

# Yichang

## List of Publications by Citations

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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	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
52	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
51	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
50	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
49	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
48	Sharp separation of C2/C3 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
47	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
46	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
45	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
44	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, 1606999 <sup>24</sup>	24	160
43	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
42	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
41	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
40	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 <sup>58</sup>	5.8	70
39	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
38	Strict molecular sieving over electrodeposited 2D-interspacing-narrowed graphene oxide membranes. <i>Nature Communications</i> , <b>2017</b> , 8, 825	17.4	69
37	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

36	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
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	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
33	Morphological Map of ZIF-8 Crystals with Five Distinctive Shapes: Feature of Filler in Mixed-Matrix Membranes on C <sub>3</sub> H <sub>6</sub> /C <sub>3</sub> H <sub>8</sub> Separation. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3467-3473	9.6	48
32	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
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	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
29	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
28	Membrane-Based Olefin/Paraffin Separations. <i>Advanced Science</i> , <b>2020</b> , 7, 2001398	13.6	39
27	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
26	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
25	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
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	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
22	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
21	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
20	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
19	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

18	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
17	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
16	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
15	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
14	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
13	Rapid Crystallization of Silicalite Nanocrystals in a Capillary Microreactor. <i>Chemical Engineering and Technology</i> , <b>2009</b> , 32, 732-737	2	11
12	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
11	Enhanced Uptake of Iodide from Solutions by Hollow Cu-Based Adsorbents. <i>Materials</i> , <b>2018</b> , 11,	3.5	9
10	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
9	Self-assembly of fibrous ZSM-5 zeolites in the presence of sodium alginate. <i>Particuology</i> , <b>2017</b> , 33, 55-62.8		6
8	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
7	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
6	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
5	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
4	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
3	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
2	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
1	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

