

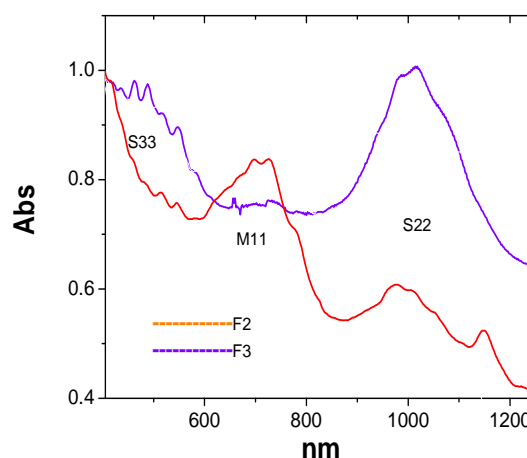
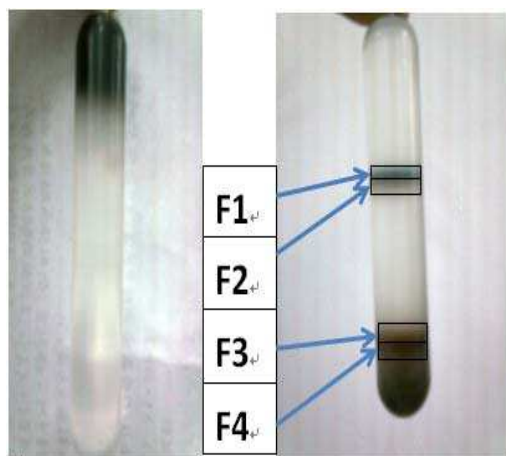
Separation of Metallic and Semiconducting Single-walled Carbon Nanotubes by Density Gradient ultracentrifugation

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In this paper, Metallic and semiconducting single-walled carbon nanotubes (SWNTs) were separated by density gradient ultracentrifugation (DGU) with sucrose as the gradient medium. The products were characterized by laser Raman spectroscopy and UV-vis-NIR absorption spectroscopy, and it was found that the purity of the metallic SWCNTs and semiconducting SWCNTs obtained by the sucrose-DGU was estimated to be 74.33% and 99%, respectively.



References:

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- [2] E.H. Haroz, W.D. Rice, B.Y. Lu, et al. *ACS Nano*, 4(2010) 1955–1962.