



Fig. 1: *In-situ* differential infrared absorption spectra after (a) 1 min and (b) 10 min total Ar plasma treatment (pink) and subsequent DSBAS exposure (red) on a substrate at 200°C . The sharp band at 2083 cm^{-1} in the inset graphs is associated with the loss of the initial Si-H (green) (referenced to KBr windows) as a function of treatment. The mode at 2176 cm^{-1} corresponds to the stretch of Si–SiH₃, the product of DSBAS reaction (red) with Si* and Si-H.