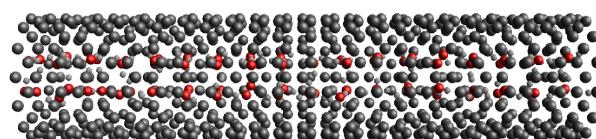


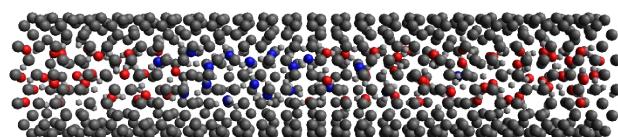
Supporting information

Fig. S1. The snapshots of the side view of the different systems.

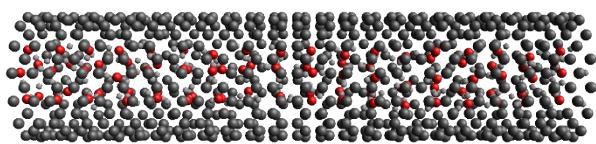
a) (13,0) CNT without methane



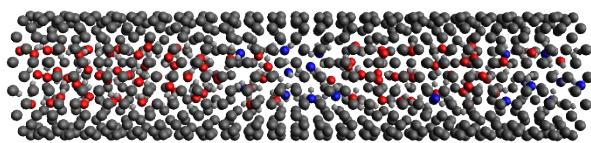
b) (13,0) CNT with methane



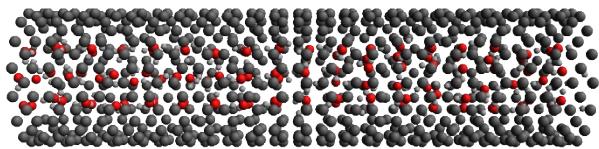
c) (14,0) CNT without methane



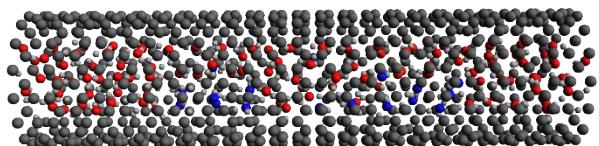
d) (14,0) CNT with methane



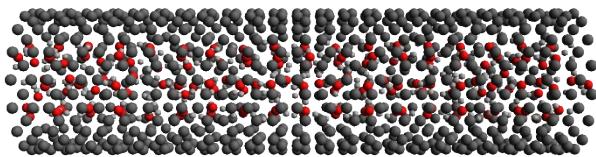
e) (15,0) CNT without methane



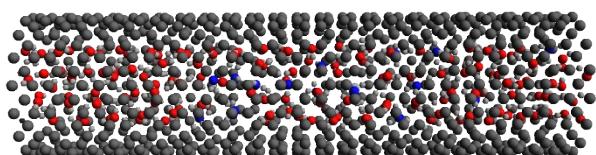
f) (15,0) CNT with methane



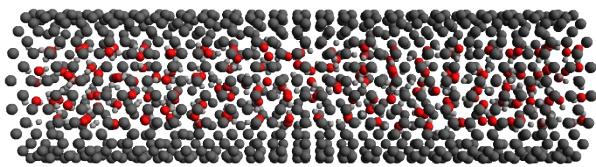
g) (16,0) CNT without methane



h) (16,0) CNT with methane



i) (17,0) CNT without methane



j) (17,0) CNT with methane

