

Ultrafast Liquid ESCA with a Table Top Soft X-ray Source: Concepts and Applications

Ultrafast liquid ESCA or liquid phase photoelectron spectroscopy near water interfaces has only very recently been established. In our group we have combined liquid phase photoelectron and femtosecond laser spectroscopy to add the dimension of time to the classical ESCA technique. Beyond the basic concepts a few applications of ultrafast dynamics at or near liquid water interfaces will be highlighted and implications will be discussed.