

# Xuechao Gao

## List of Publications by Year in descending order

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39  
papers

668  
citations

567281

15  
h-index

580821

25  
g-index

39  
all docs

39  
docs citations

39  
times ranked

717  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of defect-free DDR zeolite membranes by eliminating template with ozone at low temperature. <i>Journal of Membrane Science</i> , 2017, 539, 152-160.	8.2	99
2	Preparation, quantitative surface analysis, intercalation characteristics and industrial implications of low temperature expandable graphite. <i>Applied Surface Science</i> , 2018, 444, 800-810.	6.1	56
3	Facile synthesis of MOFs with uncoordinated carboxyl groups for selective CO <sub>2</sub> capture via postsynthetic covalent modification. <i>RSC Advances</i> , 2017, 7, 3713-3719.	3.6	48
4	Morphology, crystal structure and electronic state one-step co-tuning strategy towards developing superior perovskite electrocatalysts for water oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19228-19233.	10.3	39
5	Understanding the diffusional tortuosity of porous materials: An effective medium theory perspective. <i>Chemical Engineering Science</i> , 2014, 110, 55-71.	3.8	36
6	Phase transformation during roasting process and magnetic beneficiation of oolitic-iron ores. <i>Vacuum</i> , 2017, 146, 63-73.	3.5	31
7	Significantly Improving the Durability of Single-Chamber Solid Oxide Fuel Cells: A Highly Active CO <sub>2</sub> -Resistant Perovskite Cathode. <i>ACS Applied Energy Materials</i> , 2018, 1, 1337-1343.	5.1	31
8	An ensemble synthesis strategy for fabrication of hollow fiber T-type zeolite membrane modules. <i>Journal of Membrane Science</i> , 2018, 563, 460-469.	8.2	31
9	Preparation of hollow fiber membranes from mullite particles with aid of sintering additives. <i>Journal of Advanced Ceramics</i> , 2021, 10, 78-87.	17.4	25
10	SSZ-13 zeolite membranes on four-channel $\gamma$ -Al <sub>2</sub> O <sub>3</sub> hollow fibers for CO <sub>2</sub> separation. <i>Separation and Purification Technology</i> , 2021, 267, 118611.	7.9	24
11	The transport of gases in a supported mesoporous silica membrane. <i>Journal of Membrane Science</i> , 2013, 438, 90-104.	8.2	23
12	Adsorption and transport of gases in a supported microporous silica membrane. <i>Journal of Membrane Science</i> , 2014, 460, 46-61.	8.2	21
13	CFD simulation of hollow fiber supported NaA zeolite membrane modules. <i>Separation and Purification Technology</i> , 2019, 213, 1-10.	7.9	19
14	Hybrid organosilica membrane with high CO <sub>2</sub> permselectivity fabricated by a two-step hot coating method. <i>Journal of Membrane Science</i> , 2016, 506, 31-37.	8.2	18
15	Fabrication of stainless steel hollow fiber supported NaA zeolite membrane by self-assembly of submicron seeds. <i>Separation and Purification Technology</i> , 2020, 234, 116121.	7.9	18
16	Molecular Simulation Study on the Microscopic Structure and Mechanical Property of Defect-Containing $\alpha$ -Methane Hydrate. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2305.	4.1	16
17	The transport of gases in macroporous $\gamma$ -alumina supports. <i>Journal of Membrane Science</i> , 2012, 409-410, 24-33.	8.2	15
18	The transport of gases in a mesoporous $\beta$ -alumina supported membrane. <i>Journal of Membrane Science</i> , 2013, 428, 357-370.	8.2	14

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19	Size effect in determining the water diffusion rate in carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2021, 334, 116034.	4.9	13
20	Modelling of disjoining pressure for Lennard-Jones free thin films. <i>Modern Physics Letters B</i> , 2016, 30, 1650169.	1.9	9
21	The study on the coupled process of column distillation and vapor permeation by NaA zeolite membrane for ethanol dehydration. <i>Chemical Engineering Research and Design</i> , 2019, 150, 246-253.	5.6	9
22	Adsorptive separation of Xe/Kr using nanoporous carbons in the presence of I <sub>2</sub> and CH <sub>3</sub> I. <i>Separation and Purification Technology</i> , 2021, 275, 119161.	7.9	8
23	Estimation of Pore Size Distribution of Amorphous Silica-Based Membrane by the Activation Energies of Gas Permeation. <i>Processes</i> , 2018, 6, 239.	2.8	7
24	The induced orientation effect of linear gases during transport in a NaA zeolite membrane modified by alkali lignin. <i>Journal of Membrane Science</i> , 2021, 620, 118971.	8.2	7
25	Film tension of liquid nano-film from molecular modeling. <i>International Journal of Modern Physics B</i> , 2017, 31, 1750016.	2.0	6
26	The Determination of Pore Shape and Interfacial Barrier of Entry for Light Gases Transport in Amorphous TEOS-Derived Silica: A Finite Element Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4804-4812.	8.0	6
27	Quantitative analysis of surface tension of liquid nano-film with thickness: Two stage stability mechanism, molecular dynamics and thermodynamics approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 462, 1018-1028.	2.6	5
28	Modeling investigation of geometric size effect on pervaporation dehydration through scaled-up hollow fiber NaA zeolite membranes. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 1477-1484.	3.5	5
29	Critical pore dimensions for gases in a BTESE-derived organic-inorganic hybrid silica: A theoretical analysis. <i>Separation and Purification Technology</i> , 2018, 191, 27-37.	7.9	5
30	Pore-neck resistance to light gases in a microporous BTESE-derived silica: A comparison of membrane and xerogel powder. <i>Journal of Membrane Science</i> , 2017, 531, 36-46.	8.2	4
31	The Influence of Cation Treatments on the Pervaporation Dehydration of NaA Zeolite Membranes Prepared on Hollow Fibers. <i>Processes</i> , 2018, 6, 70.	2.8	4
32	Special Issue on "Transport of Fluids in Nanoporous Materials". <i>Processes</i> , 2019, 7, 14.	2.8	4
33	Interfacial resistance of gas transport through rigid and flexible zeolites. <i>Separation and Purification Technology</i> , 2022, 278, 119529.	7.9	4
34	A Coupling Process of Distillation with Vapor Permeation and Adsorption for Production of Fuel Ethanol: A Comparative Analysis on Energy Consumption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 1167-1178.	3.7	4
35	Effect of stabilizer on the morphology of Au@TiO <sub>2</sub> spheres: a combined experimental and theoretical study. <i>Bulletin of Materials Science</i> , 2016, 39, 1685-1690.	1.7	2
36	Surface equation of state for pulmonary surfactant monolayers at Air-Water interface: Protein-lipid binary mixture monolayers. <i>Canadian Journal of Chemical Engineering</i> , 2010, 88, 1107-1113.	1.7	1

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37	Impact of Impure Gas on CO <sub>2</sub> Capture from Flue Gas Using Carbon Nanotubes: A Molecular Simulation Study. <i>Molecules</i> , 2022, 27, 1627.	3.8	1
38	Conformation and Orientation of Phospholipid Molecule in Pure Phospholipid Monolayer During Compressing. <i>Chinese Journal of Chemical Engineering</i> , 2013, 21, 177-184.	3.5	0
39	The state equation of aggregation behaviours for Poly(oxyethylene)-Poly(oxypropylene)-Poly(oxyethylene) tri-block copolymers in aqueous solution. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 97, 308-313.	2.7	0