

Insights Into CO₂ Hydrogenation on the InO_x/Cu (111) and InO_x/Au (111) Surfaces: Surface Electronic Structure and Reaction Mechanistic Studies.

Supporting Information

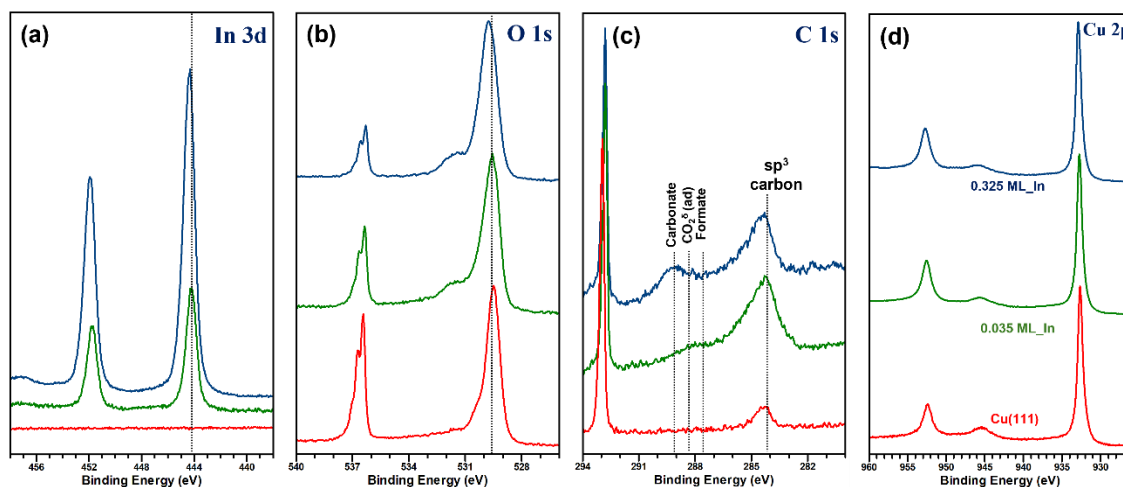


Figure 1. In 3d, O 1s, C 1s, and Cu 2p AP-XPS spectra collected while exposing InO_x/Cu_xO/Cu(111) surfaces with 0.035 and 0.325 ML of indium to 250 mTorr of CO₂ + 750 mTorr H₂ at 300 K. In a preliminary step, the surfaces were exposed to 750 mTorr of H₂ at 400 K.

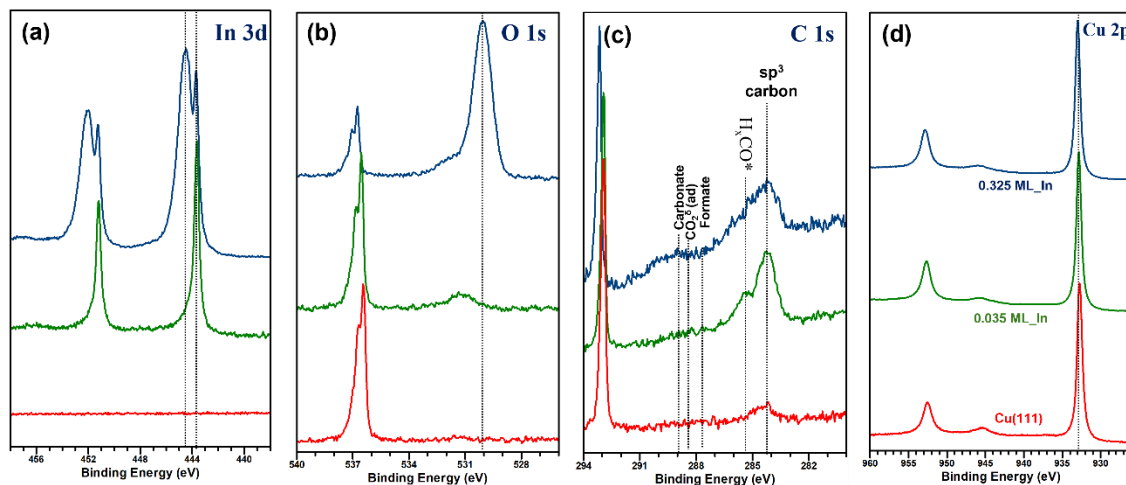


Figure 2. In 3d, O 1s, C 1s, and Cu 2p AP-XPS spectra collected while exposing InO_x/Cu_xO/Cu(111) surfaces with 0.035 and 0.325 ML of indium to 250 mTorr of CO₂ + 750 mTorr H₂ at 500 K. In a preliminary step, the surfaces were exposed to 750 mTorr of H₂ at 400 K.

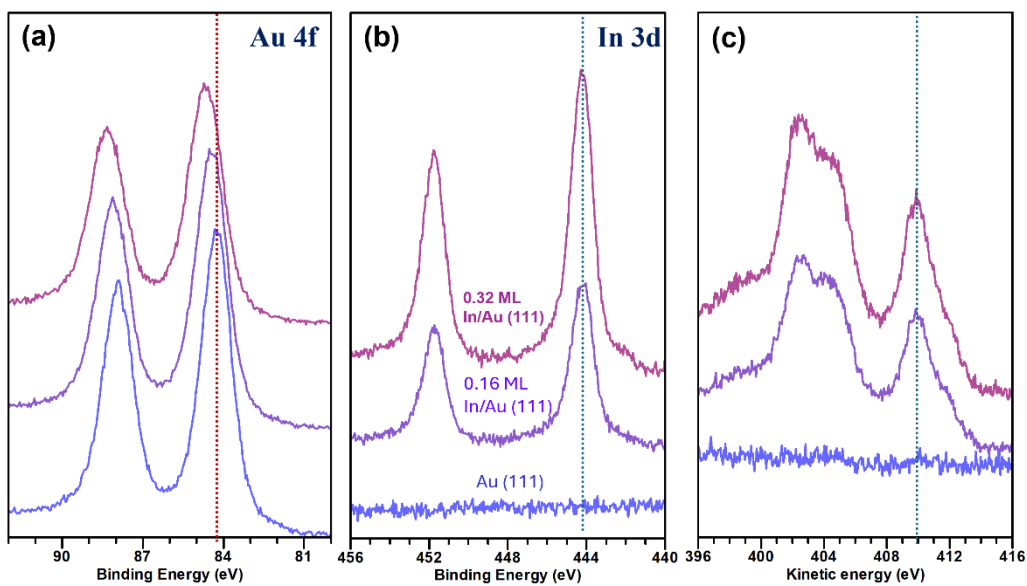


Figure 3. Au 4f (a), In 3d (b) and In MNN (c) XPS spectra for Au (111) and In/Au(111) surfaces with 0.16 and 0.32 ML of Indium.