

Fig.1 (a) GaAs/AIAs SL regrowth structure on etched regrowth template, (b) Nomarski picture of regrowth patterns

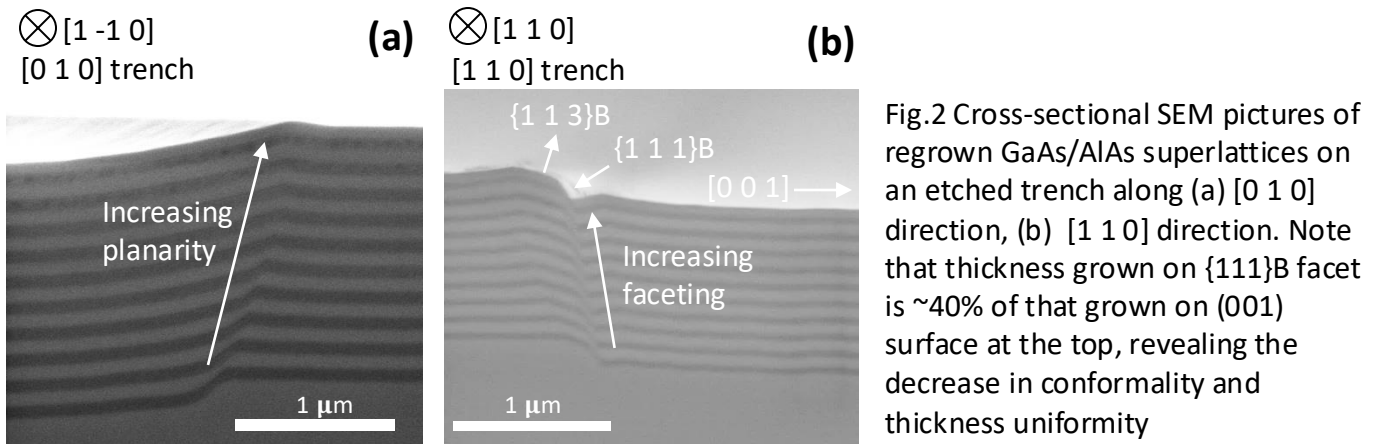


Fig.2 Cross-sectional SEM pictures of regrown GaAs/AIAs superlattices on an etched trench along (a) $[0 1 0]$ direction, (b) $[1 1 0]$ direction. Note that thickness grown on $\{111\}B$ facet is $\sim 40\%$ of that grown on (001) surface at the top, revealing the decrease in conformality and thickness uniformity

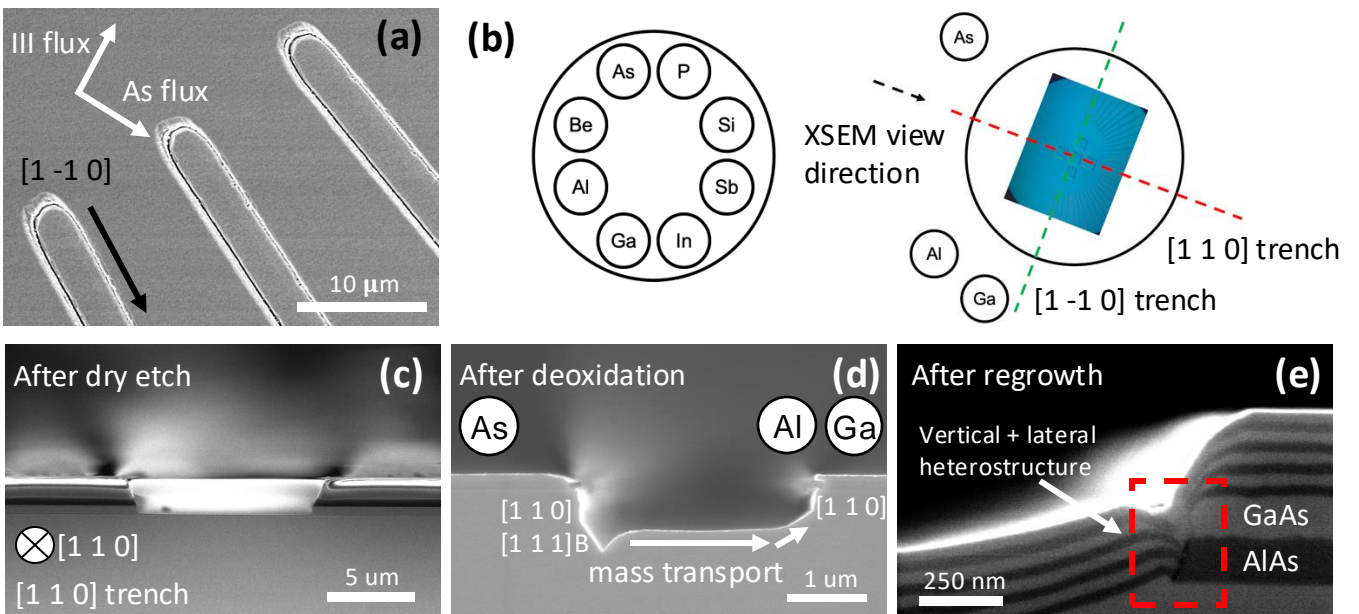


Fig.3 (a) Surface SEM picture of shadowed growth without rotation; (b) Configuration of source panel and relative position of sample to the sources, viewing from the source panel towards the sample; Cross-sectional SEM pictures of the sample (c) after dry etch, (d) after deoxidation, and (e) after regrowth