

# Investigations of heterogeneous processes at liquid-vapor interfaces

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## ABSTRACT

Heterogeneous reactions at liquid-vapor interfaces play a major role in the environment and atmosphere. The investigation of chemical reactions and transport processes, in particular at aqueous solution-vapor interfaces, at realistic partial pressures, temperatures and time scales, is thus of great importance for a better understanding and theoretical modeling of some of the most important processes in the environment and atmosphere. This talk discusses the challenges and obstacles for measuring heterogeneous chemical reactions at liquid-vapor interfaces using X-ray photoelectron spectroscopy and suggests experimental strategies to overcome these challenges.