

# Xuechao Gao

## List of Publications by Year in descending order

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39  
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docs citations

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times ranked

717  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial resistance of gas transport through rigid and flexible zeolites. Separation and Purification Technology, 2022, 278, 119529.	7.9	4
2	A Coupling Process of Distillation with Vapor Permeation and Adsorption for Production of Fuel Ethanol: A Comparative Analysis on Energy Consumption. Industrial & Engineering Chemistry Research, 2022, 61, 1167-1178.	3.7	4
3	Impact of Impure Gas on CO <sub>2</sub> Capture from Flue Gas Using Carbon Nanotubes: A Molecular Simulation Study. Molecules, 2022, 27, 1627.	3.8	1
4	The induced orientation effect of linear gases during transport in a NaA zeolite membrane modified by alkali lignin. Journal of Membrane Science, 2021, 620, 118971.	8.2	7
5	Preparation of hollow fiber membranes from mullite particles with aid of sintering additives. Journal of Advanced Ceramics, 2021, 10, 78-87.	17.4	25
6	The Determination of Pore Shape and Interfacial Barrier of Entry for Light Gases Transport in Amorphous TEOS-Derived Silica: A Finite Element Method. ACS Applied Materials & Interfaces, 2021, 13, 4804-4812.	8.0	6
7	SSZ-13 zeolite membranes on four-channel $\gamma$ -Al <sub>2</sub> O <sub>3</sub> hollow fibers for CO <sub>2</sub> separation. Separation and Purification Technology, 2021, 267, 118611.	7.9	24
8	Size effect in determining the water diffusion rate in carbon nanotubes. Journal of Molecular Liquids, 2021, 334, 116034.	4.9	13
9	Adsorptive separation of Xe/Kr using nanoporous carbons in the presence of I <sub>2</sub> and CH <sub>3</sub> I. Separation and Purification Technology, 2021, 275, 119161.	7.9	8
10	Fabrication of stainless steel hollow fiber supported NaA zeolite membrane by self-assembly of submicron seeds. Separation and Purification Technology, 2020, 234, 116121.	7.9	18
11	Morphology, crystal structure and electronic state one-step co-tuning strategy towards developing superior perovskite electrocatalysts for water oxidation. Journal of Materials Chemistry A, 2019, 7, 19228-19233.	10.3	39
12	The study on the coupled process of column distillation and vapor permeation by NaA zeolite membrane for ethanol dehydration. Chemical Engineering Research and Design, 2019, 150, 246-253.	5.6	9
13	Molecular Simulation Study on the Microscopic Structure and Mechanical Property of Defect-Containing sl Methane Hydrate. International Journal of Molecular Sciences, 2019, 20, 2305.	4.1	16
14	Special Issue on "Transport of Fluids in Nanoporous Materials" Processes, 2019, 7, 14.	2.8	4
15	CFD simulation of hollow fiber supported NaA zeolite membrane modules. Separation and Purification Technology, 2019, 213, 1-10.	7.9	19
16	Significantly Improving the Durability of Single-Chamber Solid Oxide Fuel Cells: A Highly Active CO <sub>2</sub> -Resistant Perovskite Cathode. ACS Applied Energy Materials, 2018, 1, 1337-1343.	5.1	31
17	Modeling investigation of geometric size effect on pervaporation dehydration through scaled-up hollow fiber NaA zeolite membranes. Chinese Journal of Chemical Engineering, 2018, 26, 1477-1484.	3.5	5
18	Preparation, quantitative surface analysis, intercalation characteristics and industrial implications of low temperature expandable graphite. Applied Surface Science, 2018, 444, 800-810.	6.1	56

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19	Critical pore dimensions for gases in a BTESE-derived organic-inorganic hybrid silica: A theoretical analysis. Separation and Purification Technology, 2018, 191, 27-37.	7.9	5
20	The state equation of aggregation behaviours for Poly(oxyethylene)-Poly(oxypropylene)-Poly(oxyethylene) tri-block copolymers in aqueous solution. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 308-313.	2.7	0
21	Estimation of Pore Size Distribution of Amorphous Silica-Based Membrane by the Activation Energies of Gas Permeation. Processes, 2018, 6, 239.	2.8	7
22	The Influence of Cation Treatments on the Pervaporation Dehydration of NaA Zeolite Membranes Prepared on Hollow Fibers. Processes, 2018, 6, 70.	2.8	4
23	An ensemble synthesis strategy for fabrication of hollow fiber T-type zeolite membrane modules. Journal of Membrane Science, 2018, 563, 460-469.	8.2	31
24	Facile synthesis of MOFs with uncoordinated carboxyl groups for selective CO <sub>2</sub> capture via postsynthetic covalent modification. RSC Advances, 2017, 7, 3713-3719.	3.6	48
25	Preparation of defect-free DDR zeolite membranes by eliminating template with ozone at low temperature. Journal of Membrane Science, 2017, 539, 152-160.	8.2	99
26	Pore-neck resistance to light gases in a microporous BTESE-derived silica: A comparison of membrane and xerogel powder. Journal of Membrane Science, 2017, 531, 36-46.	8.2	4
27	Phase transformation during roasting process and magnetic beneficiation of oolitic-iron ores. Vacuum, 2017, 146, 63-73.	3.5	31
28	Film tension of liquid nano-film from molecular modeling. International Journal of Modern Physics B, 2017, 31, 1750016.	2.0	6
29	Modelling of disjoining pressure for Lennard-Jones free thin films. Modern Physics Letters B, 2016, 30, 1650169.	1.9	9
30	Quantitative analysis of surface tension of liquid nano-film with thickness: Two stage stability mechanism, molecular dynamics and thermodynamics approach. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 1018-1028.	2.6	5
31	Effect of stabilizer on the morphology of Au@TiO <sub>2</sub> spheres: a combined experimental and theoretical study. Bulletin of Materials Science, 2016, 39, 1685-1690.	1.7	2
32	Hybrid organosilica membrane with high CO <sub>2</sub> permselectivity fabricated by a two-step hot coating method. Journal of Membrane Science, 2016, 506, 31-37.	8.2	18
33	Adsorption and transport of gases in a supported microporous silica membrane. Journal of Membrane Science, 2014, 460, 46-61.	8.2	21
34	Understanding the diffusional tortuosity of porous materials: An effective medium theory perspective. Chemical Engineering Science, 2014, 110, 55-71.	3.8	36
35	The transport of gases in a supported mesoporous silica membrane. Journal of Membrane Science, 2013, 438, 90-104.	8.2	23
36	The transport of gases in a mesoporous $\gamma$ -alumina supported membrane. Journal of Membrane Science, 2013, 428, 357-370.	8.2	14

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37	Conformation and Orientation of Phospholipid Molecule in Pure Phospholipid Monolayer During Compressing. Chinese Journal of Chemical Engineering, 2013, 21, 177-184.	3.5	0
38	The transport of gases in macroporous $\gamma$ -alumina supports. Journal of Membrane Science, 2012, 409-410, 24-33.	8.2	15
39	Surface equation of state for pulmonary surfactant monolayers at Air-Water interface: Protein-lipid binary mixture monolayers. Canadian Journal of Chemical Engineering, 2010, 88, 1107-1113.	1.7	1