

## Supplementary Materials

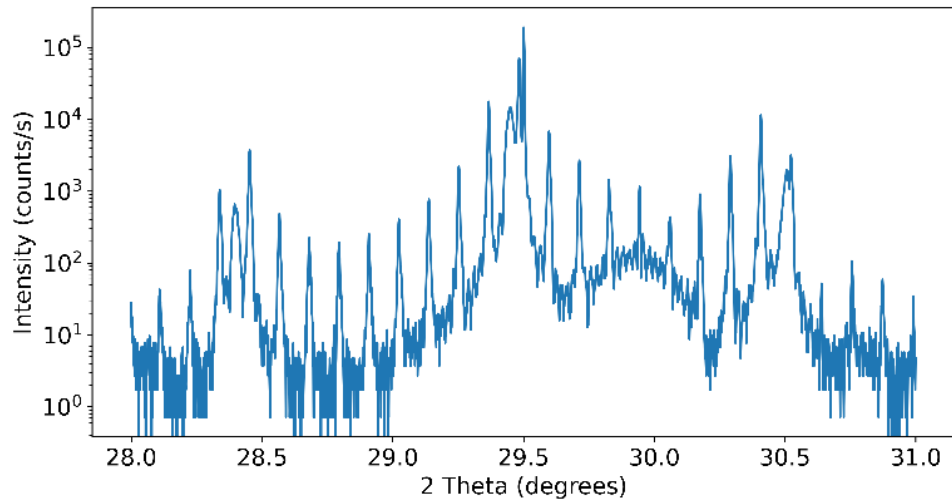


Figure 1. XRD of an InAs/AlSb QCD grown strain balanced on GaSb with a designed absorption wavelength of 4.3  $\mu\text{m}$ .

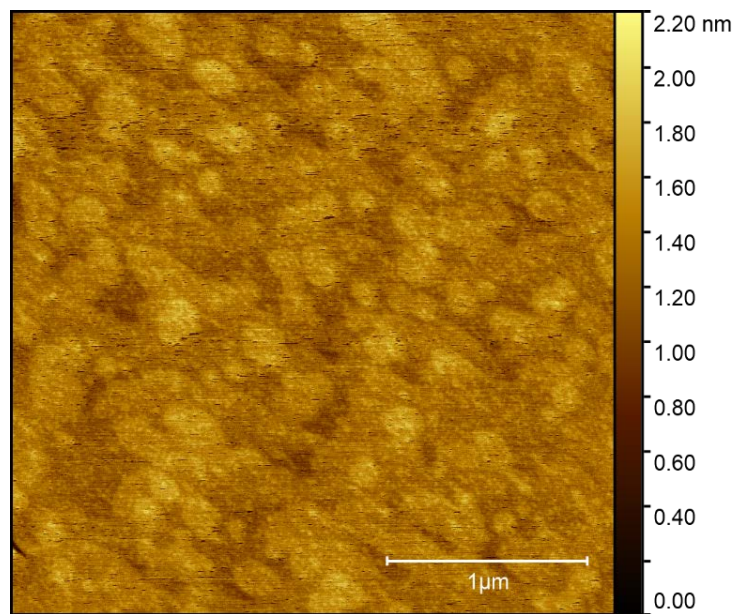


Figure 2. AFM of a  $3 \times 3 \mu\text{m}$  surface of the InAs/AlSb QCD grown strain balanced on GaSb. The RMS surface roughness of this scan is 0.189 nm