

# Fengyi Zhang

## List of Publications by Year in descending order

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22  
papers

733  
citations

686830

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794141

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docs citations

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times ranked

1031  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable Formation of Diamine-Appended Metal-Organic Framework Hollow Fiber Sorbents for Postcombustion CO <sub>2</sub> Capture. <i>Jacs Au</i> , 2022, 2, 1350-1358.	3.6	14
2	CO <sub>2</sub> Capture Using PIM-1 Hollow Fiber Sorbents with Enhanced Performance by PEI Infusion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 12709-12718.	1.8	7
3	Vapor-Phase-Infiltrated AlO <sub>x</sub> /PIM-1 Hybrid Scaffolds as Solution-Processable Amine Supports for CO <sub>2</sub> Adsorption. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4460-4469.	2.0	7
4	Zeolite-like performance for xylene isomer purification using polymer-derived carbon membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	14
5	Manufacturing Nanoporous Materials for Energy-Efficient Separations. , 2020, , 33-81.		8
6	A guide to solution-based additive manufacturing of polymeric structures: Ink design, porosity manipulation, and printing strategy. <i>Journal of Advanced Manufacturing and Processing</i> , 2020, 2, .	1.4	12
7	Relationship between ethane and ethylene diffusion inside ZIF-11 crystals confined in polymers to form mixed-matrix membranes. <i>Journal of Membrane Science</i> , 2020, 593, 117440.	4.1	23
8	Controlling wettability, wet strength, and fluid transport selectivity of nanopaper with atomic layer deposited (ALD) sub-nanometer metal oxide coatings. <i>Nanoscale Advances</i> , 2020, 2, 356-367.	2.2	13
9	Flux Equations for Osmotically Moderated Sorption-Diffusion Transport in Rigid Microporous Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 5412-5423.	1.8	12
10	Ethylene diffusion in crystals of zeolitic imidazole Framework-11 embedded in polymers to form mixed-matrix membranes. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 163-170.	2.2	17
11	Vapor Phase Infiltration of Metal Oxides into Nanoporous Polymers for Organic Solvent Separation Membranes. <i>Chemistry of Materials</i> , 2019, 31, 5509-5518.	3.2	109
12	Battery-free, fully implantable optofluidic cuff system for wireless optogenetic and pharmacological neuromodulation of peripheral nerves. <i>Science Advances</i> , 2019, 5, eaaw5296.	4.7	127
13	Titelbild: Creation of Well-Defined Mid-Sized Micropores in Carbon Molecular Sieve Membranes ( <i>Angew. Chem.</i> 38/2019). <i>Angewandte Chemie</i> , 2019, 131, 13297-13297.	1.6	1
14	Synthesizing New Hybrid Zeolitic Imidazolate Frameworks by Controlled Demolition and Reconstruction. , 2019, 1, 447-451.		7
15	Anomalous Relationship between Molecular Size and Diffusivity of Ethane and Ethylene inside Crystals of Zeolitic Imidazolate Framework-11. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16813-16822.	1.5	15
16	Creation of Well-Defined Mid-Sized Micropores in Carbon Molecular Sieve Membranes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13259-13265.	7.2	75
17	Creation of Well-Defined Mid-Sized Micropores in Carbon Molecular Sieve Membranes. <i>Angewandte Chemie</i> , 2019, 131, 13393-13399.	1.6	30
18	Molecularly Mixed Composite Membranes for Advanced Separation Processes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2638-2643.	7.2	86

#	ARTICLE	IF	CITATIONS
19	Molecularly Mixed Composite Membranes for Advanced Separation Processes. <i>Angewandte Chemie</i> , 2019, 131, 2664-2669.	1.6	29
20	Critical Comparison of Structured Contactors for Adsorption-Based Gas Separations. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2018, 9, 129-152.	3.3	42
21	Solution-Based 3D Printing of Polymers of Intrinsic Microporosity. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800274.	2.0	40
22	Evidence for entropic diffusion selection of xylene isomers in carbon molecular sieve membranes. <i>Journal of Membrane Science</i> , 2018, 564, 404-414.	4.1	45