

Interfacial electronic structures of metallic nanoparticles on bare- and functionalized-Au nanoisland templates, and on transition metal oxide supports

손영구¹, Debabrata Pradhan², K. T. Leung³

¹영남대 화학과, ²Indian Institute of Technology, ³University of Waterloo

We present the interfacial electronic structures of electrodeposited Cu and Fe on bare and 1,4-phenylene diisocyanide (PDI)-functionalized Au nanoisland templates (NITs), and Au and Ag nanoparticles on transition metal oxide supports. Our discussion is based on the depth-profiling X-ray photoelectron spectroscopy (XPS) and scanning electron microscopy (SEM).

Keywords: Interfacial electronic structures, X-ray photoelectron spectroscopy, metallic nanoparticles