

# Yichang

## List of Publications by Year in descending order

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55  
papers

6,318  
citations

117453

34  
h-index

161609

54  
g-index

55  
all docs

55  
docs citations

55  
times ranked

6928  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid synthesis of zeolitic imidazolate framework-8 (ZIF-8) nanocrystals in an aqueous system. <i>Chemical Communications</i> , 2011, 47, 2071.	2.2	1,330
2	Carbon dioxide selective mixed matrix composite membrane containing ZIF-7 nano-fillers. <i>Journal of Membrane Science</i> , 2013, 425-426, 235-242.	4.1	387
3	Effective separation of propylene/propane binary mixtures by ZIF-8 membranes. <i>Journal of Membrane Science</i> , 2012, 390-391, 93-98.	4.1	384
4	Tuning the crystal morphology and size of zeolitic imidazolate framework-8 in aqueous solution by surfactants. <i>CrystEngComm</i> , 2011, 13, 6937.	1.3	371
5	High-performance polyamide thin-film-nanocomposite reverse osmosis membranes containing hydrophobic zeolitic imidazolate framework-8. <i>Journal of Membrane Science</i> , 2015, 476, 303-310.	4.1	365
6	Unravelling surface and interfacial structures of a metal-organic framework by transmission electron microscopy. <i>Nature Materials</i> , 2017, 16, 532-536.	13.3	306
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> , 2011, 47, 10275.	2.2	303
8	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> , 2017, 29, 1606999.	11.1	229
9	Synthesis of highly c-oriented ZIF-69 membranes by secondary growth and their gas permeation properties. <i>Journal of Membrane Science</i> , 2011, 379, 46-51.	4.1	204
10	Synthesis of ceramic hollow fiber supported zeolitic imidazolate framework-8 (ZIF-8) membranes with high hydrogen permeability. <i>Journal of Membrane Science</i> , 2012, 421-422, 292-298.	4.1	187
11	Metal-organic framework nanosheets: An emerging family of multifunctional 2D materials. <i>Coordination Chemistry Reviews</i> , 2019, 395, 25-45.	9.5	184
12	Fabrication of magnetically responsive HKUST-1/Fe <sub>3</sub> O <sub>4</sub> composites by dry gel conversion for deep desulfurization and denitrogenation. <i>Journal of Hazardous Materials</i> , 2017, 321, 344-352.	6.5	165
13	Preparation of poly(ether-block-amide)/attapulgite mixed matrix membranes for CO <sub>2</sub> /N <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2016, 500, 66-75.	4.1	123
14	Enhanced C <sub>3</sub> H <sub>6</sub> /C <sub>3</sub> H <sub>8</sub> separation performance on MOF membranes through blocking defects and hindering framework flexibility by silicone rubber coating. <i>Chemical Communications</i> , 2017, 53, 7760-7763.	2.2	110
15	Strict molecular sieving over electrodeposited 2D-interspacing-narrowed graphene oxide membranes. <i>Nature Communications</i> , 2017, 8, 825.	5.8	110
16	Membrane-Based Olefin/Paraffin Separations. <i>Advanced Science</i> , 2020, 7, 2001398.	5.6	105
17	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> , 2018, 30, 3467-3473.	3.2	94
18	Improved ZIF-8 membrane: Effect of activation procedure and determination of diffusivities of light hydrocarbons. <i>Journal of Membrane Science</i> , 2015, 493, 88-96.	4.1	93

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19	ZIF-8 membranes with improved reproducibility fabricated from sputter-coated ZnO/alumina supports. <i>Chemical Engineering Science</i> , 2016, 141, 119-124.	1.9	82
20	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> , 2018, 563, 360-370.	4.1	82
21	Zinc-substituted ZIF-67 nanocrystals and polycrystalline membranes for propylene/propane separation. <i>Chemical Communications</i> , 2016, 52, 12578-12581.	2.2	81
22	Metal-organic framework adsorbents and membranes for separation applications. <i>Current Opinion in Chemical Engineering</i> , 2018, 20, 122-131.	3.8	77
23	Molecular Dynamics Simulations on Gate Opening in ZIF-8: Identification of Factors for Ethane and Propane Separation. <i>Langmuir</i> , 2013, 29, 8865-8872.	1.6	73
24	From Discrete Molecular Cages to a Network of Cages Exhibiting Enhanced CO <sub>2</sub> Adsorption Capacity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7787-7791.	7.2	66
25	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> , 2018, 179, 1-12.	1.9	66
26	Thin poly(ether-block-amide)/attapulgite 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> , 2017, 160, 236-244.	1.9	55
27	Rational matching between MOFs and polymers in mixed matrix membranes for propylene/propane separation. <i>Chemical Engineering Science</i> , 2019, 204, 151-160.	1.9	49
28	Polycrystalline metal-organic framework (MOF) membranes for molecular separations: Engineering prospects and challenges. <i>Journal of Membrane Science</i> , 2021, 640, 119802.	4.1	48
29	Improved H <sub>2</sub> /CO <sub>2</sub> separation performance on mixed-linker ZIF-7 polycrystalline membranes. <i>Chemical Engineering Science</i> , 2018, 192, 85-93.	1.9	43
30	Removal of Heavy Metal Ions from Aqueous Solutions by Adsorption onto ZIF-8 Nanocrystals. <i>Chemistry Letters</i> , 2015, 44, 758-760.	0.7	42
31	Synthesis of tubular ZIF-8 membranes for propylene/propane separation under high-pressure. <i>Journal of Membrane Science</i> , 2020, 595, 117503.	4.1	41
32	Preparation of uniform nano-sized zeolite A crystals in microstructured reactors using manipulated organic template-free synthesis solutions. <i>Chemical Communications</i> , 2009, , 7233.	2.2	39
33	Temperature-induced formation of cellulose nanofiber film with remarkably high gas separation performance. <i>Cellulose</i> , 2017, 24, 5649-5656.	2.4	35
34	Improved propylene/propane separation performance under high temperature and pressures on in-situ ligand-doped ZIF-8 membranes. <i>Journal of Membrane Science</i> , 2021, 617, 118655.	4.1	35
35	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> , 2009, 48, 8471-8477.	1.8	34
36	Enhanced permeation performance of polyether-polyamide block copolymer membranes through incorporating ZIF-8 nanocrystals. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 882-891.	1.7	34

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37	A two-phase segmented microfluidic technique for one-step continuous versatile preparation of zeolites. <i>Chemical Engineering Journal</i> , 2013, 219, 78-85.	6.6	33
38	Comparison of the hydrothermal stability of ZIF-8 nanocrystals and polycrystalline membranes derived from zinc salt variations. <i>Materials Letters</i> , 2017, 197, 184-187.	1.3	32
39	Versatile preparation of monodisperse poly(furfuryl alcohol) and carbon hollow spheres in a simple microfluidic device. <i>Chemical Communications</i> , 2010, 46, 3732.	2.2	30
40	From Discrete Molecular Cages to a Network of Cages Exhibiting Enhanced CO <sub>2</sub> Adsorption Capacity. <i>Angewandte Chemie</i> , 2017, 129, 7895-7899.	1.6	24
41	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> , 2020, 7, 223-228.	6.4	21
42	Diffusion as a function of guest molecule length and functionalization in flexible metal-organic frameworks. <i>Materials Horizons</i> , 2016, 3, 355-361.	6.4	19
43	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> , 2021, 636, 119613.	4.1	17
44	Improved dispersion performance and interfacial compatibility of covalent-grafted MOFs in mixed-matrix membranes for gas separation. <i>Green Chemical Engineering</i> , 2021, 2, 86-95.	3.3	15
45	Enhanced Uptake of Iodide from Solutions by Hollow Cu-Based Adsorbents. <i>Materials</i> , 2018, 11, 769.	1.3	13
46	Improved CO <sub>2</sub> / CH <sub>4</sub> separation performance of mixed-matrix membrane by adding ZIF-7 nanocrystals. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50424.	1.3	13
47	Synthesis and properties of magnetic zeolite with good magnetic stability from fly ash. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 87, 408-418.	1.1	12
48	Rapid Crystallization of Silicalite Nanocrystals in a Capillary Microreactor. <i>Chemical Engineering and Technology</i> , 2009, 32, 732-737.	0.9	11
49	Highly steam-stable CHA-type zeolite imidazole framework ZIF-302 membrane for hydrogen separation. <i>Separation and Purification Technology</i> , 2022, 281, 119875.	3.9	11
50	Highly durable ZIF-8 tubular membranes via precursor-assisted processing for propylene/propane separation. <i>Journal of Membrane Science</i> , 2022, 660, 120813.	4.1	10
51	High-performance ZIF-302 mixed-matrix membranes for efficient CO <sub>2</sub> capture. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 1020-1027.	1.2	8
52	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> , 2015, 44, 887-889.	0.7	7
53	Self-assembly of fibrous ZSM-5 zeolites in the presence of sodium alginate. <i>Particuology</i> , 2017, 33, 55-62.	2.0	7
54	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> , 2018, 91, 758-763.	0.1	2

