

Figure 1: X-ray Photoelectron Spectra of Sb 3d doublet for clean GaSb (top) and after oxidation (bottom). Antimony oxide appears as a shoulder at slightly higher binding energies on both doublets, but at B.E. ~531 eV, an O1s peak overlaps with SbO_x.

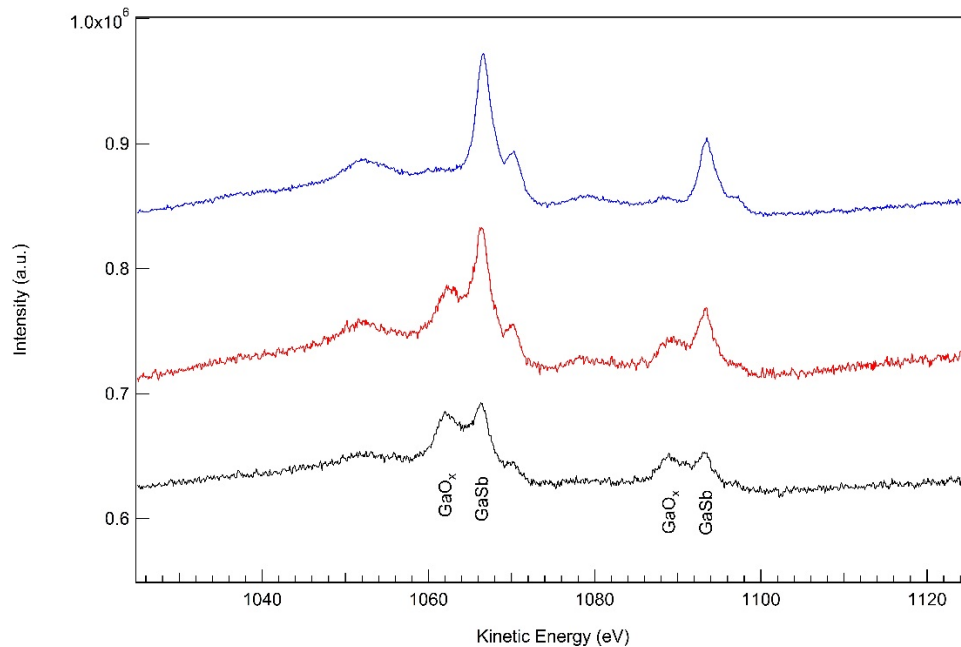


Figure 2: Electron-induced Ga LMM Auger Photoemission Spectra for clean GaSb (top), Gallium Oxide on GaSb for oxidation performed at room temperature (middle), and likewise for oxidation performed at 200C (bottom). A controllable amount of surface GaO_x can be produced, and can be stripped off reproducibly.