Fengyi Zhang

List of Publications by Year
in descending order

22	733	686830 13	794141 19
papers	citations	h-index	g-index

23	23	23	1031
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Battery-free, fully implantable optofluidic cuff system for wireless optogenetic and pharmacological neuromodulation of peripheral nerves. Science Advances, 2019, 5, eaaw5296.	4.7	127
2	Vapor Phase Infiltration of Metal Oxides into Nanoporous Polymers for Organic Solvent Separation Membranes. Chemistry of Materials, 2019, 31, 5509-5518.	3.2	109
3	Molecularly Mixed Composite Membranes for Advanced Separation Processes. Angewandte Chemie - International Edition, 2019, 58, 2638-2643.	7.2	86
4	Creation of Wellâ€Defined â€œMidâ€Sizedâ€•Micropores in Carbon Molecular Sieve Membranes. Angewandte Chemie - International Edition, 2019, 58, 13259-13265.	7.2	75
5	Evidence for entropic diffusion selection of xylene isomers in carbon molecular sieve membranes. Journal of Membrane Science, 2018, 564, 404-414.	4.1	45
6	Critical Comparison of Structured Contactors for Adsorption-Based Gas Separations. Annual Review of Chemical and Biomolecular Engineering, 2018, 9, 129-152.	3.3	42
7	Solutionâ€Based 3D Printing of Polymers of Intrinsic Microporosity. Macromolecular Rapid Communications, 2018, 39, e1800274.	2.0	40
8	Creation of Wellâ€Defined â€œMidâ€Sizedâ€•Micropores in Carbon Molecular Sieve Membranes. Angewandte Chemie, 2019, 131, 13393-13399.	1.6	30
9	Molecularly Mixed Composite Membranes for Advanced Separation Processes. Angewandte Chemie, 2019, 131, 2664-2669.	1.6	29
10	Relationship between ethane and ethylene diffusion inside ZIF-11 crystals confined in polymers to form mixed-matrix membranes. Journal of Membrane Science, 2020, 593, 117440.	4.1	23
11	Ethylene diffusion in crystals of zeolitic imidazole Framework-11 embedded in polymers to form mixed-matrix membranes. Microporous and Mesoporous Materials, 2019, 274, 163-170.	2.2	17
12	Anomalous Relationship between Molecular Size and Diffusivity of Ethane and Ethylene inside Crystals of Zeolitic Imidazolate Framework-11. Journal of Physical Chemistry C, 2019, 123, 16813-16822.	1.5	15
13	Zeolite-like performance for xylene isomer purification using polymer-derived carbon membranes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	14
14	Scalable Formation of Diamine-Appended Metalâ€“Organic Framework Hollow Fiber Sorbents for Postcombustion CO₂ Capture. Jacs Au, 2022, 2, 1350-1358.	3.6	14
15	Controlling wettability, wet strength, and fluid transport selectivity of nanopaper with atomic layer deposited (ALD) sub-nanometer metal oxide coatings. Nanoscale Advances, 2020, 2, 356-367.	2.2	13
16	A guide to solutionâ€based additive manufacturing of polymeric structures: Ink design, porosity manipulation, and printing strategy. Journal of Advanced Manufacturing and Processing, 2020, 2, .	1.4	12
17	Flux Equations for Osmotically Moderated Sorptionâ€“Diffusion Transport in Rigid Microporous Membranes. Industrial & Engineering Chemistry Research, 2020, 59, 5412-5423.	1.8	12
18	Manufacturing Nanoporous Materials for Energy-Efficient Separations. , 2020, , 33-81.		8

#	Article	IF	Citations
19	Synthesizing New Hybrid Zeolitic Imidazolate Frameworks by Controlled Demolition and Reconstruction. , 2019, 1, 447-451.		7
20	CO₂ Capture Using PIM-1 Hollow Fiber Sorbents with Enhanced Performance by PEI Infusion. Industrial & Engineering Chemistry Research, 2021, 60, 12709-12718.	1.8	7
21	Vapor-Phase-Infiltrated AlO_x/PIM-1 â€œHybrid Scaffoldsâ€•as Solution-Processable Amine Supports for CO₂ Adsorption. ACS Applied Polymer Materials, 2021, 3, 4460-4469.	2.0	7
22	Titelbild: Creation of Wellâ€Defined â€œMidâ€Sizedâ€•Micropores in Carbon Molecular Sieve Membranes (Angew. Chem. 38/2019). Angewandte Chemie, 2019, 131, 13297-13297.	1.6	1