Supplementary Materials

Growth of Y-shaped Carbon Nanofibers from Ethanol Flames

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For identifying the catalyst, we performed SAED analysis for the samples. Fig. S1(a) shows a CNF that is attached to a catalyst particle. This CNF and the Y-shaped CNFs are co-existed in the same samples. This TEM image and Fig. 3 were taken from the same TEM copper grid sample at the same time of TEM characterizations.

According to SAED pattern, we can identify that the catalyst is γ -Fe.

Fig. S1 (a) TEM image of CNF attached a catalyst at its tip. The CNF was synthesized by employing iron nitrate as catalyst precursor (b) The SAED pattern of the catalyst shown in Fig. S1(a).