

Figure 1: CNTs grown on silicon. A high degree of uniformity is observed. The SEM picture is a zoom of circular pattern with a diameter of 300 μm, fully filled with about 10000 CNTs. The pitch is 2.5 μm and the average height 1.25 μm.

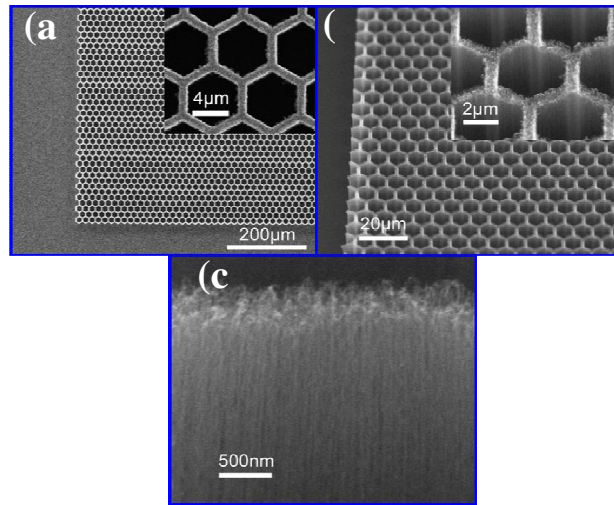


Figure 2 (a) and its inset show the top view of the honeycomb-shaped CNT mesh in low and high magnification, respectively, while Figure 2 (b) and its inset show the view at a 45 ° tilt. Figure 2 (c) shows that the CNTs in the VACM are highly uniform, dense and well aligned in a direction perpendicular to the substrate.

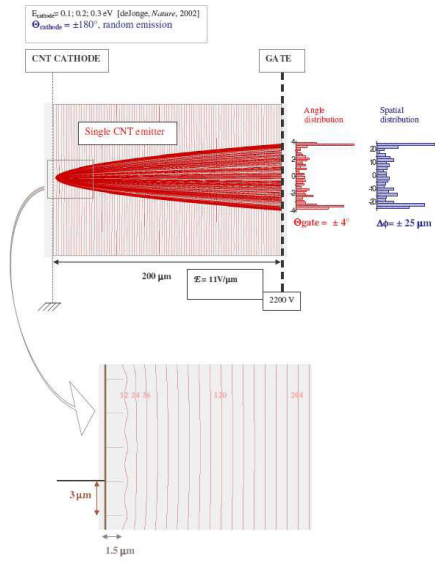


Fig. 3 Electron trajectories emitted from a single CNT tip (main figure). A zoom of the extraction zone shows the local field in the vicinity of 5 tips.