

X-RAY PHOTOELECTRON SPECTROSCOPY AS A TOOL FOR BIO-SURFACE ANALYSIS

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INTRODUCTION: X-ray photoelectron spectroscopy has found many applications in polymer surface modification in particular.

Recent advances in instrument performance in the areas of charge neutralisation, spectroscopic sensitivity and the spatial resolution of XPS imaging have broadened the areas of application to include modified bio-surfaces. Results will be presented showing how XPS can help with the characterisation of self-assmebled monolayers in terms of composition, structure, orientation and spatial patterning.

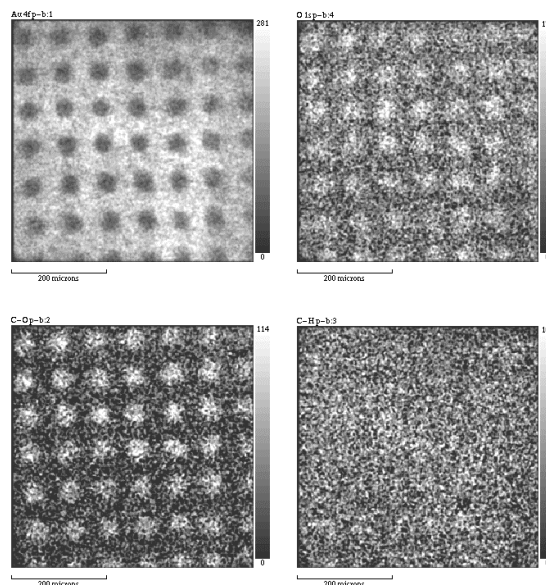


Fig. 1: XPS images of polymer film grown from 40µm patterned initiator SAM on Au surface.