

# Yanfeng Zhang

## List of Publications by Year in descending order

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69  
papers

2,356  
citations

218592

26  
h-index

214721

47  
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69  
all docs

69  
docs citations

69  
times ranked

2005  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas permeability properties of Matrimid® membranes containing the metal-organic framework Cu-BPY-HFS. <i>Journal of Membrane Science</i> , 2008, 313, 170-181.	4.1	337
2	Mixed-matrix membranes composed of Matrimid® and mesoporous ZSM-5 nanoparticles. <i>Journal of Membrane Science</i> , 2008, 325, 28-39.	4.1	171
3	A three-component mixed-matrix membrane with enhanced CO <sub>2</sub> separation properties based on zeolites and ionic liquid materials. <i>Journal of Membrane Science</i> , 2010, 350, 117-123.	4.1	159
4	Strict molecular sieving over electrodeposited 2D-interspacing-narrowed graphene oxide membranes. <i>Nature Communications</i> , 2017, 8, 825.	5.8	110
5	Scale-up of SAPO-34 membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Journal of Membrane Science</i> , 2010, 352, 7-13.	4.1	97
6	Template removal from SAPO-34 crystals and membranes. <i>Journal of Membrane Science</i> , 2010, 363, 29-35.	4.1	85
7	Concentration polarization in SAPO-34 membranes at high pressures. <i>Journal of Membrane Science</i> , 2009, 335, 32-36.	4.1	83
8	Blocking defects in SAPO-34 membranes with cyclodextrin. <i>Journal of Membrane Science</i> , 2010, 358, 7-12.	4.1	64
9	Sharp molecular-sieving of alcohol-water mixtures over phenyldiboronic acid pillared graphene oxide framework (GOF) hybrid membrane. <i>Chemical Communications</i> , 2015, 51, 7345-7348.	2.2	62
10	Ultrafast synthesis of thin all-silica DDR zeolite membranes by microwave heating. <i>Journal of Membrane Science</i> , 2019, 572, 567-579.	4.1	58
11	Optimized rapid thermal processing for the template removal of SAPO-34 zeolite membranes. <i>Journal of Membrane Science</i> , 2018, 552, 13-21.	4.1	55
12	Efficient dehydration of the organic solvents through graphene oxide (GO)/ceramic composite membranes. <i>RSC Advances</i> , 2014, 4, 52012-52015.	1.7	54
13	Gas Permeability Properties of Mixed-Matrix Matrimid Membranes Containing a Carbon Aerogel: A Material with Both Micropores and Mesopores. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 2794-2802.	1.8	50
14	Solvent-free synthesis of SAPO-34 nanocrystals with reduced template consumption for methanol-to-olefins process. <i>Applied Catalysis A: General</i> , 2017, 531, 203-211.	2.2	49
15	Synthesis of high performance SAPO-34 zeolite membrane by a novel two-step hydrothermal synthesis-dry gel conversion method. <i>Microporous and Mesoporous Materials</i> , 2016, 225, 261-271.	2.2	46
16	Ultrafast synthesis of thin SAPO-34 zeolite membrane by oil-bath heating. <i>Microporous and Mesoporous Materials</i> , 2017, 241, 392-399.	2.2	46
17	Spatially resolved gas permeation through SAPO-34 membranes. <i>Journal of Membrane Science</i> , 2012, 409-410, 212-221.	4.1	43
18	Synthesis of small crystal polycrystalline mordenite membrane. <i>Journal of Membrane Science</i> , 2002, 210, 361-368.	4.1	39

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19	High performance SSZ-13 membranes prepared at low temperature. <i>Journal of Membrane Science</i> , 2020, 603, 118023.	4.1	37
20	Fast synthesis of thin high silica SSZ-13 zeolite membrane using oil-bath heating. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 23107-23119.	3.8	36
21	Fast capture of methyl-dyes over hierarchical amino-Co <sub>0.3</sub> Ni <sub>0.7</sub> Fe <sub>2</sub> O <sub>4</sub> @SiO <sub>2</sub> nanofibrous membranes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22000-22004.	5.2	34
22	Synthesis and characterization of all-silica DDR zeolite by microwave heating. <i>Microporous and Mesoporous Materials</i> , 2016, 219, 103-111.	2.2	32
23	Vapor separation of methanol-dimethyl carbonate mixture on SAPO-34 zeolite membrane. <i>Journal of Membrane Science</i> , 2018, 565, 311-321.	4.1	32
24	Applicability of enzyme-responsive mesoporous silica supports capped with bridged silsesquioxane for colon-specific drug delivery. <i>Microporous and Mesoporous Materials</i> , 2014, 184, 83-89.	2.2	30
25	Synthesis of thin SAPO-34 zeolite membranes in concentrated gel. <i>Journal of Membrane Science</i> , 2020, 612, 118451.	4.1	28
26	Large eddy simulation of the separated flow transition on the suction surface of a high subsonic compressor airfoil. <i>Physics of Fluids</i> , 2020, 32, .	1.6	28
27	Mild template removal of SAPO-34 zeolite membranes in wet ozone environment. <i>Separation and Purification Technology</i> , 2019, 228, 115758.	3.9	27
28	Rapid capture of Ponceau S via a hierarchical organic-inorganic hybrid nanofibrous membrane. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5423-5427.	5.2	24
29	Fast synthesis of thin all-silica DDR zeolite membranes with inorganic base as mineralizing agent for CO <sub>2</sub> -CH <sub>4</sub> separation. <i>Separation and Purification Technology</i> , 2020, 253, 117505.	3.9	24
30	Efficient synthesis of thin SSZ-13 membranes by gel-less method. <i>Journal of Membrane Science</i> , 2021, 620, 118920.	4.1	24
31	Fast synthesis of thin SSZ-13 membranes by a hot-dipping method. <i>Journal of Membrane Science</i> , 2021, 629, 119297.	4.1	23
32	Fast synthesis of submicron all-silica CHA zeolite particles using a seeding method. <i>RSC Advances</i> , 2015, 5, 27087-27090.	1.7	21
33	Realizing uniform dispersion of MnO <sub>2</sub> with the post-synthetic modification of metal-organic frameworks (MOFs) for advanced lithium ion battery anodes. <i>Dalton Transactions</i> , 2018, 47, 13657-13667.	1.6	20
34	Rapid synthesis and characterization of DD3R zeolite with (NH <sub>4</sub> ) <sub>2</sub> SiF <sub>6</sub> as silica source. <i>Microporous and Mesoporous Materials</i> , 2016, 225, 312-322.	2.2	19
35	Unsteady effects of periodic wake passing frequency on aerodynamic performance of ultra-high-lift low pressure turbine cascades. <i>Physics of Fluids</i> , 2019, 31, .	1.6	19
36	Ultrafast microwave synthesis of all-silica DDR zeolite. <i>Microporous and Mesoporous Materials</i> , 2016, 228, 54-58.	2.2	18

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37	Synthesis of all-silica DDR zeolite in an environment-friendly way. <i>Microporous and Mesoporous Materials</i> , 2017, 239, 34-39.	2.2	18
38	Fast synthesis of thin all-silica DDR zeolite membranes by co-template strategy. <i>Microporous and Mesoporous Materials</i> , 2020, 298, 110091.	2.2	18
39	Preparation and characterization of <i>S</i> -silicalite-1/PDMS surface sieving pervaporation membrane for separation of ethanol/water mixture. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	17
40	Dual-Role Membrane as NH <sub>3</sub> Permselective Reactor and Azeotrope Separator in Urea Alcoholysis. <i>ACS Central Science</i> , 2019, 5, 1834-1843.	5.3	17
41	Fast synthesis of thin Silicalite-1 zeolite membranes at low temperature. <i>Journal of Membrane Science</i> , 2020, 611, 118361.	4.1	16
42	Reproducible synthesis of all-silica CHA zeolite membranes in a homogeneous mother liquor. <i>Separation and Purification Technology</i> , 2021, 274, 119104.	3.9	16
43	Numerical investigation of distributed roughness effects on separated flow transition over a highly loaded compressor blade. <i>Physics of Fluids</i> , 2021, 33, .	1.6	14
44	Synthesis and characterization of a novel type of mixed matrix membrane: surface sieving membrane. <i>RSC Advances</i> , 2014, 4, 10140.	1.7	13
45	Fine control of crystal morphologies of all-silica DDR in ethylenediamine-free gel with inorganic base as mineralizing agent. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109596.	2.2	13
46	Fast synthesis of hierarchical CHA/AEI intergrowth zeolite with ammonium salts as mineralizing agent and its application for MTO process. <i>Chemical Papers</i> , 2019, 73, 221-237.	1.0	13
47	Thin SAPO-34 zeolite membranes prepared by ball-milled seeds. <i>Separation and Purification Technology</i> , 2021, 274, 118975.	3.9	12
48	Effect of Tip Clearance on the Aeroelastic Stability of a Wide-Chord Fan Rotor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020, 142, .	0.5	12
49	Three-component mixed matrix organic/inorganic hybrid membranes for pervaporation separation of ethanol-water mixture. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	11
50	Seeded synthesis of all-silica CHA zeolites in diluted mother liquor. <i>Microporous and Mesoporous Materials</i> , 2021, 316, 110914.	2.2	11
51	Inhibiting crystal swelling in MFI zeolite membranes. <i>Journal of Membrane Science</i> , 2010, 357, 54-61.	4.1	9
52	Numerical investigation of a highly loaded centrifugal compressor stage with a tandem bladed impeller. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2018, 232, 240-253.	0.8	9
53	Effects of periodic wakes on the endwall secondary flow in high-lift low-pressure turbine cascades at low Reynolds numbers. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2019, 233, 354-368.	0.7	9
54	A simple approach to uniform PdAg alloy membranes: Comparative study of conventional and silver concentration-controlled co-plating. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4427-4436.	3.8	6

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55	Electrostatic Self-Assembled Composite Abrasives for Chemical Mechanical Polishing of A-Plane Sapphire. ECS Journal of Solid State Science and Technology, 2021, 10, 114002.	0.9	6
56	Effects of periodic wakes on boundary layer development on an ultra-high-lift low pressure turbine airfoil. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2017, 231, 25-38.	0.8	5
57	Parametric study of slotted diffuser effects on a highly loaded centrifugal compressor. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 702-714.	0.8	4
58	Stall Behavior in an Ultrahigh-Pressure-Ratio Centrifugal Compressor: Backward-Traveling Rotating Stall. Journal of Turbomachinery, 2022, 144, .	0.9	4
59	The effect of endwall boundary layer and incoming wakes on secondary flow in a high-lift low-pressure turbine cascade at low Reynolds number. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 5637-5649.	0.7	3
60	Preparation of a novel zeolite Y-stainless-steel wire mesh honeycomb for VOC capture. Microporous and Mesoporous Materials, 2021, 328, 111438.	2.2	3
61	Numerical Investigation of the Fan Flutter Mechanism Related to Acoustic Propagation Characteristics. Journal of Turbomachinery, 2022, 144, .	0.9	3
62	Two-Step Chemical Mechanical Polishing of Stainless Steel. ECS Journal of Solid State Science and Technology, 2022, 11, 044001.	0.9	3
63	Parametric studying of low-profile vortex generators flow control in an aggressive inter-turbine duct. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2015, 229, 849-861.	0.8	2
64	Influence of the Upstream Wakes on the Boundary Layer of a High-Lift Low-Pressure Turbine at Positive Incidence. Journal of Aerospace Engineering, 2020, 33, .	0.8	2
65	Investigation of two pipe diffuser configurations for a compact centrifugal compressor. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 716-728.	0.7	1
66	The performance of a centrifugal compressor with a tandem impeller in off-design conditions. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2020, 234, 156-172.	0.8	1
67	Investigation of a High Pressure Ratio Centrifugal Compressor with Wedge Diffuser and Pipe Diffuser. International Journal of Turbo and Jet Engines, 2021, 38, 1-13.	0.3	1
68	Effects of a slotted diffuser on the aerodynamic performance of a highly loaded centrifugal compressor. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 6879-6891.	1.1	0
69	Numerical investigation of the diffuser throat length effect on a transonic centrifugal compressor. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 3790-3803.	1.1	0