

SWNTs的包裹观察III

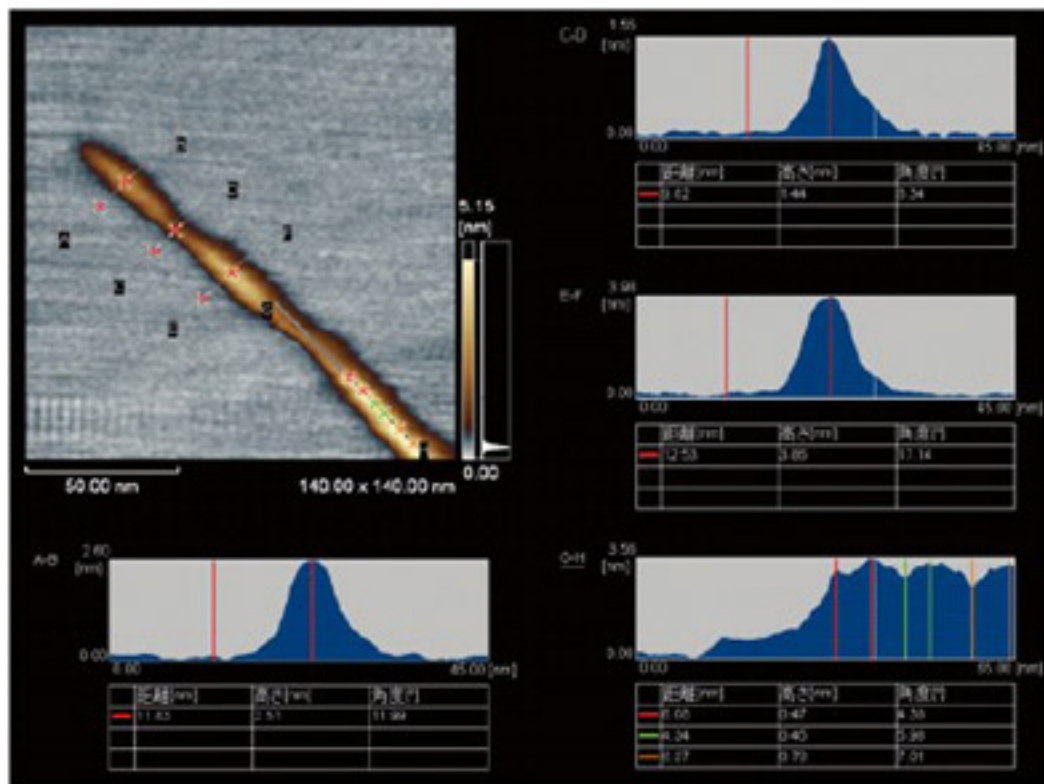
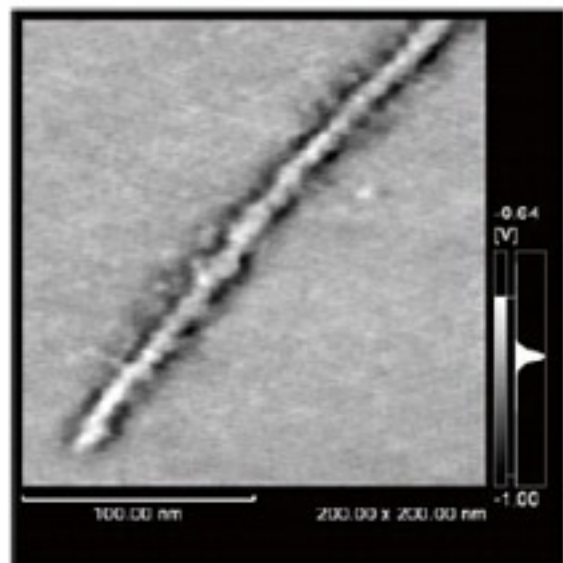
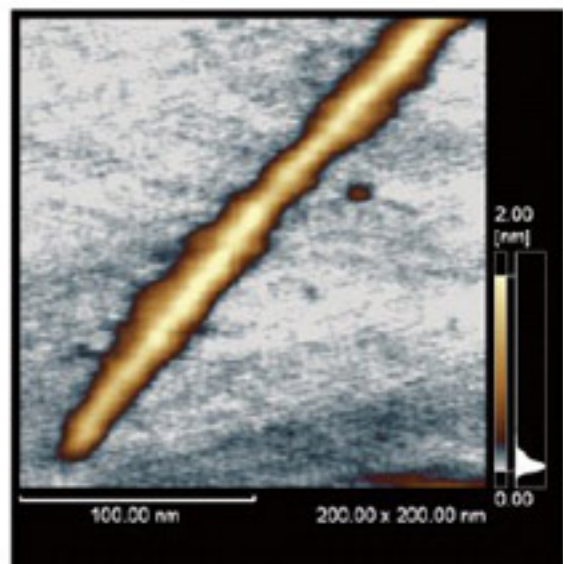
Observation of SWNTs Composite

共轭聚合物包裹

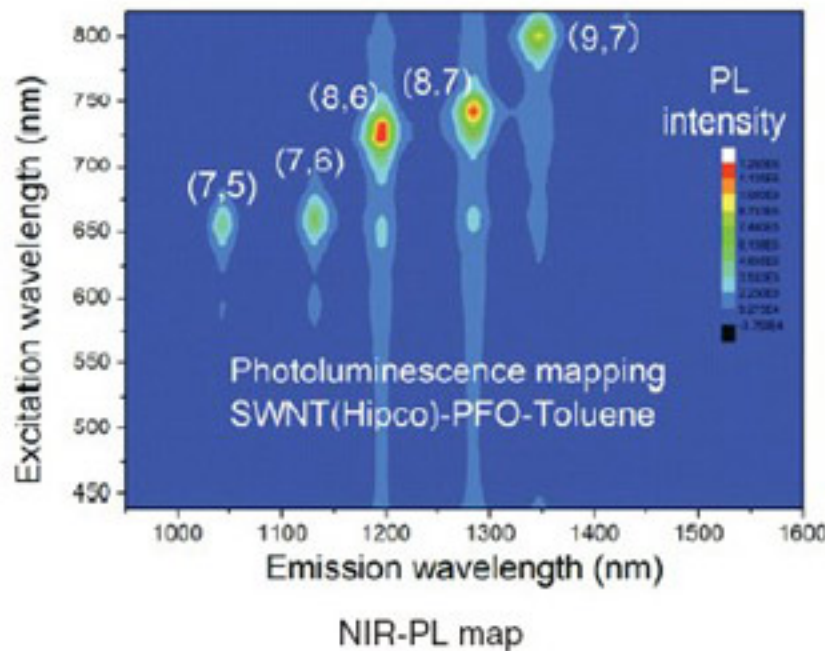
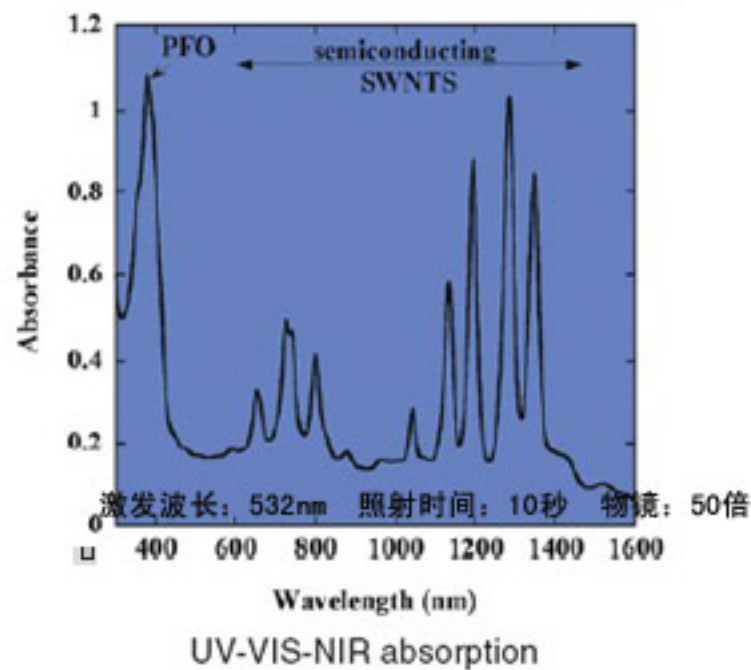
经超声波处理、离心分离、滤过处理后，得到未精制的SWNTs粉末（Hipco），用PFO（poly-9,9-di-n-octylfluorentnyl-2-7-diyl）作为萃取剂，可以从甲苯溶液中萃取半导体性SWNT。分别用AFM、NIR-PL、UV-VIS-NIR观察这些样品，得到如下图像。

Conjugated polymer - wrapped SWNTs

Semiconducting SWNTs extracted from as-produced carbon nanotubes (Hipco) using PFO (poly-9,9-di-n-octylfluorentnyl-2-7-diyl) in toluene as extracting agent, assisted by sonication, ultracentrifugation and filtration techniques. These samples was observed used AFM, NIR-PL, UV-VIS-NIR.



AFM 像
AFM image



资料提供：产业技术综合研究所

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