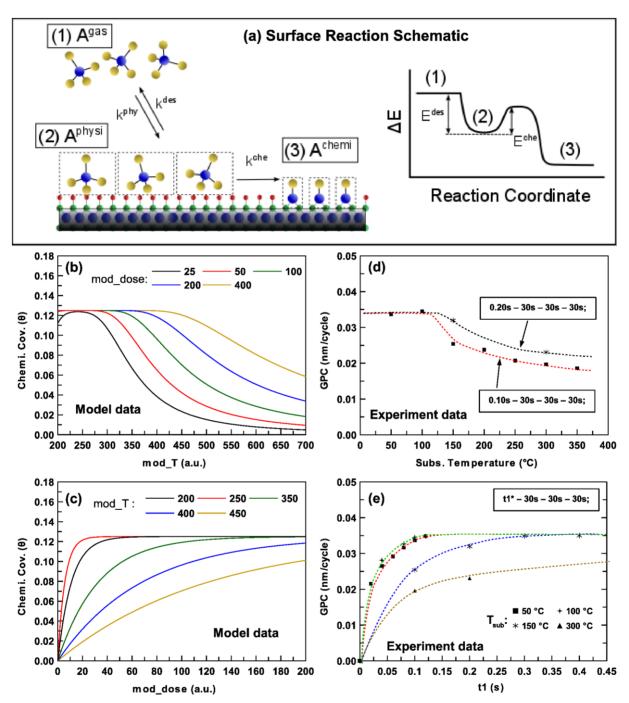
## Temperature dependent kinetics of ALD reaction: SiN PEALD study



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Fig. 1. (a) Schematic of ALD surface reaction illustrating physisorption ( $k_{phy}$ ), desorption ( $k_{des}$ ), and chemisorption ( $k_{che}$ ) events. Modelled precursor coverage  $\theta$  showing (b)  $\theta$  vs.  $T_{sub}$  at increasing dose  $\tau$  and (c)  $\theta$  vs. dose  $\tau$  at increasing  $T_{sub}$ . Experimental results for SiN PEALD process utilizing tris-dimethylamino-silane and forming gas plasma showing (c) GPC vs.  $T_{sub}$  and (d) GPC saturation curves at different  $T_{sub}$ .