

Figure: (a) GIXRD spectra showing Ar-plasma dependence with dominant (002) peak. (b) GIXRD spectra showing plasma duration dependence with $Ar/N_2/H_2$ -plasma. (c) Growth Per Cycle behavior with respect to Plasma Power. (d) GIXRD spectra for plasma power dependence with N_2/H_2 -plasma and No Ar. (e) GIXRD plots for temperature dependence of crystallinity of GaN with $Ar/N_2/H_2$ -plasma. (f) AFM topography with area window 10 x 10 µm2 of a GaN on Si.