

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	Facile Ammonia Synthesis from Electrocatalytic N ₂ Reduction under Ambient Conditions on N-Doped Porous Carbon. ACS Catalysis, 2018, 8, 1186-1191.	11.2	520
2	High-Yield Electrosynthesis of Hydrogen Peroxide from Oxygen Reduction by Hierarchically Porous Carbon. Angewandte Chemie - International Edition, 2015, 54, 6837-6841.	13.8	419
3	Graphene Sheets Grafted Ag@AgCl Hybrid with Enhanced Plasmonic Photocatalytic Activity under Visible Light. Environmental Science & Technology, 2011, 45, 5731-5736.	10.0	393
4	Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-Codoped Nanodiamond. Angewandte Chemie - International Edition, 2017, 56, 15607-15611.	13.8	226
5	Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-Codoped Nanodiamond. Angewandte Chemie, 2017, 129, 15813-15817.	2.0	196
6	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
7	Enhanced Permeability, Selectivity, and Antifouling Ability of CNTs/Al ₂ O ₃ Membrane under Electrochemical Assistance. Environmental Science & Technology, 2015, 49, 2293-2300.	10.0	128
8	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.	11.3	109
9	Distance-independent quenching of quantum dots by nanoscale-graphene in self-assembled sandwich immunoassay. Chemical Communications, 2010, 46, 7909.	4.1	106
10	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. Journal of Membrane Science, 2017, 541, 153-161.	8.2	105
11	Ag-TiO ₂ /HAP/Al ₂ O ₃ bioceramic composite membrane: Fabrication, characterization and bactericidal activity. Journal of Membrane Science, 2009, 336, 109-117.	8.2	96
12	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
13	Nanocarbon-based membrane filtration integrated with electric field driving for effective membrane fouling mitigation. Water Research, 2016, 88, 285-292.	11.3	89
14	Improving Ion Rejection of Conductive Nanofiltration Membrane through Electrically Enhanced Surface Charge Density. Environmental Science & Technology, 2019, 53, 868-877.	10.0	83
15	A multifunctional graphene-based nanofiltration membrane under photo-assistance for enhanced water treatment based on layer-by-layer sieving. Applied Catalysis B: Environmental, 2018, 224, 204-213.	20.2	80
16	Combined Effects of Surface Charge and Pore Size on Co-Enhanced Permeability and Ion Selectivity through RGO-OCNT Nanofiltration Membranes. Environmental Science & Technology, 2018, 52, 4827-4834.	10.0	79
17	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
18	A Structured Macroporous Silicon/Graphene Heterojunction for Efficient Photoconversion. Angewandte Chemie - International Edition, 2010, 49, 5106-5109.	13.8	76

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19	A self-floating, salt-resistant 3D Janus radish-based evaporator for highly efficient solar desalination. <i>Desalination</i> , 2021, 510, 115093.	8.2	67
20	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
21	Fluorescent assay for oxytetracycline based on a long-chain aptamer assembled onto reduced graphene oxide. <i>Mikrochimica Acta</i> , 2013, 180, 829-835.	5.0	57
22	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.	10.0	56
23	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
24	Low cost, facile, environmentally friendly all biomass-based squid ink-starch hydrogel for efficient solar-steam generation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24108-24116.	10.3	55
25	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
26	Electrospun reduced graphene oxide/polyacrylonitrile membrane for high-performance solar evaporation. <i>Solar Energy</i> , 2020, 209, 325-333.	6.1	54
27	Constructing All Carbon Nanotube Hollow Fiber Membranes with Improved Performance in Separation and Antifouling for Water Treatment. <i>Environmental Science & Technology</i> , 2014, 48, 8062-8068.	10.0	53
28	In-situ silica nanoparticle assembly technique to develop an omniphobic membrane for durable membrane distillation. <i>Desalination</i> , 2021, 499, 114832.	8.2	53
29	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
30	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
31	Carbon nanotubes-incorporated MIL-88B-Fe as highly efficient Fenton-like catalyst for degradation of organic pollutants. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	49
32	Improvement of Antifouling and Antimicrobial Abilities on Silver-Carbon Nanotube Based Membranes under Electrochemical Assistance. <i>Environmental Science & Technology</i> , 2019, 53, 5292-5300.	10.0	45
33	Preparation and characterization of high-performance electrospun forward osmosis membrane by introducing a carbon nanotube interlayer. <i>Journal of Membrane Science</i> , 2020, 616, 118563.	8.2	45
34	A novel reduced graphene oxide/carbon nanotube hollow fiber membrane with high forward osmosis performance. <i>Desalination</i> , 2019, 451, 117-124.	8.2	44
35	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.	4.8	43
36	High-performance electrocatalytic microfiltration CuO/Carbon membrane by facile dynamic electrodeposition for small-sized organic pollutants removal. <i>Journal of Membrane Science</i> , 2020, 601, 117913.	8.2	43

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37	Morphology-controlled synthesis of ZnSnO ₃ hollow spheres and their n-butanol gas-sensing performance. <i>Ceramics International</i> , 2021, 47, 2471-2482.	4.8	39
38	Carbon nanotube hollow fiber membranes: High-throughput fabrication, structural control and electrochemically improved selectivity. <i>Journal of Membrane Science</i> , 2015, 493, 97-105.	8.2	38
39	Facile fabrication of low-cost starch-based hydrogel evaporator for efficient solar steam generation. <i>Desalination</i> , 2021, 517, 115260.	8.2	38
40	Conductive CNT/nanofiber composite hollow fiber membranes with electrospun support layer for water purification. <i>Journal of Membrane Science</i> , 2020, 596, 117613.	8.2	35
41	Fabrication of Au/CNT hollow fiber membrane for 4-nitrophenol reduction. <i>RSC Advances</i> , 2016, 6, 41114-41121.	3.6	33
42	CeO ₂ /TiO ₂ Coated Ceramic Membrane with Catalytic Ozonation Capability for Treatment of Tetracycline in Drinking Water. <i>Science of Advanced Materials</i> , 2012, 4, 1191-1199.	0.7	32
43	Nitrogen-doped nanodiamond rod array electrode with superior performance for electroreductive debromination of polybrominated diphenyl ethers. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 206-212.	20.2	30
44	Graphene-TiO ₂ Composite Photocatalyst with Enhanced Photocatalytic Performance. <i>Chinese Journal of Catalysis</i> , 2012, 33, 777-782.	14.0	28
45	Degradation of phenol by coal-based carbon membrane integrating sulfate radicals-based advanced oxidation processes. <i>Ecotoxicology and Environmental Safety</i> , 2019, 185, 109662.	6.0	28
46	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
47	A pH-responsive PAA-grafted-CNT intercalated RGO membrane with steady separation efficiency for charged contaminants over a wide pH range. <i>Separation and Purification Technology</i> , 2019, 215, 422-429.	7.9	25
48	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.	9.4	24
49	Comparison of CNT-PVA membrane and commercial polymeric membranes in treatment of emulsified oily wastewater. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	23
50	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
51	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
52	Improved separation performance of carbon nanotube hollow fiber membrane by peroxydisulfate activation. <i>Separation and Purification Technology</i> , 2021, 276, 119328.	7.9	17
53	Voltage-Gated Transport of Nanoparticles across Free-Standing All-Carbon-Nanotube-Based Hollow-Fiber Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14620-14627.	8.0	14
54	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

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55	Facile morphology-controlled synthesis of ZnO electrocatalysts on coal-based carbon membrane for antibiotics wastewater treatment. <i>Journal of Membrane Science</i> , 2021, 639, 119734.	8.2	13
56	Preparation and application of high-performance and acid-tolerant TiO ₂ /carbon electrocatalytic membrane for organic wastewater treatment. <i>Chemosphere</i> , 2022, 296, 134017.	8.2	12
57	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.	9.0	12
58	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
59	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
60	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.	7.9	9
61	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
62	Silver nanowire-carbon nanotube/coal-based carbon composite membrane with fascinating antimicrobial ability and antibiofouling under electrochemical assistance. <i>Journal of Water Process Engineering</i> , 2020, 38, 101617.	5.6	7
63	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
64	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
65	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
66	Enhanced Permeability and Removal Efficiency for Phenol and Perfluorooctane Sulphonate by a Multifunctional CNT/Al ₂ O ₃ Membrane with Electrochemical Assistance. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5951-5958.	0.9	3
67	Efficient Technique for Simultaneous Lead Recovery and PbO ₂ /Ti Electrode Preparation for Electrocatalytic Degradation of Basic Red. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5874-5884.	0.9	3
68	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.	2.5	2
69	Innenteilbild: Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-Co-doped Nanodiamond (<i>Angew. Chem.</i> 49/2017). <i>Angewandte Chemie</i> , 2017, 129, 15678-15678.	2.0	1
70	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
71	Developments of Carbon-Based Membrane Materials for Water Treatment. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 121-175.	0.5	1