

Welcome to KFUPM

Dr. Tareq Al-Attas

Assistant Professor

Department of Chemical Engineering

Affiliated with Interdisciplinary Research Center for Refining & Advanced Chemicals



Education:

Ph.D. in Chemical Engineering from the University of Calgary, Alberta, Canada, 2024

Previous Institution:

University of Calgary, Canada;
Research Associate;
2024-2026

Research Profile (SCOPUS):

Total Citations: **1,484**

Total Journal Publications: **25**

H-index: **15**

Professional Interests:

Electrocatalysis, Ion-Exchange Membrane and Electrode Design, CO₂ Utilization, Operando Spectro-Electrochemistry

About Dr. Al-Attas:

Dr. Al-Attas specializes in electrocatalysis and the design of electrochemical systems, including zero-gap membrane electrode assemblies (MEAs), for sustainable fuels and chemicals. His research covers CO₂ reduction (CO₂R), low-carbon hydrogen and ammonia, and biomass valorization. This involves probing reaction intermediates and kinetics using in situ and operando spectro-electrochemical techniques, including ATR-SEIRAS, EIS, and synchrotron XAS, to guide material and system design. His work also incorporates economic and life-cycle assessments to prioritize commercially and climate-relevant technologies.