

Xinfei Fan

List of Publications by Year in descending order

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71
papers

4,648
citations

94269

37
h-index

98622

67
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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.	4.2	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.	3.9	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.	2.2	23
4	Preparation and application of high-performance and acid-tolerant TiO ₂ /carbon electrocatalytic membrane for organic wastewater treatment. <i>Chemosphere</i> , 2022, 296, 134017.	4.2	12
5	Promoting electrochemical reduction of CO ₂ to ethanol by B/N-doped sp ³ /sp ² nanocarbon electrode. <i>Chinese Chemical Letters</i> , 2022, 33, 4691-4694.	4.8	12
6	Insight into the effects of Cu ²⁺ ions and CuO species in Cu-SSZ-13 catalysts for selective catalytic reduction of NO by NH ₃ . <i>Journal of Colloid and Interface Science</i> , 2022, 622, 1-10.	5.0	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.	2.6	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.	1.9	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.	5.0	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.	1.3	5
11	Morphology-controlled synthesis of ZnSnO ₃ hollow spheres and their n-butanol gas-sensing performance. <i>Ceramics International</i> , 2021, 47, 2471-2482.	2.3	39
12	Carbon-based membrane materials and applications in water and wastewater treatment: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1457-1475.	8.3	55
13	In-situ silica nanoparticle assembly technique to develop an omniphobic membrane for durable membrane distillation. <i>Desalination</i> , 2021, 499, 114832.	4.0	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.	2.2	14
15	A self-floating, salt-resistant 3D Janus radish-based evaporator for highly efficient solar desalination. <i>Desalination</i> , 2021, 510, 115093.	4.0	67
16	Enhanced organic wastewater treatment performance in electrochemical filtration process of coal-based carbon membrane via the simple Fe ²⁺ addition. <i>Separation and Purification Technology</i> , 2021, 276, 119418.	3.9	9
17	Facile fabrication of low-cost starch-based biohydrogel evaporator for efficient solar steam generation. <i>Desalination</i> , 2021, 517, 115260.	4.0	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.	3.9	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.	3.9	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.	4.1	13
21	Conductive CNT/nanofiber composite hollow fiber membranes with electrospun support layer for water purification. Journal of Membrane Science, 2020, 596, 117613.	4.1	35
22	Enhanced Permeability and Removal Efficiency for Phenol and Perfluorooctane Sulphonate by a Multifunctional CNT/Al ₂ O ₃ 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.	4.1	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.	2.6	7
25	Electrospun reduced graphene oxide/polyacrylonitrile membrane for high-performance solar evaporation. Solar Energy, 2020, 209, 325-333.	2.9	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.	5.2	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.	4.1	43
28	Developments of Carbon-Based Membrane Materials for Water Treatment. Environmental Chemistry for A Sustainable World, 2020, , 121-175.	0.3	1
29	Efficient Technique for Simultaneous Lead Recovery and PbO ₂ /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.	4.0	44
31	Electro-responsive carbon membranes with reversible superhydrophobicity/superhydrophilicity switch for efficient oil/water separation. Separation and Purification Technology, 2019, 210, 891-899.	3.9	77
32	Degradation of phenol by coal-based carbon membrane integrating sulfate radicals-based advanced oxidation processes. Ecotoxicology and Environmental Safety, 2019, 185, 109662.	2.9	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.	3.9	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.	3.3	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.	3.3	23
36	Enhanced Perfluorooctanoic Acid Degradation by Electrochemical Activation of Sulfate Solution on B/N Codoped Diamond. Environmental Science & Technology, 2019, 53, 5195-5201.	4.6	91

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37	Improvement of Antifouling and Antimicrobial Abilities on Silver-Carbon Nanotube Based Membranes under Electrochemical Assistance. <i>Environmental Science & Technology</i> , 2019, 53, 5292-5300.	4.6	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.	1.2	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.	5.2	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.	3.3	55
41	Improving Ion Rejection of Conductive Nanofiltration Membrane through Electrically Enhanced Surface Charge Density. <i>Environmental Science & Technology</i> , 2019, 53, 868-877.	4.6	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 & Technology</i> , 2018, 52, 4827-4834.	4.6	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.	3.9	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.	5.5	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 & Technology</i> , 2018, 52, 1444-1452.	4.6	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.	10.8	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.	6.6	25
48	Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-doped Nanodiamond. <i>Angewandte Chemie</i> , 2017, 129, 15813-15817.	1.6	196
49	Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-doped Nanodiamond. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15607-15611.	7.2	226
50	Innentitelbild: Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-doped Nanodiamond (Angew. Chem. 49/2017). <i>Angewandte Chemie</i> , 2017, 129, 15678-15678.	1.6	1
51	Integration of membrane filtration and photoelectrocatalysis on g-C ₃ N ₄ /CNTs/Al ₂ O ₃ membrane with visible-light response for enhanced water treatment. <i>Journal of Membrane Science</i> , 2017, 541, 153-161.	4.1	105
52	A controlled wet-spinning and dip-coating process for preparation of high-permeable TiO ₂ hollow fiber membranes. <i>Water Science and Technology</i> , 2016, 73, 725-733.	1.2	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.	4.1	64
54	Fabrication of TiO ₂ nanofiber membranes by a simple dip-coating technique for water treatment. <i>Surface and Coatings Technology</i> , 2016, 298, 45-52.	2.2	43

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55	Fabrication of Au/CNT hollow fiber membrane for 4-nitrophenol reduction. RSC Advances, 2016, 6, 41114-41121.	1.7	33
56	Nanocarbon-based membrane filtration integrated with electric field driving for effective membrane fouling mitigation. Water Research, 2016, 88, 285-292.	5.3	89
57	Enhanced Permeability, Selectivity, and Antifouling Ability of CNTs/Al ₂ O ₃ Membrane under Electrochemical Assistance. Environmental Science & Technology, 2015, 49, 2293-2300.	4.6	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.	5.0	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.	4.0	14
60	Carbon nanotube hollow fiber membranes: High-throughput fabrication, structural control and electrochemically improved selectivity. Journal of Membrane Science, 2015, 493, 97-105.	4.1	38
61	High-yield Electrosynthesis of Hydrogen Peroxide from Oxygen Reduction by Hierarchically Porous Carbon. Angewandte Chemie - International Edition, 2015, 54, 6837-6841.	7.2	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.	4.6	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.	10.8	30
64	Fluorescent assay for oxytetracycline based on a long-chain aptamer assembled onto reduced graphene oxide. Mikrochimica Acta, 2013, 180, 829-835.	2.5	57
65	Graphene-TiO ₂ Composite Photocatalyst with Enhanced Photocatalytic Performance. Chinese Journal of Catalysis, 2012, 33, 777-782.	6.9	28
66	CeO ₂ -TiO ₂ Coated Ceramic Membrane with Catalytic Ozonation Capability for Treatment of Tetracycline in Drinking Water. Science of Advanced Materials, 2012, 4, 1191-1199.	0.1	32
67	Graphene Sheets Grafted Ag@AgCl Hybrid with Enhanced Plasmonic Photocatalytic Activity under Visible Light. Environmental Science & Technology, 2011, 45, 5731-5736.	4.6	393
68	A Structured Macroporous Silicon/Graphene Heterojunction for Efficient Photoconversion. Angewandte Chemie - International Edition, 2010, 49, 5106-5109.	7.2	76
69	Distance-independent quenching of quantum dots by nanoscale-graphene in self-assembled sandwich immunoassay. Chemical Communications, 2010, 46, 7909.	2.2	106
70	Performing a microfiltration integrated with photocatalysis using an Ag-TiO ₂ /HAP/Al ₂ O ₃ composite membrane for water treatment: Evaluating effectiveness for humic acid removal and anti-fouling properties. Water Research, 2010, 44, 6104-6114.	5.3	109
71	Ag-TiO ₂ /HAP/Al ₂ O ₃ bioceramic composite membrane: Fabrication, characterization and bactericidal activity. Journal of Membrane Science, 2009, 336, 109-117.	4.1	96