

# Yichang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53  
papers

4,696  
citations

29  
h-index

55  
g-index

55  
ext. papers

5,568  
ext. citations

7.7  
avg, IF

5.84  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 53 | High-performance ZIF-302 mixed-matrix membranes for efficient CO <sub>2</sub> capture. <i>Korean Journal of Chemical Engineering</i> , <b>2022</b> , 39, 1020   | 2.8  | 1         |
| 52 | Highly steam-stable CHA-type zeolite imidazole framework ZIF-302 membrane for hydrogen separation. <i>Separation and Purification Technology</i> , <b>2022</b> , 281, 119875  | 8.3  | 1         |
| 51 | Improved propylene/propane separation performance under high temperature and pressures on in-situ ligand-doped ZIF-8 membranes. <i>Journal of Membrane Science</i> , <b>2021</b> , 617, 118655  | 9.6  | 14        |
| 50 | Improved dispersion performance and interfacial compatibility of covalent-grafted MOFs in mixed-matrix membranes for gas separation. <i>Green Chemical Engineering</i> , <b>2021</b> , 2, 86-95   | 3    | 5         |
| 49 | Improved C <sub>3</sub> H <sub>6</sub> /C <sub>3</sub> H <sub>8</sub> separation performance on ZIF-8 membranes through enhancing PDMS contact-dependent confinement effect. <i>Journal of Membrane Science</i> , <b>2021</b> , 636, 119613 | 9.6  | 5         |
| 48 | Polycrystalline metal-organic framework (MOF) membranes for molecular separations: Engineering prospects and challenges. <i>Journal of Membrane Science</i> , <b>2021</b> , 640, 119802   | 9.6  | 12        |
| 47 | Improved CO <sub>2</sub> /CH <sub>4</sub> separation performance of mixed-matrix membrane by adding ZIF-7-NH <sub>2</sub> nanocrystals. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50424                                | 2.9  | 4         |
| 46 | Membrane-Based Olefin/Paraffin Separations. <i>Advanced Science</i> , <b>2020</b> , 7, 2001398  | 13.6 | 39        |
| 45 | Synthesis of tubular ZIF-8 membranes for propylene/propane separation under high-pressure. <i>Journal of Membrane Science</i> , <b>2020</b> , 595, 117503   | 9.6  | 23        |
| 44 | Locking of phase transition in MOF ZIF-7: improved selectivity in mixed-matrix membranes for O <sub>2</sub> /N <sub>2</sub> separation. <i>Materials Horizons</i> , <b>2020</b> , 7, 223-228  | 14.4 | 8         |
| 43 | Metal-organic framework nanosheets: An emerging family of multifunctional 2D materials. <i>Coordination Chemistry Reviews</i> , <b>2019</b> , 395, 25-45  | 23.2 | 122       |
| 42 | Rational matching between MOFs and polymers in mixed matrix membranes for propylene/propane separation. <i>Chemical Engineering Science</i> , <b>2019</b> , 204, 151-160  | 4.4  | 26        |
| 41 | Enhanced C <sub>3</sub> H <sub>6</sub> /C <sub>3</sub> H <sub>8</sub> separation performance in poly(vinyl acetate) membrane blended with ZIF-8 nanocrystals. <i>Chemical Engineering Science</i> , <b>2018</b> , 179, 1-12                 | 4.4  | 42        |
| 40 | Enhanced Uptake of Iodide from Solutions by Hollow Cu-Based Adsorbents. <i>Materials</i> , <b>2018</b> , 11,  | 3.5  | 9         |
| 39 | Synthesis and properties of magnetic zeolite with good magnetic stability from fly ash. <i>Journal of Sol-Gel Science and Technology</i> , <b>2018</b> , 87, 408-418  | 2.3  | 5         |
| 38 | Improved H <sub>2</sub> /CO <sub>2</sub> separation performance on mixed-linker ZIF-7 polycrystalline membranes. <i>Chemical Engineering Science</i> , <b>2018</b> , 192, 85-93   | 4.4  | 20        |
| 37 | Metal-organic framework adsorbents and membranes for separation applications. <i>Current Opinion in Chemical Engineering</i> , <b>2018</b> , 20, 122-131  | 5.4  | 46        |

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|----|--|------|-----|
| 36 | Morphological Map of ZIF-8 Crystals with Five Distinctive Shapes: Feature of Filler in Mixed-Matrix Membranes on C3H6/C3H8 Separation. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3467-3473   | 9.6  | 48  |
| 35 | Enhanced CO <sub>2</sub> /CH <sub>4</sub> separation performance of mixed-matrix membranes through dispersion of sorption-selective MOF nanocrystals. <i>Journal of Membrane Science</i> , <b>2018</b> , 563, 360-370  | 9.6  | 59  |
| 34 | Mesoporous Zirconium Phosphonate Hybrid Bentonite as a Novel Efficient Catalyst for the Removal of Trace Olefins from Aromatics. <i>Russian Journal of Applied Chemistry</i> , <b>2018</b> , 91, 758-763   | 0.8  | 1   |
| 33 | Unravelling surface and interfacial structures of a metal-organic framework by transmission electron microscopy. <i>Nature Materials</i> , <b>2017</b> , 16, 532-536   | 27   | 207 |
| 32 | From Discrete Molecular Cages to a Network of Cages Exhibiting Enhanced CO <sub>2</sub> Adsorption Capacity. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 7895-7899   | 3.6  | 14  |
| 31 | From Discrete Molecular Cages to a Network of Cages Exhibiting Enhanced CO Adsorption Capacity. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 7787-7791   | 16.4 | 44  |
| 30 | Self-assembly of fibrous ZSM-5 zeolites in the presence of sodium alginate. <i>Particuology</i> , <b>2017</b> , 33, 55-62  | 2.8  | 6   |
| 29 | Amino-Functionalized ZIF-7 Nanocrystals: Improved Intrinsic Separation Ability and Interfacial Compatibility in Mixed-Matrix Membranes for CO <sub>2</sub> /CH <sub>4</sub> Separation. <i>Advanced Materials</i> , <b>2017</b> , 29, 16069-16074                  | 9.4  | 160 |
| 28 | Enhanced CH <sub>4</sub> /C <sub>2</sub> H <sub>6</sub> separation performance on MOF membranes through blocking defects and hindering framework flexibility by silicone rubber coating. <i>Chemical Communications</i> , <b>2017</b> , 53, 7760-7763              | 5.8  | 70  |
| 27 | Comparison of the hydrothermal stability of ZIF-8 nanocrystals and polycrystalline membranes derived from zinc salt variations. <i>Materials Letters</i> , <b>2017</b> , 197, 184-187  | 3.3  | 22  |
| 26 | Enhanced permeation performance of polyether-polyamide block copolymer membranes through incorporating ZIF-8 nanocrystals. <i>Chinese Journal of Chemical Engineering</i> , <b>2017</b> , 25, 882-891  | 3.2  | 25  |
| 25 | Strict molecular sieving over electrodeposited 2D-interspace-narrowed graphene oxide membranes. <i>Nature Communications</i> , <b>2017</b> , 8, 825  | 17.4 | 69  |
| 24 | Temperature-induced formation of cellulose nanofiber film with remarkably high gas separation performance. <i>Cellulose</i> , <b>2017</b> , 24, 5649-5656  | 5.5  | 28  |
| 23 | Thin poly(ether-block-amide)/attapulgitite composite membranes with improved CO <sub>2</sub> permeance and selectivity for CO <sub>2</sub> /N <sub>2</sub> and CO <sub>2</sub> /CH <sub>4</sub> . <i>Chemical Engineering Science</i> , <b>2017</b> , 160, 236-244 | 4.4  | 41  |
| 22 | Fabrication of magnetically responsive HKUST-1/FeO composites by dry gel conversion for deep desulfurization and denitrogenation. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 321, 344-352   | 12.8 | 140 |
| 21 | ZIF-8 membranes with improved reproducibility fabricated from sputter-coated ZnO/alumina supports. <i>Chemical Engineering Science</i> , <b>2016</b> , 141, 119-124  | 4.4  | 49  |
| 20 | Preparation of poly(ether-block-amide)/attapulgitite mixed matrix membranes for CO <sub>2</sub> /N <sub>2</sub> separation. <i>Journal of Membrane Science</i> , <b>2016</b> , 500, 66-75  | 9.6  | 96  |
| 19 | Diffusion as a function of guest molecule length and functionalization in flexible metal-organic frameworks. <i>Materials Horizons</i> , <b>2016</b> , 3, 355-361  | 14.4 | 11  |

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|----|--|------|------|
| 18 | Zinc-substituted ZIF-67 nanocrystals and polycrystalline membranes for propylene/propane separation. <i>Chemical Communications</i> , <b>2016</b> , 52, 12578-12581  | 5.8  | 64   |
| 17 | Improved ZIF-8 membrane: Effect of activation procedure and determination of diffusivities of light hydrocarbons. <i>Journal of Membrane Science</i> , <b>2015</b> , 493, 88-96  | 9.6  | 70   |
| 16 | High-performance polyamide thin-film-nanocomposite reverse osmosis membranes containing hydrophobic zeolitic imidazolate framework-8. <i>Journal of Membrane Science</i> , <b>2015</b> , 476, 303-310                            | 9.6  | 301  |
| 15 | Removal of Heavy Metal Ions from Aqueous Solutions by Adsorption onto ZIF-8 Nanocrystals. <i>Chemistry Letters</i> , <b>2015</b> , 44, 758-760   | 1.7  | 34   |
| 14 | Preparation of Y <sup>3+</sup> - and La <sup>3+</sup> -doped ZIF-8 Crystals and the Fluorescence Sensing of Amines. <i>Chemistry Letters</i> , <b>2015</b> , 44, 887-889   | 1.7  | 5    |
| 13 | Molecular dynamics simulations on gate opening in ZIF-8: identification of factors for ethane and propane separation. <i>Langmuir</i> , <b>2013</b> , 29, 8865-72  | 4    | 64   |
| 12 | A two-phase segmented microfluidic technique for one-step continuous versatile preparation of zeolites. <i>Chemical Engineering Journal</i> , <b>2013</b> , 219, 78-85   | 14.7 | 28   |
| 11 | Carbon dioxide selective mixed matrix composite membrane containing ZIF-7 nano-fillers. <i>Journal of Membrane Science</i> , <b>2013</b> , 425-426, 235-242  | 9.6  | 340  |
| 10 | Effective separation of propylene/propane binary mixtures by ZIF-8 membranes. <i>Journal of Membrane Science</i> , <b>2012</b> , 390-391, 93-98  | 9.6  | 303  |
| 9  | Synthesis of ceramic hollow fiber supported zeolitic imidazolate framework-8 (ZIF-8) membranes with high hydrogen permeability. <i>Journal of Membrane Science</i> , <b>2012</b> , 421-422, 292-298                              | 9.6  | 166  |
| 8  | Tuning the crystal morphology and size of zeolitic imidazolate framework-8 in aqueous solution by surfactants. <i>CrystEngComm</i> , <b>2011</b> , 13, 6937  | 3.3  | 295  |
| 7  | Sharp separation of C <sub>2</sub> /C <sub>3</sub> hydrocarbon mixtures by zeolitic imidazolate framework-8 (ZIF-8) membranes synthesized in aqueous solutions. <i>Chemical Communications</i> , <b>2011</b> , 47, 10275-7       | 5.8  | 273  |
| 6  | Rapid synthesis of zeolitic imidazolate framework-8 (ZIF-8) nanocrystals in an aqueous system. <i>Chemical Communications</i> , <b>2011</b> , 47, 2071-3   | 5.8  | 1005 |
| 5  | Synthesis of highly c-oriented ZIF-69 membranes by secondary growth and their gas permeation properties. <i>Journal of Membrane Science</i> , <b>2011</b> , 379, 46-51   | 9.6  | 168  |
| 4  | Versatile preparation of monodisperse poly(furfuryl alcohol) and carbon hollow spheres in a simple microfluidic device. <i>Chemical Communications</i> , <b>2010</b> , 46, 3732-4  | 5.8  | 28   |
| 3  | Rapid Crystallization of Silicalite Nanocrystals in a Capillary Microreactor. <i>Chemical Engineering and Technology</i> , <b>2009</b> , 32, 732-737   | 2    | 11   |
| 2  | Preparation of Ultrafine Zeolite A Crystals with Narrow Particle Size Distribution Using a Two-Phase Liquid Segmented Microfluidic Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 8471-8477 | 3.9  | 32   |
| 1  | Preparation of uniform nano-sized zeolite A crystals in microstructured reactors using manipulated organic template-free synthesis solutions. <i>Chemical Communications</i> , <b>2009</b> , 7233-5                              | 5.8  | 36   |

