

Growth of High Purity Single Walled Carbon Nanotubes Using Alcohol Plasma

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In this report, we demonstrated a new growing method of single walled carbon nanotubes (SWNTs) using alcohol plasma. The standard chemical vapor deposition(CVD) was employed with a remote plasma source. It revealed that this growing method is fitted for nanotube growth on substrate with both of catalytic films and nano particles. Raman spectroscopy and scanning electron microscopy (SEM) were resulted that grown nanotubes by the alcohol plasma were easier for growing method and higher in purity than the general CVD.