

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 | Calcuable Polymer Membrane with Revivability for Efficient Oil/Water Remediation. <i>Advanced Materials</i> , 2018, 30, e1801870. | 11.1 | 176 |
| 2 | Carbon Nanotubes Enhanced Fluorinated Polyurethane Macroporous Membranes for Waterproof and Breathable Application. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13538-13546. | 4.0 | 173 |
| 3 | Gravity driven separation of emulsified oil/water mixtures utilizing in situ polymerized superhydrophobic and superoleophilic nanofibrous membranes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14071. | 5.2 | 165 |
| 4 | 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 |
| 5 | 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 |
| 6 | Ultrahigh adsorption capacity of anionic dyes with sharp selectivity through the cationic charged hybrid nanofibrous membranes. <i>Chemical Engineering Journal</i> , 2017, 313, 957-966. | 6.6 | 160 |
| 7 | Superamphiphobic nanofibrous membranes for effective filtration of fine particles. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 41-48. | 5.0 | 137 |
| 8 | 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 |
| 9 | 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 |
| 10 | Rational Regulation of Co-Ni-C Coordination for High-Efficiency Generation of ¹ O ₂ toward Nearly 100% Selective Degradation of Organic Pollutants. <i>Environmental Science & Technology</i> , 2022, 56, 8833-8843. | 4.6 | 130 |
| 11 | Magnetic Fe-Co crystal doped hierarchical porous carbon fibers for removal of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18071-18080. | 5.2 | 111 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | New Insight into the Aggregation of Graphene Oxide Using Molecular Dynamics Simulations and Extended Derjaguin-Landau-Verwey-Overbeek Theory. <i>Environmental Science & Technology</i> , 2017, 51, 9674-9682. | 4.6 | 63 |

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|----|--|-----|-----------|
| 19 | Adsorption-intensified degradation of organic pollutants over bifunctional Fe@carbon nanofibres. <i>Environmental Science: Nano</i> , 2017, 4, 302-306. | 2.2 | 61 |
| 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 | 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 |
| 22 | Dual-biomimetic superwetting silica nanofibrous membrane for oily water purification. <i>Journal of Membrane Science</i> , 2019, 572, 73-81. | 4.1 | 52 |
| 23 | Gravity driven ultrafast removal of organic contaminants across catalytic superwetting membranes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25266-25275. | 5.2 | 45 |
| 24 | Highly sensitive formaldehyde sensors based on polyvinylamine modified polyacrylonitrile nanofibers. <i>RSC Advances</i> , 2013, 3, 22994. | 1.7 | 44 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22000-22004. | 5.2 | 34 |
| 29 | 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 |
| 30 | 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 |
| 31 | Rapid capture of Ponceau S via a hierarchical organic-inorganic hybrid nanofibrous membrane. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5423-5427. | 5.2 | 24 |
| 32 | Design of firm-pore superhydrophobic fibrous membrane for advancing the durability of membrane distillation. <i>Desalination</i> , 2021, 519, 115185. | 4.0 | 23 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | Mechanism insight into gypsum scaling of differently wetttable membrane surfaces with antiscalants in membrane distillation. <i>Journal of Membrane Science</i> , 2022, 652, 120499. | 4.1 | 19 |
| 38 | 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 |
| 39 | Preparation and characterization of <i>S</i> - <i>PDMS</i> surface sieving pervaporation membrane for separation of ethanol/water mixture. <i>Journal of Applied Polymer Science</i> , 2015, 132, . | 1.3 | 17 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | Co-Electrospun <i>VTiO</i> Hollow Nanofibers for Selective Oxidation of Methanol to High Value Chemicals. <i>ACS Applied Nano Materials</i> , 2019, 2, 5224-5232. | 2.4 | 7 |
| 45 | Ion-nucleating competition cooperated with antiscalant for effectively mitigating gypsum scaling in membrane distillation. <i>Desalination</i> , 2022, 539, 115969. | 4.0 | 5 |
| 46 | Superhydrophobized Polyacrylonitrile/Hierarchical- <i>FeOOH</i> Nanofibrous Membrane for High-salinity Water Treatment in Membrane Distillation. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 470-479. | 1.3 | 2 |
| 47 | 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 |