

Fig. 1-1 Emitting image of fully sealed CNT-FED at color mode with red, green and blue phosphor columns [Choi-95-3129]



Fig. 1-2 Video running image of the CNT-based FED [Chung-02-4045]. The size of active area is 5 inch diagonal and operated in the gate electrode of 100 V and anode biases of 1.5 kV, respectively, which was observed with a duty ratio of 1/120 and a frequency of 100 Hz.

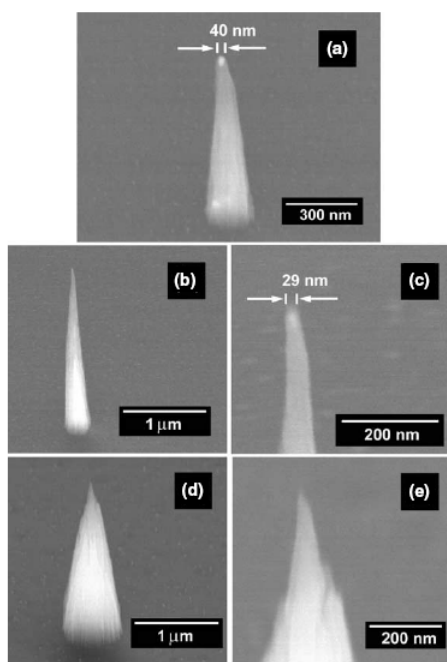


Fig. 1-3 SEM images of the same VACNC prepared using 10 nm thick Ni–Fe catalyst after total growth time of: (a) 15 min, (b)–(c) 30 min, and (d)–(e) 45 min. Images (c) and (e) are close-ups of the VACNC tip from images (b) and (d), respectively. All images were taken at a tilt angle of $\sim 45^\circ$ [Merkulov-01-381].

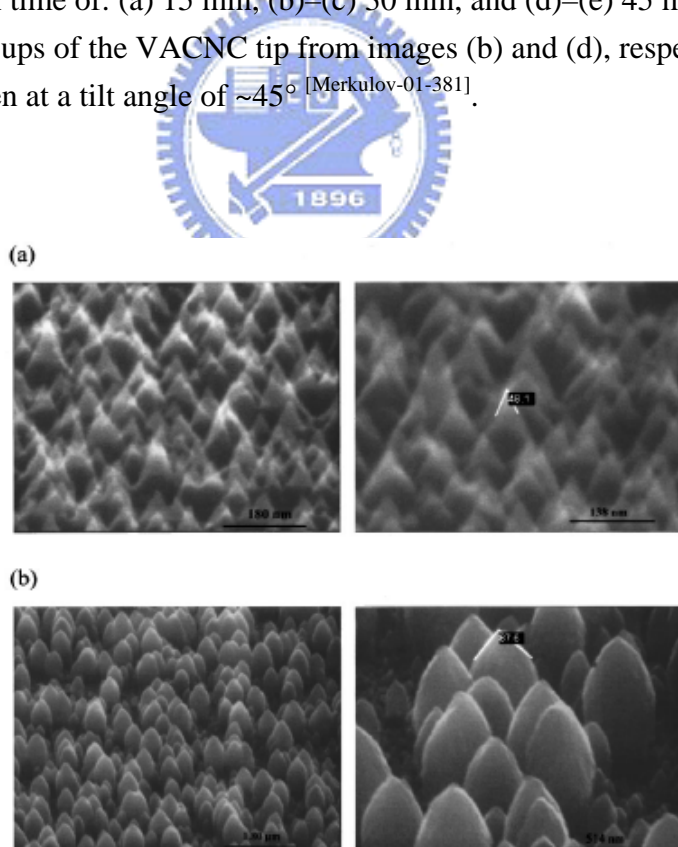


Fig. 1-4 SEM photographs of carbon nanotips grown on Pt under (a)-280 V and (b)-150 V [Tsai-02-721].

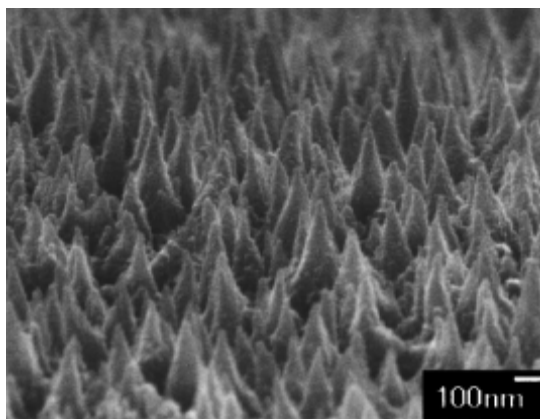


Fig. 1-5 Cross-sectional FESEM images of *a*-C nanotips [Huang-03-6797]. The samples were tilted forward 5° during measurement.

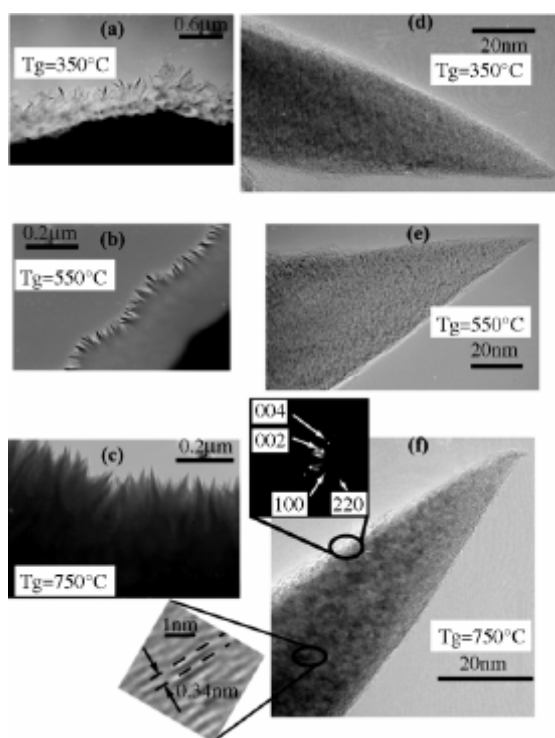


Fig. 1-6 Low-magnification TEM images of CCNFs grown at 350°C (a), 550°C (b) and 750°C (c), HRTEM images of CCNFs grown at 350°C (d), 550 °C (e) and 750°C (f). The insets in (f) are selected area electron diffraction taken on the longitudinal edge of a CCNFs and magnified image and inter-layer space of a CCNFs grown at 750°C [Hayashi-04-2886].

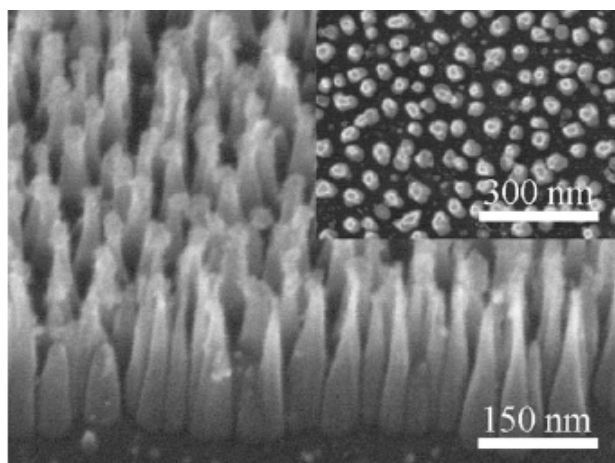


Fig. 1-7 SEM surface morphologies of samples prepared under DC bias of -230 V. The inset in panel. The inset its top view image ^[Zhong-04-315]. (Substrates: Si coated with 1.5nm Fe; CH₄ concentration: 20%; growth time: 20 min.)

