

Figure 1: Initial state of a hybrid thin film growth reaction in gas-phase (left) and surface model (right).

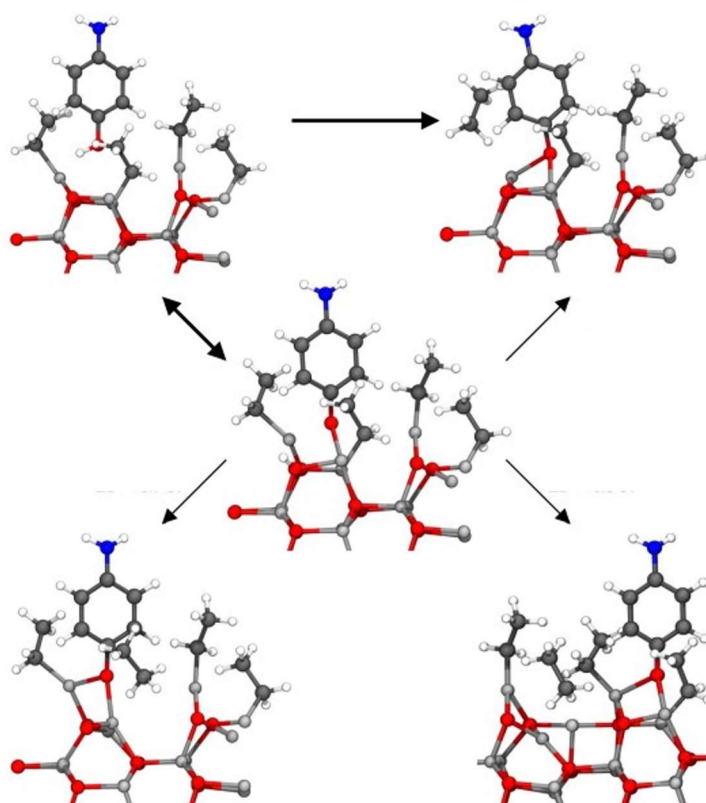


Figure 2: Hydrogen migration from the hydroxyl group of 4-Aminophenol to ethyl ligand utilizing both ligand exchange and dissociation reactions to grow the hybrid thin film.