



Figure 1. (a) Growth-per-cycle (GPC) behavior with respect to the reactor pressure. (b) Averaged *in situ* single-cycle ellipsometer measurements as a function various plasma composition. (c) GPC dependence on the decoupled H₂ flow rate. (d) GPC on the decoupled N₂ flow rates. (e) GPC dependence on the decoupled Ar flow rate. (f) GIXRD spectra showing (002) preferred orientation peak intensity dependence on the Ar-plasma content.