

Carbon Nanotubes

Grown By
Chemical Vapor Deposition



SHT Smart High Tech AB

We produce CNTs at low pressure using chemical vapor deposition method. We can grow on various substrates such as Si, SiO₂ and metals with vertically aligned CNT structures. CNTs both in forest and single manner are available by TCVD and PECVD, respectively. The CNTs offer very good uniformity on height and diameter. We can supply CNT structures from chip-sized up to 2 inch wafer. The produced CNTs show very good quality. We also offer patterning service as required by our customers. More detailed info is available in Table 1.

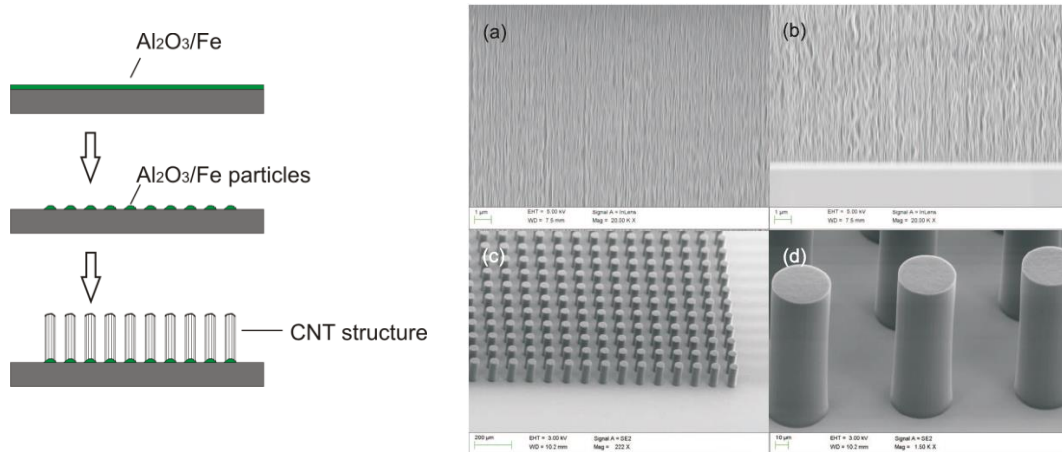


Figure 1. CNT growth method (left) and as-produced CNT bundles by TCVD (right).

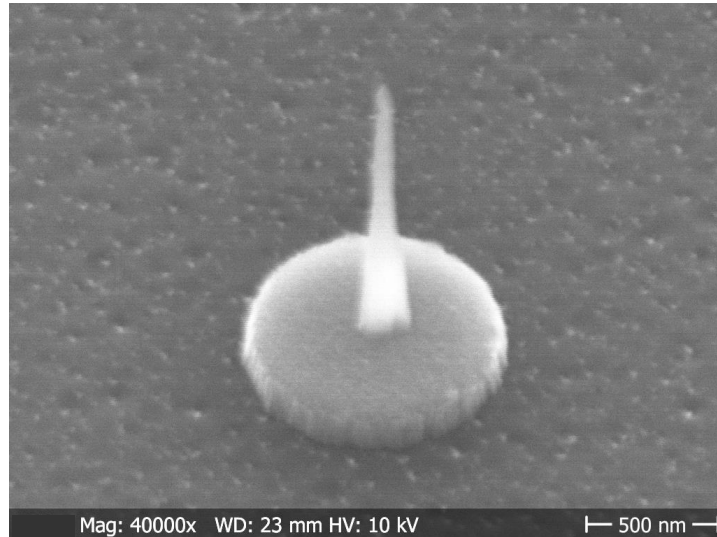


Figure 2. As-produced single CNT on metal surface.

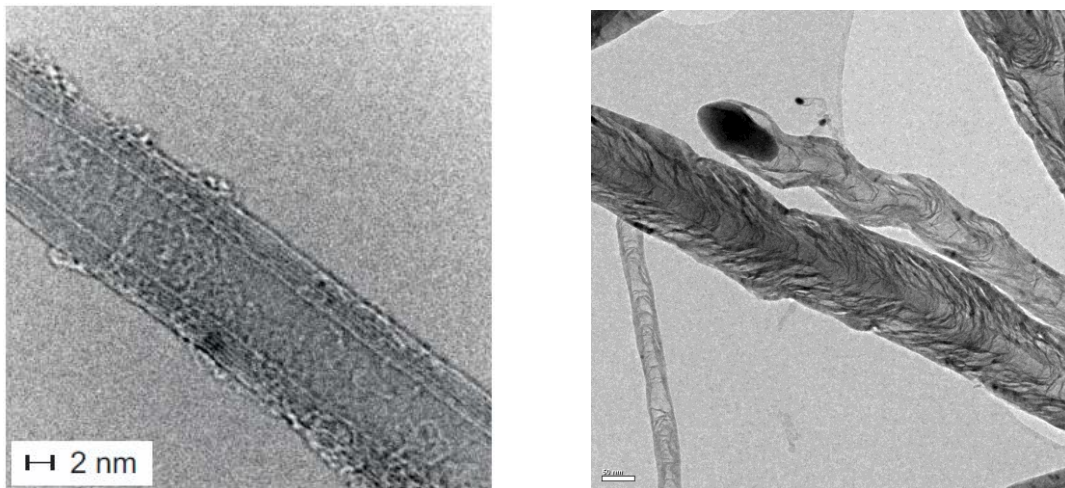


Figure 3. TEM images of CNTs produced by TCVD (left) and PECVD (right), respectively.

Table 1. Product parameters.

Method	Morphology	Substrate	Size
CVD	Vertically aligned, single or forest	Si, SiO ₂ , metal, etc.	Single to wafer level