

Welcome to KFUPM

Dr. Youdong Cheng

Assistant Professor

Chemical Engineering Department

Affiliated with Interdisciplinary Research Center for Membrane & Water Security



Education:

PhD. from National University of Singapore, Singapore, 2019

Previous Employer:

KAUST, KSA
Postdoctoral Fellow,
2020 - 2025

Research Profile (SCOPUS):

Total Citations: **4,016**

Total Journal Publications: **40**

H-index: **31**

Professional Interests:

Gas separation, Membrane technology,
Metal-organic frameworks (MOFs), and
Covalent organic frameworks (COFs)

About Dr. Cheng:

Dr. Cheng is widely known for research on the design and development of mixed matrix membranes incorporating advanced porous materials such as metal-organic frameworks (MOFs) and covalent organic frameworks (COFs). These hybrid membranes show great potential for efficient gas separation, offering improved permeability and selectivity by combining the advantages of polymers and porous crystalline fillers.