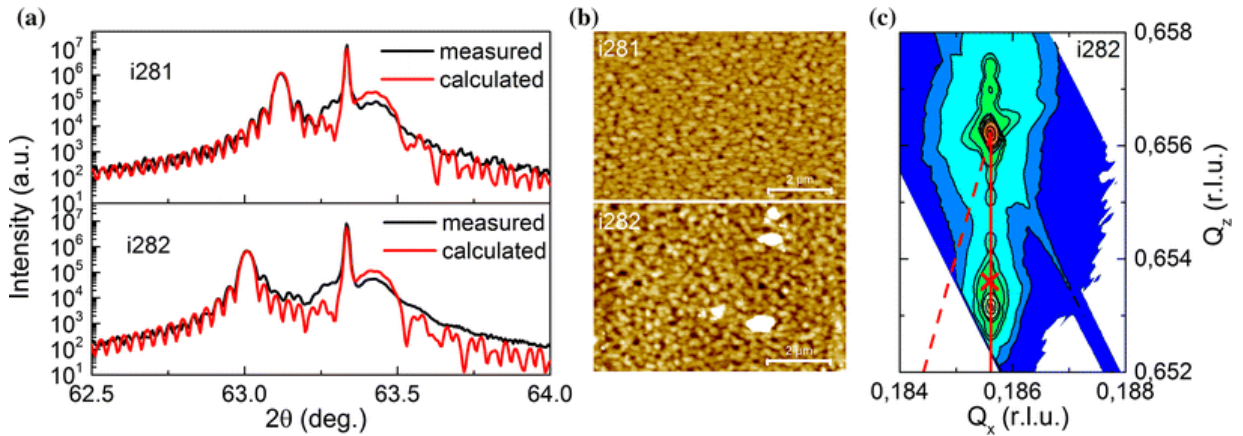
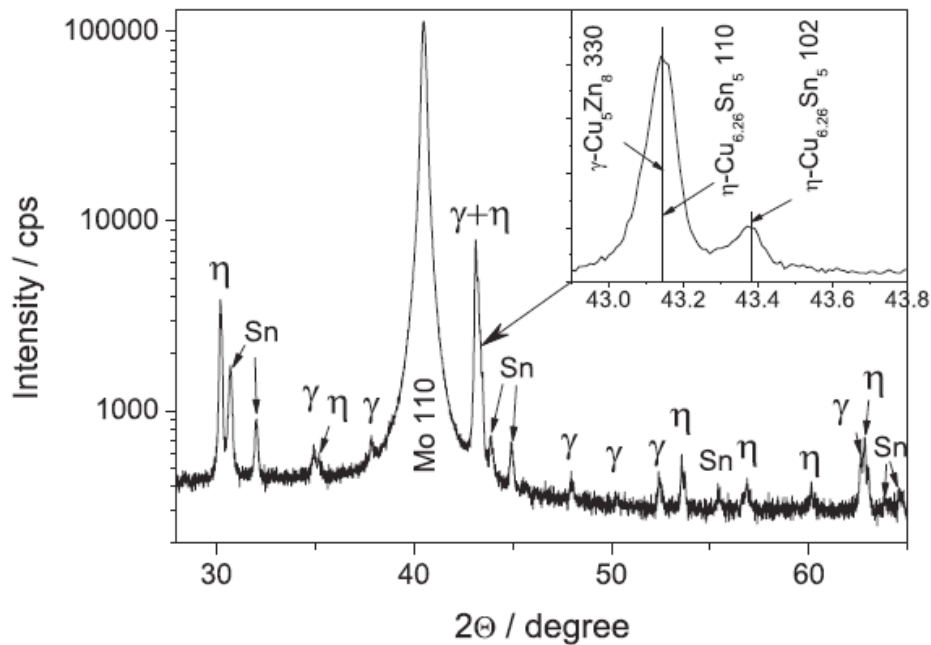


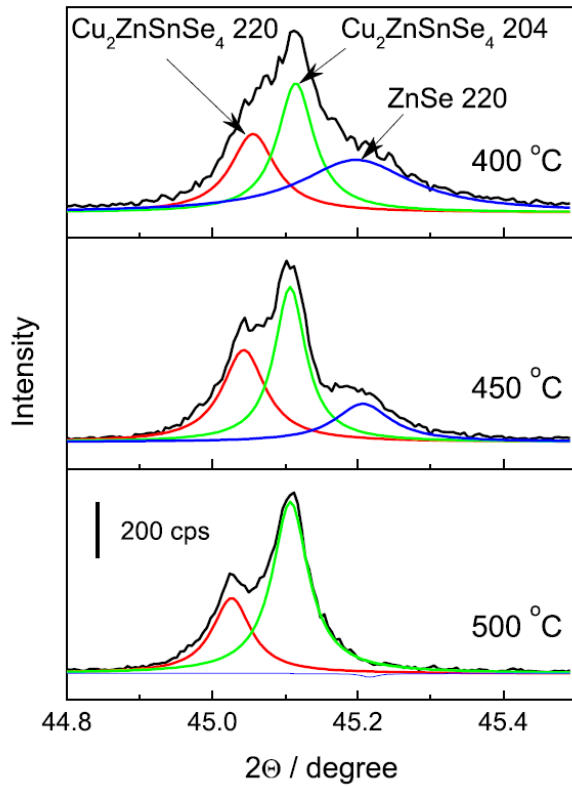
Samples of results obtained using SmartLab at LITEXBEAM.



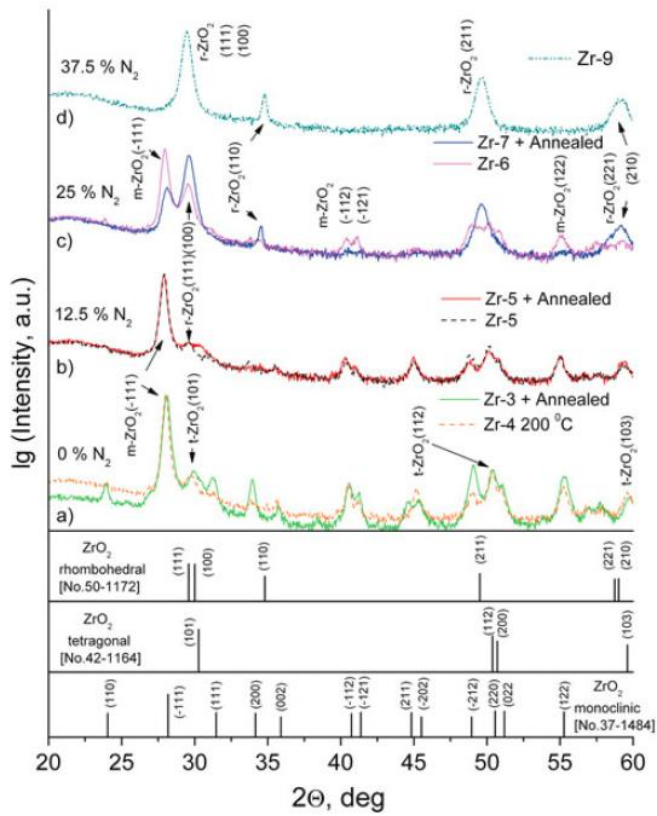
XRD rocking curves (a) and AFM images (b) measured on the surface of $\text{Ga}_y\text{In}_{1-y}\text{As}_{1-x}\text{Bi}_x$ layers with different Bi contents grown on almost lattice matched with InP substrate buffer. Reciprocal space map of (115) reflex of $\text{Ga}_{0.485}\text{In}_{0.515}\text{As}_{1-x}\text{Bi}_x$ layer with 3.6% Bi is shown on plot (c). The dashed and solid lines on this plot correspond to the fully relaxed and fully strained states, respectively. The cross on c marks the $\text{Ga}_{0.485}\text{In}_{0.515}\text{As}_{1-x}\text{Bi}_x$ layer peak position after annealing [1].



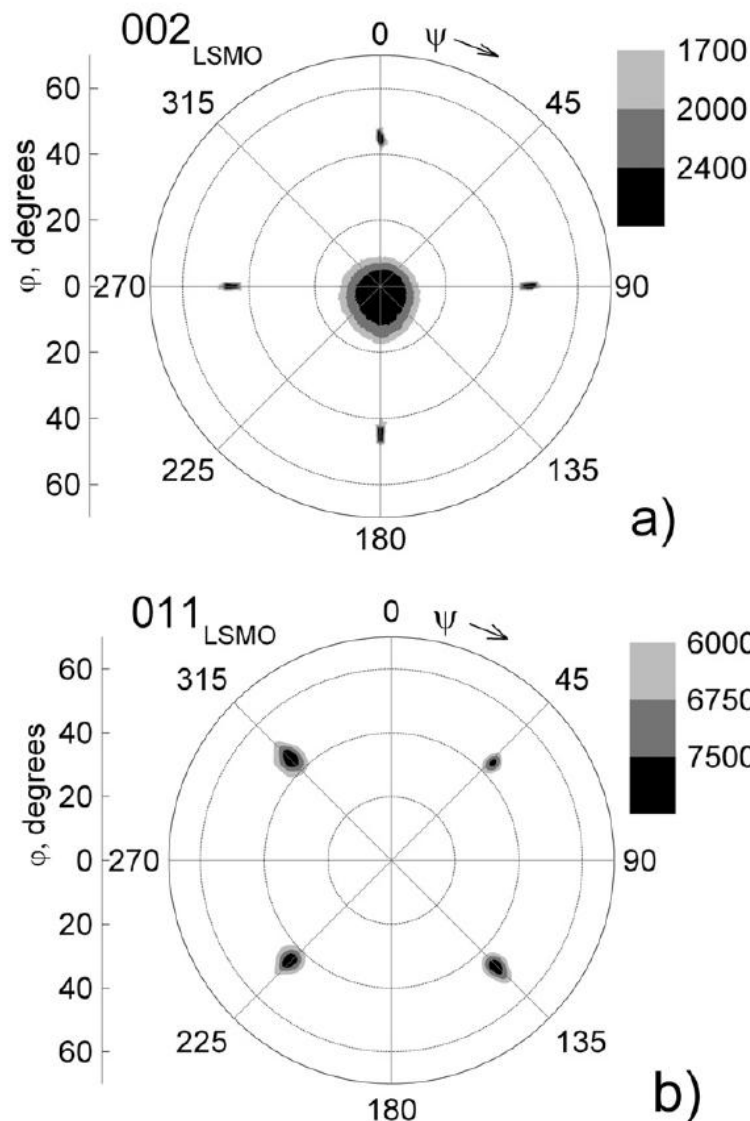
The XRD pattern of CZT precursor film annealed at 230 $^\circ\text{C}$ and quenched down to 26 $^\circ\text{C}$ measured with $\text{Cu K}\alpha_1$ radiation. The inset depicts a fragment of the XRD pattern containing XRD peaks $\gamma\text{-Cu}_5\text{Zn}_8$ 330, $\eta\text{-Cu}_{6.26}\text{Sn}_5$ 110 and 102 [2].



The fragments of XRD patterns measured with $\text{Cu K}\alpha_1$ radiation evidencing the presence of the ZnSe in Kesterite absorbers [2].



X-ray diffraction patterns of ZrO_xN_y films prepared at different $\text{O}_2:\text{N}_2$ ratio. [3]



Pole figures of the 002_{LSMO} (a) and 011_{LSMO} (b) reflections measured for the L240 film grown on YSZ(001) substrate at 750 °C. [4]

References:

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