# Yanying Wei

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 68 papers | 3,556 citations | 28 h-index | 59 g-index |
| 77 ext. papers | 4,699 ext. citations | 8.5 avg, IF | 5.96 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 68 | MXene Membranes for Salinity Gradient Energy Conversion **2022**, 157-173 | | |
| 67 | Types of 2D Material-Based Membranes **2022**, 9-24 | | |
| 66 | MXene Membranes for Ion Separation **2022**, 105-128 | | |
| 65 | MXene Membranes for Nanofiltration **2022**, 43-59 | | |
| 64 | MXene Membranes for the Isolation of Antibiotics **2022**, 61-88 | | |
| 63 | MXene Nanosheets and Membranes **2022**, 25-42 | | |
| 62 | Scale-Up of MXene Membranes **2022**, 175-195 | | |
| 61 | MXene -Based Membranes for Gas Separation **2022**, 89-104 | | |
| 60 | MXene Membrane for Oil/Water Emulsion Separation **2022**, 129-155 | | |
| 59 | Fast fabrication of freestanding MXene-ZIF-8 dual-layered membranes for H2/CO2 separation. *Journal of Membrane Science*, **2022**, 642, 119982 | 9.6 | 7 |
| 58 | Porous Stainless Steel Hollow Fiber-Supported ZIF-8 Membranes via FCDS for Hydrogen/Carbon Dioxide Separation. *Separation and Purification Technology*, **2022**, 121365 | 8.3 | 1 |
| 57 | Fast electrophoretic preparation of large-area two-dimensional titanium carbide membranes for ion sieving. *Chemical Engineering Journal*, **2021**, 408, 127806 | 14.7 | 20 |
| 56 | Recent progress of two-dimensional nanosheet membranes and composite membranes for separation applications. *Frontiers of Chemical Science and Engineering*, **2021**, 15, 793-819 | 4.5 | 11 |
| 55 | Supported MXene/GO Composite Membranes with Suppressed Swelling for Metal Ion Sieving. *Membranes*, **2021**, 11, | 3.8 | 2 |
| 54 | Identical Composition and Distinct Performance: How ZIF-8 Polymorphs Structures Affect the Adsorption/Separation of Ethane and Ethene. *Journal of Chemical & Engineering Data*, **2021**, 66, 3483-3492 | 2.8 | 3 |
| 53 | A Lamellar MXene (Ti C T )/PSS Composite Membrane for Fast and Selective Lithium-Ion Separation. *Angewandte Chemie - International Edition*, **2021**, 60, 22265-22269 | 16.4 | 18 |
| 52 | A Lamellar MXene (Ti3C2Tx)/PSS Composite Membrane for Fast and Selective Lithium-Ion Separation. *Angewandte Chemie*, **2021**, 133, 22439-22443 | 3.6 | 4 |

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| 51 | Antibiotics Separation with MXene Membranes Based on Regularly Stacked High-Aspect-Ratio Nanosheets. *Angewandte Chemie*, **2020**, 132, 9838-9843 | 3.6 | 7 |
| 50 | Antibiotics Separation with MXene Membranes Based on Regularly Stacked High-Aspect-Ratio Nanosheets. *Angewandte Chemie - International Edition*, **2020**, 59, 9751-9756 | 16.4 | 67 |
| 49 | Effective ion sieving with Ti3C2Tx MXene membranes for production of drinking water from seawater. *Nature Sustainability*, **2020**, 3, 296-302 | 22.1 | 204 |
| 48 | Oppositely Charged Ti C T MXene Membranes with 2D Nanofluidic Channels for Osmotic Energy Harvesting. *Angewandte Chemie - International Edition*, **2020**, 59, 8720-8726 | 16.4 | 88 |
| 47 | Oppositely Charged Ti3C2Tx MXene Membranes with 2D Nanofluidic Channels for Osmotic Energy Harvesting. *Angewandte Chemie*, **2020**, 132, 8798-8804 | 3.6 | 34 |
| 46 | Adsorption and separation of propane/propylene on various ZIF-8 polymorphs: Insights from GCMC simulations and the ideal adsorbed solution theory (IAST). *Chemical Engineering Journal*, **2020**, 386, 123945 | 14.7 | 21 |
| 45 | Flexible Polypropylene-Supported ZIF-8 Membranes for Highly Efficient Propene/Propane Separation. *Journal of the American Chemical Society*, **2020**, 142, 20915-20919 | 16.4 | 46 |
| 44 | Balancing the Grain Boundary Structure and the Framework Flexibility through Bimetallic Metal-Organic Framework (MOF) Membranes for Gas Separation. *Journal of the American Chemical Society*, **2020**, 142, 9582-9586 | 16.4 | 37 |
| 43 | Self-Crosslinked MXene (TiCT) Membranes with Good Antiswelling Property for Monovalent Metal Ion Exclusion. *ACS Nano*, **2019**, 13, 10535-10544 | 16.7 | 126 |
| 42 | Innentitelbild: Fein-Tuning der Porengrö in versteiften ZIF-8_Cm-Gerüsten durch eine Mixed-Linker-Strategie fü verbesserte permeative CO2/CH4-Trennung (Angew. Chem. 1/2019). *Angewandte Chemie*, **2019**, 131, 2-2 | 3.6 | 61 |
| 41 | Hydrogen permeability through Nd5.5W0.35Mo0.5Nb0.15O11.25-δ mixed protonic-electronic conducting membrane. *Journal of Membrane Science*, **2019**, 579, 33-39 | 9.6 | 12 |
| 40 | Ultra-thin titanium carbide (MXene) sheet membranes for high-efficient oil/water emulsions separation. *Journal of Membrane Science*, **2019**, 592, 117361 | 9.6 | 54 |
| 39 | Two-dimensional MXene membrane for ethanol dehydration. *Journal of Membrane Science*, **2019**, 590, 117300 | 9.6 | 44 |
| 38 | Fein-Tuning der Porengrö in versteiften ZIF-8_Cm-Gerüsten durch eine Mixed-Linker-Strategie fü verbesserte permeative CO2/CH4-Trennung. *Angewandte Chemie*, **2019**, 131, 333-337 | 3.6 | 14 |
| 37 | Ultra-Tuning of the Aperture Size in Stiffened ZIF-8_Cm Frameworks with Mixed-Linker Strategy for Enhanced CO /CH Separation. *Angewandte Chemie - International Edition*, **2019**, 58, 327-331 | 16.4 | 127 |
| 36 | Solvent-free route for metal organic framework membranes growth aiming for efficient gas separation. *AICHE Journal*, **2019**, 65, 712-722 | 3.6 | 15 |
| 35 | Highly efficient H2/CO2 separation via an ultrathin metal-organic framework membrane. *Chemical Engineering Science*, **2018**, 182, 180-188 | 4.4 | 33 |
| 34 | Effect of Pt layer on the hydrogen permeation property of La 5.5 W 0.45 Nb 0.15 Mo 0.4 O 11.25-δ membrane. *Journal of Membrane Science*, **2018**, 552, 61-67 | 9.6 | 11 |

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| 33 | High oxygen permeation through A-site deficient K 2 NiF 4+δ-type oxide hollow-fiber membrane. *Ceramics International*, **2018**, 44, 10852-10857 | 5.1 | 15 |
| 32 | MXene molecular sieving membranes for highly efficient gas separation. *Nature Communications*, **2018**, 9, 155 | 17.4 | 530 |
| 31 | Paralyzed membrane: Current-driven synthesis of a metal-organic framework with sharpened propene/propane separation. *Science Advances*, **2018**, 4, eaau1393 | 14.3 | 132 |
| 30 | Selective gas diffusion in two-dimensional MXene lamellar membranes: insights from molecular dynamics simulations. *Journal of Materials Chemistry A*, **2018**, 6, 11734-11742 | 13 | 61 |
| 29 | A Two-Dimensional Lamellar Membrane: MXene Nanosheet Stacks. *Angewandte Chemie - International Edition*, **2017**, 56, 1825-1829 | 16.4 | 518 |
| 28 | A Two-Dimensional Lamellar Membrane: MXene Nanosheet Stacks. *Angewandte Chemie*, **2017**, 129, 1851-1855 | 3.6 | 75 |
| 27 | Modeling of U-shaped Ba0.5Sr0.5Co0.8Fe0.2O3-δ hollow-fiber membrane for oxygen permeation. *Chinese Journal of Chemical Engineering*, **2017**, 25, 892-897 | 3.2 | 6 |
| 26 | Water Transport with Ultralow Friction through Partially Exfoliated g-C3N4 Nanosheet Membranes with Self-Supporting Spacers. *Angewandte Chemie*, **2017**, 129, 9102-9108 | 3.6 | 24 |
| 25 | Water Transport with Ultralow Friction through Partially Exfoliated g-C N Nanosheet Membranes with Self-Supporting Spacers. *Angewandte Chemie - International Edition*, **2017**, 56, 8974-8980 | 16.4 | 177 |
| 24 | Introduction of metal precursors by electrodeposition for the in situ growth of metal–organic framework membranes on porous metal substrates. *Journal of Materials Chemistry A*, **2017**, 5, 1948-1951 | 13 | 49 |
| 23 | Phase-inversion synthesize of asymmetric-structured La5.5W0.6Mo0.4O11.25-δ membranes with enhanced hydrogen permeation flux. *Journal of Alloys and Compounds*, **2017**, 729, 890-896 | 5.7 | 9 |
| 22 | Self-Sacrificial Template Strategy Coupled with Smart in Situ Seeding for Highly Oriented Metal–Organic Framework Layers: From Films to Membranes. *Chemistry of Materials*, **2017**, 29, 7103-7107 | 9.6 | 41 |
| 21 | Effect of the La/W ratio in lanthanum tungstate on the structure, stability and hydrogen permeation properties. *Journal of Membrane Science*, **2017**, 542, 300-306 | 9.6 | 10 |
| 20 | Tuning the separation performance of hydrogen permeable membranes using an anion doping strategy. *Journal of Materials Chemistry A*, **2017**, 5, 20482-20490 | 13 | 23 |
| 19 | CO2-tolerant Ni-La5.5WO11.25-δ dual-phase membranes with enhanced H2 permeability. *Ceramics International*, **2017**, 43, 14608-14615 | 5.1 | 12 |
| 18 | CO2-tolerant U-shaped hollow fiber membranes for hydrogen separation. *International Journal of Hydrogen Energy*, **2017**, 42, 4208-4215 | 6.7 | 15 |
| 17 | Gas to Liquids: Natural Gas Conversion to Aromatic Fuels and Chemicals in a Hydrogen-Permeable Ceramic Hollow Fiber Membrane Reactor. *ACS Catalysis*, **2016**, 6, 2448-2451 | 13.1 | 60 |
| 16 | Niobium and molybdenum co-doped La5.5WO11.25-δ membrane with improved hydrogen permeability. *Journal of Membrane Science*, **2016**, 510, 155-163 | 9.6 | 28 |

# List of Publications

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|---|---|---|---|
| 15 | Eine zweiphasige Keramikmembran mit extrem hohem Wasserstoff-Fluss durch Entmischung einer keramischen Vorstufe. *Angewandte Chemie*, **2016**, 128, 11055-11058 | 3.6 | 4 |
| 14 | Ceramic Membranes with Mixed Ionic and Electronic Conductivity **2016**, 75-103 | | 2 |
| 13 | A Dual-Phase Ceramic Membrane with Extremely High H2 Permeation Flux Prepared by Autoseparation of a Ceramic Precursor. *Angewandte Chemie - International Edition*, **2016**, 55, 10895-8 | 16.4 | 55 |
| 12 | A CO2-stable hollow-fiber membrane with high hydrogen permeation flux. *AICHE Journal*, **2015**, 61, 1997-2007 | 3.6 | 36 |
| 11 | Enhanced stability of Zr-doped Ba(CeTb)O(3-δ)-Ni cermet membrane for hydrogen separation. *Chemical Communications*, **2015**, 51, 11619-21 | 5.8 | 28 |
| 10 | Hydrogen permeability and stability of BaCe0.85Tb0.05Zr0.1O3-δ asymmetric membranes. *Journal of Membrane Science*, **2015**, 488, 173-181 | 9.6 | 30 |
| 9 | Partial oxidation of methane in hollow-fiber membrane reactors based on alkaline-earth metal-free CO2-tolerant oxide. *AICHE Journal*, **2014**, 60, 3587-3595 | 3.6 | 22 |
| 8 | Oxy-fuel combustion for CO2 capture using a CO2-tolerant oxygen transporting membrane. *AICHE Journal*, **2013**, 59, 3856-3862 | 3.6 | 13 |
| 7 | U-Shaped BaCo0.7Fe0.2Ta0.1O3-δ Hollow-Fiber Membranes with High Permeation for Oxygen Separation. *Industrial & Engineering Chemistry Research*, **2012**, 51, 15217-15223 | 3.9 | 13 |
| 6 | Oxygen permeation through a CO2-tolerant mixed conducting oxide (Pr0.9La0.1)2(Ni0.74Cu0.21Ga0.05)O4+δ *AICHE Journal*, **2012**, 58, 2473-2478 | 3.6 | 38 |
| 5 | Oxygen separation through U-shaped hollow fiber membrane using pure CO2 as sweep gas. *AICHE Journal*, **2012**, 58, 2856-2864 | 3.6 | 37 |
| 4 | Preparation and oxygen permeation of U-shaped perovskite hollow-fiber membranes. *AICHE Journal*, **2011**, 57, 975-984 | 3.6 | 54 |
| 3 | Oxygen Permeation through U-Shaped K2NiF4-Type Oxide Hollow-Fiber Membranes. *Industrial & Engineering Chemistry Research*, **2011**, 50, 12727-12734 | 3.9 | 25 |
| 2 | Oxidative Coupling of Methane with High C2 Yield by using Chlorinated Perovskite Ba0.5Sr0.5Fe0.2Co0.8O3-δ as Catalyst and N2O as Oxidant. *ChemCatChem*, **2010**, 2, 1539-1542 | 5.2 | 23 |
| 1 | Oxygen permeability and structural stability of a novel tantalum-doped perovskite BaCo0.7Fe0.2Ta0.1O3-δ *AICHE Journal*, **2009**, 56, NA-NA | 3.6 | 3 |