

Photoelectron Spectroscopy at Liquid/solid and Liquid/vapor Interfaces

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Solid/vapor, liquid/vapor and liquid/solid interfaces govern many processes in the environment, heterogeneous catalysis, and technology. Ambient pressure photoelectron spectroscopy is an excellent method for the characterization of these interfaces under operating conditions. This talk will focus on the application of APXPS to the investigation of liquid/solid and liquid/vapor interfaces and discuss in particular experimental challenges to and strategies for the preparation of these interfaces for photoelectron spectroscopy experiments. Among the examples that will be discussed is the application of standing wave APXPS to the investigation of the electric double layer at oxide/solution interfaces.