155, 206-212.   | 20.2 | 30        |
| 64 | Fluorescent assay for oxytetracycline based on a long-chain aptamer assembled onto reduced graphene oxide. Mikrochimica Acta, 2013, 180, 829-835.  | 5.0  | 57        |
| 65 | Graphene-TiO <sub>2</sub> Composite Photocatalyst with Enhanced Photocatalytic Performance. Chinese Journal of Catalysis, 2012, 33, 777-782.   | 14.0 | 28        |
| 66 | CeO <sub>2</sub> -TiO <sub>2</sub> Coated Ceramic Membrane with Catalytic Ozonation Capability for Treatment of Tetracycline in Drinking Water. Science of Advanced Materials, 2012, 4, 1191-1199.   | 0.7  | 32        |
| 67 | Graphene Sheets Grafted Ag@AgCl Hybrid with Enhanced Plasmonic Photocatalytic Activity under Visible Light. Environmental Science & Technology, 2011, 45, 5731-5736.   | 10.0 | 393       |
| 68 | A Structured Macroporous Silicon/Graphene Heterojunction for Efficient Photoconversion. Angewandte Chemie - International Edition, 2010, 49, 5106-5109.  | 13.8 | 76        |
| 69 | Distance-independent quenching of quantum dots by nanoscale-graphene in self-assembled sandwich immunoassay. Chemical Communications, 2010, 46, 7909.  | 4.1  | 106       |
| 70 | Performing a microfiltration integrated with photocatalysis using an Ag-TiO <sub>2</sub> /HAP/Al <sub>2</sub> O <sub>3</sub> composite membrane for water treatment: Evaluating effectiveness for humic acid removal and anti-fouling properties. Water Research, 2010, 44, 6104-6114. | 11.3 | 109       |
| 71 | Ag-TiO <sub>2</sub> /HAP/Al <sub>2</sub> O <sub>3</sub> bioceramic composite membrane: Fabrication, characterization and bactericidal activity. Journal of Membrane Science, 2009, 336, 109-117.   | 8.2  | 96        |