Yichang

List of Publications by Year in descending order

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55 papers	6,318 citations	117625 34 h-index	161849 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. Chemical Communications, 2011, 47, 2071.	4.1	1,330
2	Carbon dioxide selective mixed matrix composite membrane containing ZIF-7 nano-fillers. Journal of Membrane Science, 2013, 425-426, 235-242.	8.2	387
3	Effective separation of propylene/propane binary mixtures by ZIF-8 membranes. Journal of Membrane Science, 2012, 390-391, 93-98.	8.2	384
4	Tuning the crystal morphology and size of zeolitic imidazolate framework-8 in aqueous solution by surfactants. CrystEngComm, 2011, 13, 6937.	2.6	371
5	High-performance polyamide thin-film-nanocomposite reverse osmosis membranes containing hydrophobic zeolitic imidazolate framework-8. Journal of Membrane Science, 2015, 476, 303-310.	8.2	365
6	Unravelling surface and interfacial structures of a metalâ€“organic framework by transmission electron microscopy. Nature Materials, 2017, 16, 532-536.	27.5	306
7	Sharp separation of C2/C3 hydrocarbon mixtures by zeolitic imidazolate framework-8 (ZIF-8) membranes synthesized in aqueous solutions. Chemical Communications, 2011, 47, 10275.	4.1	303
8	Aminoâ€Functionalized ZIFâ€7 Nanocrystals: Improved Intrinsic Separation Ability and Interfacial Compatibility in Mixedâ€Matrix Membranes for CO₂/CH₄ Separation. Advanced Materials, 2017, 29, 1606999.	21.0	229
9	Synthesis of highly c-oriented ZIF-69 membranes by secondary growth and their gas permeation properties. Journal of Membrane Science, 2011, 379, 46-51.	8.2	204
10	Synthesis of ceramic hollow fiber supported zeolitic imidazolate framework-8 (ZIF-8) membranes with high hydrogen permeability. Journal of Membrane Science, 2012, 421-422, 292-298.	8.2	187
11	Metal-organic framework nanosheets: An emerging family of multifunctional 2D materials. Coordination Chemistry Reviews, 2019, 395, 25-45.	18.8	184
12	Fabrication of magnetically responsive HKUST-1/Fe3O4 composites by dry gel conversion for deep desulfurization and denitrogenation. Journal of Hazardous Materials, 2017, 321, 344-352.	12.4	165
13	Preparation of poly(ether-block-amide)/attapulgite mixed matrix membranes for CO2/N2 separation. Journal of Membrane Science, 2016, 500, 66-75.	8.2	123
14	Enhanced C₃H₆/C₃H₈ separation performance on MOF membranes through blocking defects and hindering framework flexibility by silicone rubber coating. Chemical Communications, 2017, 53, 7760-7763.	4.1	110
15	Strict molecular sieving over electrodeposited 2D-interspacing-narrowed graphene oxide membranes. Nature Communications, 2017, 8, 825.	12.8	110
16	Membraneâ€Based Olefin/Paraffin Separations. Advanced Science, 2020, 7, 2001398.	11.2	105
17	Morphological Map of ZIF-8 Crystals with Five Distinctive Shapes: Feature of Filler in Mixed-Matrix Membranes on C₃H₆/C₃H₈ Separation. Chemistry of Materials, 2018, 30, 3467-3473.	6.7	94
18	Improved ZIF-8 membrane: Effect of activation procedure and determination of diffusivities of light hydrocarbons. Journal of Membrane Science, 2015, 493, 88-96.	8.2	93

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19	ZIF-8 membranes with improved reproducibility fabricated from sputter-coated ZnO/alumina supports. Chemical Engineering Science, 2016, 141, 119-124.	3.8	82
20	Enhanced CO2/CH4 separation performance of mixed-matrix membranes through dispersion of sorption-selective MOF nanocrystals. Journal of Membrane Science, 2018, 563, 360-370.	8.2	82
21	Zinc-substituted ZIF-67 nanocrystals and polycrystalline membranes for propylene/propane separation. Chemical Communications, 2016, 52, 12578-12581.	4.1	81
22	Metal-organic framework adsorbents and membranes for separation applications. Current Opinion in Chemical Engineering, 2018, 20, 122-131.	7.8	77
23	Molecular Dynamics Simulations on Gate Opening in ZIF-8: Identification of Factors for Ethane and Propane Separation. Langmuir, 2013, 29, 8865-8872.	3.5	73
24	From Discrete Molecular Cages to a Network of Cages Exhibiting Enhanced CO₂ Adsorption Capacity. Angewandte Chemie - International Edition, 2017, 56, 7787-7791.	13.8	66
25	Enhanced C3H6/C3H8 separation performance in poly(vinyl acetate) membrane blended with ZIF-8 nanocrystals. Chemical Engineering Science, 2018, 179, 1-12.	3.8	66
26	Thin poly(ether-block-amide)/attapulgite composite membranes with improved CO 2 permeance and selectivity for CO 2 /N 2 and CO 2 /CH 4. Chemical Engineering Science, 2017, 160, 236-244.	3.8	55
27	Rational matching between MOFs and polymers in mixed matrix membranes for propylene/propane separation. Chemical Engineering Science, 2019, 204, 151-160.	3.8	49
28	Polycrystalline metal-organic framework (MOF) membranes for molecular separations: Engineering prospects and challenges. Journal of Membrane Science, 2021, 640, 119802.	8.2	48
29	Improved H2/CO2 separation performance on mixed-linker ZIF-7 polycrystalline membranes. Chemical Engineering Science, 2018, 192, 85-93.	3.8	43
30	Removal of Heavy Metal Ions from Aqueous Solutions by Adsorption onto ZIF-8 Nanocrystals. Chemistry Letters, 2015, 44, 758-760.	1.3	42
31	Synthesis of tubular ZIF-8 membranes for propylene/propane separation under high-pressure. Journal of Membrane Science, 2020, 595, 117503.	8.2	41
32	Preparation of uniform nano-sized zeolite A crystals in microstructured reactors using manipulated organic template-free synthesis solutions. Chemical Communications, 2009, , 7233.	4.1	39
33	Temperature-induced formation of cellulose nanofiber film with remarkably high gas separation performance. Cellulose, 2017, 24, 5649-5656.	4.9	35
34	Improved propylene/propane separation performance under high temperature and pressures on in-situ ligand-doped ZIF-8 membranes. Journal of Membrane Science, 2021, 617, 118655.	8.2	35
35	Preparation of Ultrafine Zeolite A Crystals with Narrow Particle Size Distribution Using a Two-Phase Liquid Segmented Microfluidic Reactor. Industrial & Engineering Chemistry Research, 2009, 48, 8471-8477.	3.7	34
36	Enhanced permeation performance of polyether-polyamide block copolymer membranes through incorporating ZIF-8 nanocrystals. Chinese Journal of Chemical Engineering, 2017, 25, 882-891.	3.5	34

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37	A two-phase segmented microfluidic technique for one-step continuous versatile preparation of zeolites. Chemical Engineering Journal, 2013, 219, 78-85.	12.7	33
38	Comparison of the hydrothermal stability of ZIF-8 nanocrystals and polycrystalline membranes derived from zinc salt variations. Materials Letters, 2017, 197, 184-187.	2.6	32
39	Versatile preparation of monodisperse poly(furfuryl alcohol) and carbon hollow spheres in a simple microfluidic device. Chemical Communications, 2010, 46, 3732.	4.1	30
40	From Discrete Molecular Cages to a Network of Cages Exhibiting Enhanced CO₂ Adsorption Capacity. Angewandte Chemie, 2017, 129, 7895-7899.	2.0	24
41	Locking of phase transition in MOF ZIF-7: improved selectivity in mixed-matrix membranes for O₂/N₂ separation. Materials Horizons, 2020, 7, 223-228.	12.2	21
42	Diffusion as a function of guest molecule length and functionalization in flexible metalâ€“organic frameworks. Materials Horizons, 2016, 3, 355-361.	12.2	19
43	Improved C3H6/C3H8 separation performance on ZIF-8 membranes through enhancing PDMS contact-dependent confinement effect. Journal of Membrane Science, 2021, 636, 119613.	8.2	17
44	Improved dispersion performance and interfacial compatibility of covalent-grafted MOFs in mixed-matrix membranes for gas separation. Green Chemical Engineering, 2021, 2, 86-95.	6.3	15
45	Enhanced Uptake of Iodide from Solutions by Hollow Cu-Based Adsorbents. Materials, 2018, 11, 769.	2.9	13
46	Improved CO 2 / CH 4 separation performance of mixedâ€matrix membrane by adding ZIFâ€7â€NH 2 nanocrystals. Journal of Applied Polymer Science, 2021, 138, 50424.	2.6	13
47	Synthesis and properties of magnetic zeolite with good magnetic stability from fly ash. Journal of Sol-Gel Science and Technology, 2018, 87, 408-418.	2.4	12
48	Rapid Crystallization of Silicalite Nanocrystals in a Capillary Microreactor. Chemical Engineering and Technology, 2009, 32, 732-737.	1.5	11
49	Highly steam-stable CHA-type zeolite imidazole framework ZIF-302 membrane for hydrogen separation. Separation and Purification Technology, 2022, 281, 119875.	7.9	11
50	Highly durable ZIF-8 tubular membranes via precursor-assisted processing for propylene/propane separation. Journal of Membrane Science, 2022, 660, 120813.	8.2	10
51	High-performance ZIF-302 mixed-matrix membranes for efficient CO2 capture. Korean Journal of Chemical Engineering, 2022, 39, 1020-1027.	2.7	8
52	Preparation of Y3+- and La3+-doped ZIF-8 Crystals and the Fluorescence Sensing of Amines. Chemistry Letters, 2015, 44, 887-889.	1.3	7
53	Self-assembly of fibrous ZSM-5 zeolites in the presence of sodium alginate. Particuology, 2017, 33, 55-62.	3.6	7
54	Mesoporous Zirconium Phosphonate Hybrid Bentonite as a Novel Efficient Catalyst for the Removal of Trace Olefins from Aromatics. Russian Journal of Applied Chemistry, 2018, 91, 758-763.	0.5	2

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