

各种CNT的观察与测定 III

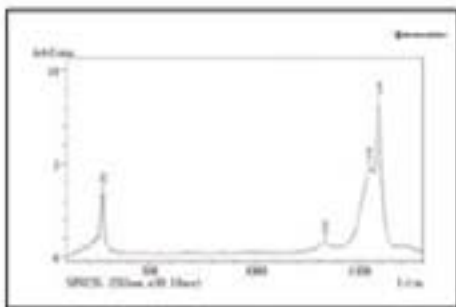
Various Types of CNT Observations and measurements:#3

样品：HiPco 单层碳纳米管（产物级）

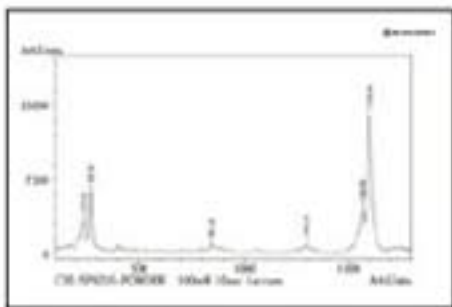
Sample: HiPco single-walled carbon nanotubes(As-Produced grade)

Carbon Nanotechnologies Inc生产的SWNT的观察与测定实例。
This is an example of observation and measurement of HiPco,a commercially available CNT.

拉曼分光（HoloProbe 监控系统）/Raman Scattering

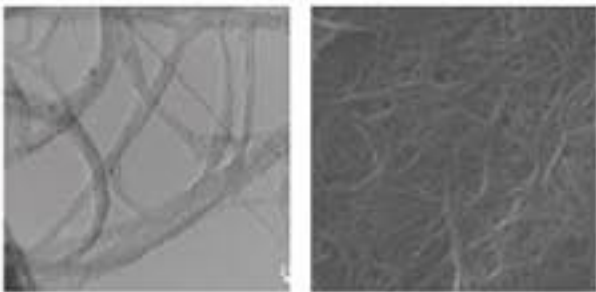


532nm激发的拉曼光谱
Raman spectrum at 532 nm excitation



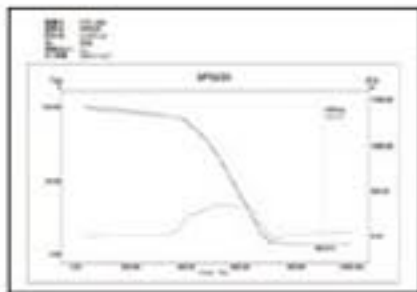
785nm激发的拉曼光谱
Raman spectrum at 785 nm excitation

TEM•SEM



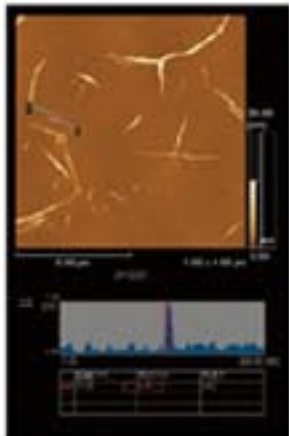
TEM/SEM对SWNT的观察
SWNT observation by TEM and SEM

热重分析（TGA-50）/Thermogravimetry



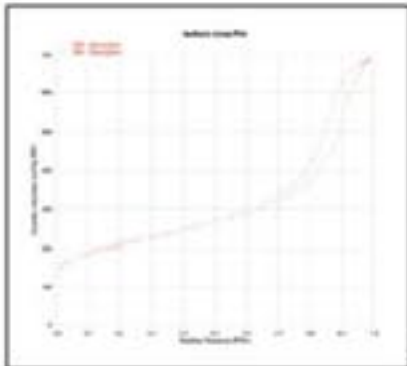
DTG的热重分析
Thermogravimetric measurement by DTG

SPM（SPM-9600）



TEM/SEM对SWNT的观察
SWNT observation and estimate of diameter by SPM

比表面积/细孔分布（TriStar3000型）



前处理装置：真空预处理061型
前处理条件：300摄氏度、5小时、抽真空
吸附气体：氮气（液氮温度）
样品名BET 比表面积（平方米/克） 细孔容积（平方厘米/克）
SWNT 751 1.059995

DTG的热重分析
Specific surface area/porous distribution measurement via constant volume (gas absorption) method