



Fig. 1 (a) RHEED pattern, (b) AFM topography, and (c) rocking curve of an epitaxial In_2O_3 film grown on (001) YSZ by S-MBE. (d) Plot of two key performance criteria of the best TFTs with transparent oxide channels: the on/off current ratio (horizontal axis) and drain current (vertical axis). The upper right corner is desired and as is evident our In_2O_3 -based TFTs produced at low temperature provide excellent performance.