

Chen Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2428484/publications.pdf>

Version: 2024-02-01

38
papers

4,853
citations

201385

27
h-index

360668

35
g-index

41
all docs

41
docs citations

41
times ranked

4637
citing authors

#	ARTICLE	IF	CITATIONS
1	High-temperature hydrogen/propane separations in asymmetric carbon molecular sieve hollow fiber membranes. <i>Journal of Membrane Science</i> , 2022, 642, 119978.	4.1	13
2	Carbon molecular sieve hollow fiber membranes derived from dip-coated precursor hollow fibers comprising nanoparticles. <i>Journal of Membrane Science</i> , 2022, 649, 120279.	4.1	16
3	Petrified Hollow Fiber Membranes with Hierarchical Pores. , 2022, 4, 938-943.		0
4	Titanium Silicalite-1 Nanosheet-Supported Platinum for Non-oxidative Ethane Dehydrogenation. <i>ACS Catalysis</i> , 2021, 11, 9970-9985.	5.5	30
5	Gas Separation via Hybrid Metal-Organic Framework/Polymer Membranes. <i>Trends in Chemistry</i> , 2020, 2, 254-269.	4.4	71
6	Hydrocarbon separations by glassy polymer membranes. <i>Journal of Polymer Science</i> , 2020, 58, 2482-2517.	2.0	29
7	Highly permeable carbon molecular sieve membranes for efficient CO ₂ /N ₂ separation at ambient and subambient temperatures. <i>Journal of Membrane Science</i> , 2019, 583, 9-15.	4.1	33
8	Ultra-thin skin carbon hollow fiber membranes for sustainable molecular separations. <i>AIChE Journal</i> , 2019, 65, e16611.	1.8	36
9	New insights into structural evolution in carbon molecular sieve membranes during pyrolysis. <i>Carbon</i> , 2019, 141, 238-246.	5.4	109
10	Simultaneously tuning dense skin and porous substrate of asymmetric hollow fiber membranes for efficient purification of aggressive natural gas. <i>AIChE Journal</i> , 2019, 65, 1269-1280.	1.8	20
11	Mixed matrix formulations with MOF molecular sieving for key energy-intensive separations. <i>Nature Materials</i> , 2018, 17, 283-289.	13.3	449
12	Next generation membranes using tailored carbon. <i>Carbon</i> , 2018, 127, 688-698.	5.4	92
13	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H ₂ S and CO ₂ from Natural Gas. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14811-14816.	7.2	176
14	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H ₂ S and CO ₂ from Natural Gas. <i>Angewandte Chemie</i> , 2018, 130, 15027-15032.	1.6	17
15	Composite Carbon Molecular Sieve Hollow Fiber Membranes: Resisting Support Densification via Silica Particle Stabilization. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16051-16058.	1.8	19
16	Enhanced CO ₂ /CH ₄ Separation Performance of a Mixed Matrix Membrane Based on Tailored MOF-Polymer Formulations. <i>Advanced Science</i> , 2018, 5, 1800982.	5.6	88
17	Zeolite-like MOF nanocrystals incorporated 6FDA-polyimide mixed-matrix membranes for CO ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2018, 565, 186-193.	4.1	64
18	Materials for next-generation molecularly selective synthetic membranes. <i>Nature Materials</i> , 2017, 16, 289-297.	13.3	831

#	ARTICLE	IF	CITATIONS
19	Carbon molecular sieve structure development and membrane performance relationships. Carbon, 2017, 115, 237-248.	5.4	190
20	Purification of Aggressive Supercritical Natural Gas Using Carbon Molecular Sieve Hollow Fiber Membranes. Industrial & Engineering Chemistry Research, 2017, 56, 10482-10490.	1.8	36
21	Ultrasensitive Carbon Molecular Sieve Membranes with Tailored Synergistic Sorption Selective Properties. Advanced Materials, 2017, 29, 1701631.	11.1	129
22	Relationship between mixed and pure gas self-diffusion for ethane and ethene in ZIF-8/6FDA-DAM mixed-matrix membrane by pulsed field gradient NMR. Journal of Membrane Science, 2016, 499, 12-19.	4.1	41
23	Alkane and Alkene Separation by Membrane Operations. , 2016, , 55-56.		0
24	Relationship between long-range diffusion and diffusion in the ZIF-8 and polymer phases of a mixed-matrix membrane by high field NMR diffusometry. Journal of Membrane Science, 2015, 477, 123-130.	4.1	32
25	Thin-skinned intrinsically defect-free asymmetric mono-esterified hollow fiber precursors for crosslinkable polyimide gas separation membranes. Journal of Membrane Science, 2015, 493, 252-262.	4.1	36
26	Tailoring the Transport Properties of Zeolitic Imidazolate Frameworks by Post-Synthetic Thermal Modification. ACS Applied Materials & Interfaces, 2015, 7, 23407-23411.	4.0	26
27	Zeolitic Imidazolate Framework-Enabled Membranes: Challenges and Opportunities. Journal of Physical Chemistry Letters, 2015, 6, 3841-3849.	2.1	115
28	Alkane and Alkene Separation by Membrane Operations. , 2014, , 1-2.		0
29	Formation of defect-free 6FDA-DAM asymmetric hollow fiber membranes for gas separations. Journal of Membrane Science, 2014, 459, 223-232.	4.1	60
30	Highly scalable ZIF-8 based mixed-matrix hollow fiber membranes for advanced hydrocarbon separations. AIChE Journal, 2014, 60, 2625-2635.	1.8	132
31	Crystal-Size-Dependent Structural Transitions in Nanoporous Crystals: Adsorption-Induced Transitions in ZIF-8. Journal of Physical Chemistry C, 2014, 118, 20727-20733.	1.5	145
32	Investigating the Intrinsic Ethanol/Water Separation Capability of ZIF-8: An Adsorption and Diffusion Study. Journal of Physical Chemistry C, 2013, 117, 7214-7225.	1.5	153
33	Exploring the Framework Hydrophobicity and Flexibility of ZIF-8: From Biofuel Recovery to Hydrocarbon Separations. Journal of Physical Chemistry Letters, 2013, 4, 3618-3622.	2.1	277
34	Alcohol and water adsorption in zeolitic imidazolate frameworks. Chemical Communications, 2013, 49, 3245.	2.2	278
35	Membrane-based ethylene/ethane separation: The upper bound and beyond. AIChE Journal, 2013, 59, 3475-3489.	1.8	156
36	Unexpected Molecular Sieving Properties of Zeolitic Imidazolate Framework-8. Journal of Physical Chemistry Letters, 2012, 3, 2130-2134.	2.1	530

#	ARTICLE	IF	CITATIONS
37	High performance ZIF-8/6FDA-DAM mixed matrix membrane for propylene/propane separations. Journal of Membrane Science, 2012, 389, 34-42.	4.1	418
38	Effects of Silica Support Properties on the Performance of Immobilized Metallocene Catalysts for Ethylene Polymerization. Macromolecular Reaction Engineering, 0, , 2200020.	0.9	0