

Zhigao Zhu

List of Publications by Year in descending order

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47
papers

2,968
citations

172207

29
h-index

214527

47
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47
all docs

47
docs citations

47
times ranked

2791
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism insight into gypsum scaling of differently wettable membrane surfaces with antiscalants in membrane distillation. <i>Journal of Membrane Science</i> , 2022, 652, 120499.	4.1	19
2	Rational Regulation of Co ²⁺ /Ni ²⁺ Coordination for High-Efficiency Generation of H ₂ O ₂ toward Nearly 100% Selective Degradation of Organic Pollutants. <i>Environmental Science & Technology</i> , 2022, 56, 8833-8843.	4.6	130
3	Tailoring pore size and interface of superhydrophobic nanofibrous membrane for robust scaling resistance and flux enhancement in membrane distillation. <i>Journal of Membrane Science</i> , 2022, 658, 120751.	4.1	35
4	Ion-nucleating competition cooperated with antiscalant for effectively mitigating gypsum scaling in membrane distillation. <i>Desalination</i> , 2022, 539, 115969.	4.0	5
5	Porous evaporators with special wettability for low-grade heat-driven water desalination. <i>Journal of Materials Chemistry A</i> , 2021, 9, 702-726.	5.2	60
6	Insight into the feed/permeate flow velocity on the trade-off of water flux and scaling resistance of superhydrophobic and welding-pore fibrous membrane in membrane distillation. <i>Journal of Membrane Science</i> , 2021, 620, 118883.	4.1	35
7	Superhydrophobic-omniphobic membrane with anti-deformable pores for membrane distillation with excellent wetting resistance. <i>Journal of Membrane Science</i> , 2021, 620, 118768.	4.1	68
8	Superhydrophobized Polyacrylonitrile/Hierarchical-FeOOH Nanofibrous Membrane for High-salinity Water Treatment in Membrane Distillation. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 470-479.	1.3	2
9	Ultrahigh and Stable Water Recovery of Reverse Osmosis-Concentrated Seawater with Membrane Distillation by Synchronously Optimizing Membrane Interfaces and Seawater Ingredients. <i>ACS ES&T Water</i> , 2021, 1, 1577-1586.	2.3	18
10	In Situ Three-Dimensional Welded Nanofibrous Membranes for Robust Membrane Distillation of Concentrated Seawater. <i>Environmental Science & Technology</i> , 2021, 55, 11308-11317.	4.6	17
11	All-Polymer and Self-Roughened Superhydrophobic PVDF Fibrous Membranes for Stably Concentrating Seawater by Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45977-45986.	4.0	20
12	In Situ Fenton Triggered PDA Coating Copper Mesh with Underwater Superoleophobic Property for Oily Wastewater Pretreatment. <i>Processes</i> , 2021, 9, 1665.	1.3	1
13	Design of firm-pore superhydrophobic fibrous membrane for advancing the durability of membrane distillation. <i>Desalination</i> , 2021, 519, 115185.	4.0	23
14	Omniphobic membrane with process optimization for advancing flux and durability toward concentrating reverse-osmosis concentrated seawater with membrane distillation. <i>Journal of Membrane Science</i> , 2021, 639, 119763.	4.1	23
15	Recent advances in membrane distillation using electrospun membranes: advantages, challenges, and outlook. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1002-1019.	1.2	11
16	Activation of peroxymonosulfate by magnetic Co-Fe/SiO ₂ layered catalyst derived from iron sludge for ciprofloxacin degradation. <i>Chemical Engineering Journal</i> , 2020, 384, 123298.	6.6	94
17	Monolithic and self-roughened Janus fibrous membrane with superhydrophilic/omniphobic surface for robust antifouling and antiwetting membrane distillation. <i>Journal of Membrane Science</i> , 2020, 615, 118499.	4.1	68
18	Bioinspired superwetting fibrous skin with hierarchical roughness for efficient oily water separation. <i>Science of the Total Environment</i> , 2020, 744, 140822.	3.9	30

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19	Mechanically durable biomimetic fibrous membrane with superhydrophobicity and superoleophilicity for aqueous oil separation. <i>Chinese Chemical Letters</i> , 2020, 31, 2619-2622.	4.8	36
20	A mechanically durable, sustained corrosion-resistant photothermal nanofiber membrane for highly efficient solar distillation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22296-22306.	5.2	60
21	Co-Electrospun VTiO ₂ Hollow Nanofibers for Selective Oxidation of Methanol to High Value Chemicals. <i>ACS Applied Nano Materials</i> , 2019, 2, 5224-5232.	2.4	7
22	Iron sludge-derived magnetic FeO/Fe ₃ C catalyst for oxidation of ciprofloxacin via peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2019, 365, 99-110.	6.6	165
23	One-step nanotopography construction by polyaniline polymerization for a superhydrophobic nanofibrous membrane towards direct contact membrane distillation. <i>Environmental Science: Nano</i> , 2019, 6, 2553-2564.	2.2	20
24	Easily scaled-up photo-thermal membrane with structure-dependent auto-cleaning feature for high-efficient solar desalination. <i>Journal of Membrane Science</i> , 2019, 586, 222-230.	4.1	87
25	Dendritic amine sheltered membrane for simultaneous ammonia selection and fouling mitigation in forward osmosis. <i>Journal of Membrane Science</i> , 2019, 584, 9-19.	4.1	19
26	Polyamidoamine dendrimer grafted forward osmosis membrane with superior ammonia selectivity and robust antifouling capacity for domestic wastewater concentration. <i>Water Research</i> , 2019, 153, 1-10.	5.3	105
27	Dual-biomimetic superwetting silica nanofibrous membrane for oily water purification. <i>Journal of Membrane Science</i> , 2019, 572, 73-81.	4.1	52
28	Insights into simultaneous ammonia-selective and anti-fouling mechanism over forward osmosis membrane for resource recovery from domestic wastewater. <i>Journal of Membrane Science</i> , 2019, 573, 135-144.	4.1	30
29	Dual-Bioinspired Design for Constructing Membranes with Superhydrophobicity for Direct Contact Membrane Distillation. <i>Environmental Science & Technology</i> , 2018, 52, 3027-3036.	4.6	130
30	Nitrogen doped hierarchically structured porous carbon fibers with an ultrahigh specific surface area for removal of organic dyes. <i>RSC Advances</i> , 2018, 8, 19116-19124.	1.7	10
31	Breathable and asymmetrically superwetable Janus membrane with robust oil-fouling resistance for durable membrane distillation. <i>Journal of Membrane Science</i> , 2018, 563, 602-609.	4.1	137
32	Electrostatic assembly of superwetting porous nanofibrous membrane toward oil-in-water microemulsion separation. <i>Chemical Engineering Journal</i> , 2018, 354, 463-472.	6.6	68
33	Magnetic nitrogen-doped nanocarbons for enhanced metal-free catalytic oxidation: Integrated experimental and theoretical investigations for mechanism and application. <i>Chemical Engineering Journal</i> , 2018, 354, 507-516.	6.6	162
34	Calcinable Polymer Membrane with Revivability for Efficient Oily Water Remediation. <i>Advanced Materials</i> , 2018, 30, e1801870.	11.1	176
35	Adsorption-intensified degradation of organic pollutants over bifunctional Fe@carbon nanofibres. <i>Environmental Science: Nano</i> , 2017, 4, 302-306.	2.2	61
36	Three-component mixed matrix organic/inorganic hybrid membranes for pervaporation separation of ethanol-water mixture. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	11

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37	New Insight into the Aggregation of Graphene Oxide Using Molecular Dynamics Simulations and Extended Derjaguinâ€“Landauâ€“Verweyâ€“Overbeek Theory. Environmental Science & Technology, 2017, 51, 9674-9682.	4.6	63
38	Magnetic Feâ€“Co crystal doped hierarchical porous carbon fibers for removal of organic pollutants. Journal of Materials Chemistry A, 2017, 5, 18071-18080.	5.2	111
39	Gravity driven ultrafast removal of organic contaminants across catalytic superwetting membranes. Journal of Materials Chemistry A, 2017, 5, 25266-25275.	5.2	45
40	Ultrahigh adsorption capacity of anionic dyes with sharp selectivity through the cationic charged hybrid nanofibrous membranes. Chemical Engineering Journal, 2017, 313, 957-966.	6.6	160
41	Rapid capture of Ponceau S via a hierarchical organicâ€“inorganic hybrid nanofibrous membrane. Journal of Materials Chemistry A, 2016, 4, 5423-5427.	5.2	24
42	Preparation and characterization of SiO_2/PDMS surface sieving pervaporation membrane for separation of ethanol/water mixture. Journal of Applied Polymer Science, 2015, 132, .	1.3	17
43	Carbon Nanotubes Enhanced Fluorinated Polyurethane Macroporous Membranes for Waterproof and Breathable Application. ACS Applied Materials & Interfaces, 2015, 7, 13538-13546.	4.0	173
44	Fast capture of methyl-dyes over hierarchical amino- $\text{Co}_{0.3}\text{Ni}_{0.7}\text{Fe}_2\text{O}_4/\text{SiO}_2$ nanofibrous membranes. Journal of Materials Chemistry A, 2015, 3, 22000-22004.	5.2	34
45	Superamphiphobic nanofibrous membranes for effective filtration of fine particles. Journal of Colloid and Interface Science, 2014, 428, 41-48.	5.0	137
46	Gravity driven separation of emulsified oilâ€“water mixtures utilizing in situ polymerized superhydrophobic and superoleophilic nanofibrous membranes. Journal of Materials Chemistry A, 2013, 1, 14071.	5.2	165
47	Highly sensitive formaldehyde sensors based on polyvinylamine modified polyacrylonitrile nanofibers. RSC Advances, 2013, 3, 22994.	1.7	44