# Xue-Ting Zhao

List of Publications by Year
in descending order

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| 67 | 5,798 | 87723 | 110170 |
|---|---|---|---|
| papers | citations | 38 h-index | 64 g-index |

| 68 | 68 | 68 | 4607 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Optimizing functional layer of cation exchange membrane by three-dimensional cross-linking quaternization for enhancing monovalent selectivity. Chinese Chemical Letters, 2022, 33, 2757-2762. | 4.8 | 8 |
| 2 | Hierarchical metal-phenolic-polyplex assembly toward superwetting membrane for high-flux and antifouling oil-water separation. Chinese Chemical Letters, 2022, 33, 3859-3864. | 4.8 | 16 |
| 3 | Hierarchical cactus-like microsphere network membranes engineered via multiple polyphenol-mediated complexation for efficient solar-powered water purification. Journal of Materials Chemistry A, 2022, 10, 13895-13906. | 5.2 | 13 |
| 4 | Surface modification of reverse osmosis membrane with tannic acid for improving chlorine resistance. Desalination, 2021, 498, 114639. | 4.0 | 34 |
| 5 | Super-hydrophobic F-TiO2@PP membranes with nano-scale â€œcoralâ€•like synapses for waste oil recovery. Separation and Purification Technology, 2021, 267, 118579. | 3.9 | 23 |
| 6 | Engineering superwetting membranes through polyphenol-polycation-metal complexation for high-efficient oil/water separation: From polyphenol to tailored nanostructures. Journal of Membrane Science, 2021, 630, 119310. | 4.1 | 50 |
| 7 | Preparation of monovalent cation perm-selective membranes by controlling surface hydration energy barrier. Separation and Purification Technology, 2021, 270, 118768. | 3.9 | 25 |
| 8 | Amphiphilic super-wetting membranes from direct immobilization of nanoparticles by in-situ polymerization and ionic cross-linking during phase inversion. Journal of Membrane Science, 2021, 635, 119469. | 4.1 | 11 |
| 9 | A rigid-flexible interpenetrating polyamide reverse osmosis membrane with improved antifouling property fabricated via two step modifications. Journal of Membrane Science, 2021, 637, 119625. | 4.1 | 17 |
| 10 | Polyphenol-engineered superwetting membranes with wrinkled microspherical organizations for high-efficient oil/water separation. Journal of Membrane Science, 2021, 640, 119813. | 4.1 | 20 |
| 11 | Green Fabrication of Tertrabutylammonium Styrene Sulfonate Cation-Exchange Membranes via a Solvent-Free Photopolymerization Strategy. Industrial & Engineering Chemistry Research, 2021, 60, 17055-17064. | 1.8 | 1 |
| 12 | Diatom-Inspired TiO<sub>2</sub>-PANi-Decorated Bilayer Photothermal Foam for Solar-Driven Clean Water Generation. ACS Applied Materials & Interfaces, 2021, 13, 58124-58133. | 4.0 | 34 |
| 13 | In situ metal-polyphenol interfacial assembly tailored superwetting PES/SPES/MPN membranes for oil-in-water emulsion separation. Journal of Membrane Science, 2020, 615, 118566. | 4.1 | 81 |
| 14 | Antifouling modification of PVDF membranes via in situ mixed-charge copolymerization and TiO2 mineralization. Applied Surface Science, 2020, 525, 146564. | 3.1 | 28 |
| 15 | Polyphenol-metal manipulated nanohybridization of CNT membranes with FeOOH nanorods for high-flux, antifouling and self-cleaning oil/water separation. Journal of Membrane Science, 2020, 600, 117857. | 4.1 | 80 |
| 16 | Superwetting Oil/Water Separation Membrane Constructed from In Situ Assembled Metalâ€“Phenolic Networks and Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2020, 12, 10000-10008. | 4.0 | 113 |
| 17 | Bioinspired synthesis of polyzwitterion/titania functionalized carbon nanotube membrane with superwetting property for efficient oil-in-water emulsion separation. Journal of Membrane Science, 2019, 589, 117257. | 4.1 | 77 |
| 18 | Constructing Antifouling Hybrid Membranes with Hierarchical Hybrid Nanoparticles for Oil-in-Water Emulsion Separation. ACS Omega, 2019, 4, 2320-2330. | 1.6 | 38 |

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|---|---|---|---|
| 19 | A facile preparation of positively charged composite nanofiltration membrane with high selectivity and permeability. Journal of Membrane Science, 2019, 581, 214-223. | 4.1 | 99 |
| 20 | Antifouling membrane surface construction: Chemistry plays a critical role. Journal of Membrane Science, 2018, 551, 145-171. | 4.1 | 309 |
| 21 | Modification of poly(amide-urethane-imide) (PAUI) thin film composite reverse osmosis membrane with nano-silver particles. RSC Advances, 2018, 8, 37817-37827. | 1.7 | 4 |
| 22 | Engineering of thermo-/pH-responsive membranes with enhanced gating coefficients, reversible behaviors and self-cleaning performance through acetic acid boosted microgel assembly. Journal of Materials Chemistry A, 2018, 6, 11874-11883. | 5.2 | 42 |
| 23 | Metal-polyphenol coordination networks: Towards engineering of antifouling hybrid membranes via in situ assembly. Journal of Membrane Science, 2018, 563, 435-446. | 4.1 | 42 |
| 24 | Dopamine-induced biomimetic mineralization for in situ developing antifouling hybrid membrane. Journal of Membrane Science, 2018, 560, 47-57. | 4.1 | 61 |
| 25 | CO<sub>2</sub> separation membranes with high permeability and CO<sub>2</sub>/N<sub>2</sub> selectivity prepared by electrostatic self-assembly of polyethylenimine on reverse osmosis membranes. RSC Advances, 2017, 7, 14678-14687. | 1.7 | 12 |
| 26 | Aggregation suppressed thin film nanocomposite (TFN) membranes prepared with an in situ generation of TiO<sub>2</sub> nanoadditives. RSC Advances, 2017, 7, 26136-26144. | 1.7 | 23 |
| 27 | Engineering amphiphilic nanofiltration membrane surfaces with a multi-defense mechanism for improved antifouling performances. Journal of Materials Chemistry A, 2016, 4, 7892-7902. | 5.2 | 66 |
| 28 | Antifouling membranes for sustainable water purification: strategies and mechanisms. Chemical Society Reviews, 2016, 45, 5888-5924. | 18.7 | 977 |
| 29 | Manipulating the multifunctionalities of polydopamine to prepare high-flux anti-biofouling composite nanofiltration membranes. RSC Advances, 2016, 6, 32863-32873. | 1.7 | 23 |
| 30 | Free-Standing Graphene Oxide-Palygorskite Nanohybrid Membrane for Oil/Water Separation. ACS Applied Materials & Interfaces, 2016, 8, 8247-8256. | 4.0 | 214 |
| 31 | Manipulating the segregation behavior of polyethylene glycol by hydrogen bonding interaction to endow ultrafiltration membranes with enhanced antifouling performance. Journal of Membrane Science, 2016, 499, 56-64. | 4.1 | 91 |
| 32 | Enhanced membrane antifouling and separation performance by manipulating phase separation and surface segregation behaviors through incorporating versatile modifier. Journal of Membrane Science, 2016, 499, 406-417. | 4.1 | 54 |
| 33 | Fouling Release. , 2016, , 815-816. | | 0 |
| 34 | Fouling Release Membranes. , 2016, , 816-818. | | 0 |
| 35 | Improved antifouling property of PVDF membranes by incorporating an amphiphilic block-like copolymer for oil/water emulsion separation. RSC Advances, 2015, 5, 21349-21359. | 1.7 | 53 |
| 36 | Coordination-enabled synergistic surface segregation for fabrication of multi-defense mechanism membranes. Journal of Materials Chemistry A, 2015, 3, 3325-3331. | 5.2 | 83 |

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|---|---|---|---|
| 37 | Fabrication of antifouling polymerâ€“inorganic hybrid membranes through the synergy of biomimetic mineralization and nonsolvent induced phase separation. Journal of Materials Chemistry A, 2015, 3, 7287-7295. | 5.2 | 84 |
| 38 | Preparation of Antifouling Nanofiltration Membrane via Interfacial Polymerization of Fluorinated Polyamine and Trimesoyl Chloride. Industrial & Engineering Chemistry Research, 2015, 54, 8302-8310. | 1.8 | 25 |
| 39 | Investigation of antifouling universality of polyvinyl formal (PVF) membranes utilizing atomic force microscope (AFM) force curves. RSC Advances, 2015, 5, 36894-36901. | 1.7 | 7 |
| 40 | Improved antifouling properties of polyethersulfone membrane by blending the amphiphilic surface modifier with crosslinked hydrophobic segments. Journal of Membrane Science, 2015, 486, 195-206. | 4.1 | 85 |
| 41 | Preparation of pH-responsive membranes with amphiphilic copolymers by surface segregation method. Chinese Journal of Chemical Engineering, 2015, 23, 1283-1290. | 1.7 | 13 |
| 42 | Multiple antifouling capacities of hybrid membranes derived from multifunctional titania nanoparticles. Journal of Membrane Science, 2015, 495, 226-234. | 4.1 | 34 |
| 43 | Constructing a zwitterionic ultrafiltration membrane surface via multisite anchorage for superior long-term antifouling properties. RSC Advances, 2015, 5, 40126-40134. | 1.7 | 20 |
| 44 | A green approach to porous and dense antifouling membranes through solvent-free bulk polymerization. Chemical Engineering Science, 2015, 135, 501-508. | 1.9 | 8 |
| 45 | Preparation of thin film composite nanofiltration membrane with improved structural stability through the mediation of polydopamine. Journal of Membrane Science, 2015, 476, 10-19. | 4.1 | 196 |
| 46 | pH and temperature responsive porous membranes via an in situ bulk copolymerization approach. Polymer, 2014, 55, 1347-1357. | 1.8 | 12 |
| 47 | Separation performance of thin-film composite nanofiltration membrane through interfacial polymerization using different amine monomers. Desalination, 2014, 333, 59-65. | 4.0 | 177 |
| 48 | Improved performance of composite nanofiltration membranes by adding calcium chloride in aqueous phase during interfacial polymerization process. Journal of Membrane Science, 2014, 452, 90-96. | 4.1 | 90 |
| 49 | Engineering amphiphilic membrane surfaces based on PEO and PDMS segments for improved antifouling performances. Journal of Membrane Science, 2014, 450, 111-123. | 4.1 | 148 |
| 50 | Surface fluorination of polyamide nanofiltration membrane for enhanced antifouling property. Journal of Membrane Science, 2014, 455, 15-23. | 4.1 | 90 |
| 51 | Improved Antifouling Properties of Poly(vinyl chloride) Ultrafiltration Membranes via Surface Zwitterionicalization. Industrial & Engineering Chemistry Research, 2014, 53, 14046-14055. | 1.8 | 49 |
| 52 | A novel positively charged composite nanofiltration membrane prepared by bio-inspired adhesion of polydopamine and surface grafting of poly(ethylene imine). Journal of Membrane Science, 2014, 470, 9-17. | 4.1 | 214 |
| 53 | Fabrication of polyvinyl chloride ultrafiltration membranes with stable antifouling property by exploring the pore formation and surface modification capabilities of polyvinyl formal. Journal of Membrane Science, 2014, 464, 100-109. | 4.1 | 155 |
| 54 | Biomimetic and bioinspired membranes: Preparation and application. Progress in Polymer Science, 2014, 39, 1668-1720. | 11.8 | 174 |

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|---|---|---|---|
| 55 | Antifouling, High-Flux Nanofiltration Membranes Enabled by Dual Functional Polydopamine. ACS Applied Materials & Interfaces, 2014, 6, 5548-5557. | 4.0 | 189 |
| 56 | Dopamine composite nanofiltration membranes prepared by self-polymerization and interfacial polymerization. Journal of Membrane Science, 2014, 465, 41-48. | 4.1 | 161 |
| 57 | Fouling Release Membranes. , 2014, , 1-3. | | 0 |
| 58 | Cross-linked bovine serum albumin composite membranes prepared by interfacial polymerization with stimuli-response properties. Journal of Membrane Science, 2013, 445, 1-7. | 4.1 | 25 |
| 59 | Hierarchically engineered membrane surfaces with superior antifouling and self-cleaning properties. Journal of Membrane Science, 2013, 441, 93-101. | 4.1 | 102 |
| 60 | Composite nanofiltration membranes prepared by interfacial polymerization with natural material tannic acid and trimesoyl chloride. Journal of Membrane Science, 2013, 429, 235-242. | 4.1 | 238 |
| 61 | Polyamide nanofiltration membrane with high separation performance prepared by EDC/NHS mediated interfacial polymerization. Journal of Membrane Science, 2013, 427, 92-100. | 4.1 | 95 |
| 62 | Antifouling Membranes Prepared by a Solvent-Free Approach via Bulk Polymerization of 2-Hydroxyethyl Methacrylate. Industrial & Engineering Chemistry Research, 2013, 52, 13137-13145. | 1.8 | 27 |
| 63 | Preparation and Performance of Antifouling PVC/CPVC Blend Ultrafiltration Membranes. Industrial & Engineering Chemistry Research, 2012, 51, 8308-8314. | 1.8 | 53 |
| 64 | Grafting perfluoroalkyl groups onto polyacrylonitrile membrane surface for improved fouling release property. Journal of Membrane Science, 2012, 415-416, 824-834. | 4.1 | 129 |
| 65 | Efficient Wastewater Treatment by Membranes through Constructing Tunable Antifouling Membrane Surfaces. Environmental Science & Technology, 2011, 45, 6545-6552. | 4.6 | 162 |
| 66 | pH-responsive and fouling-release properties of PES ultrafiltration membranes modified by multi-functional block-like copolymers. Journal of Membrane Science, 2011, 382, 222-230. | 4.1 | 45 |
| 67 | Engineering a Robust, Versatile Amphiphilic Membrane Surface Through Forced Surface Segregation for Ultralow Fluxâ€Decline. Advanced Functional Materials, 2011, 21, 191-198. | 7.8 | 169 |