

1. EDX spectra of Fe-filled SWNTs and pristine SWNTs.

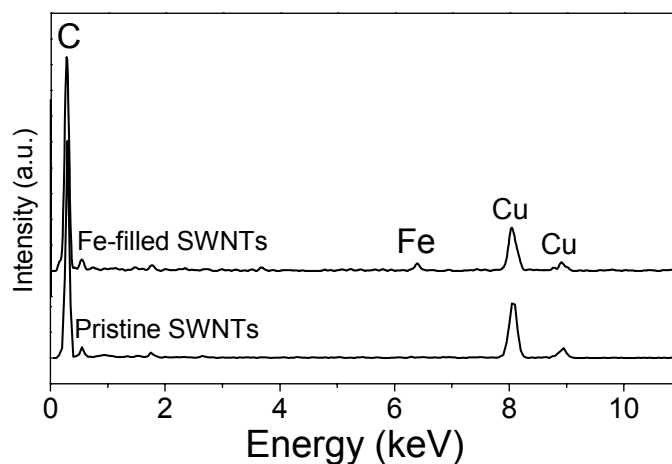


Fig.1 EDX spectra of Fe-filled SWNTs and pristine SWNTs

Compared with the EDX data of pristine SWNTs, one distinct peak of Fe at 6.4 keV is seen for the sample of Fe-filled SWNTs, although it exhibits a relatively weak intensity.

2. Magnetic properties of ferrocene and ferrocene-filled SWNTs

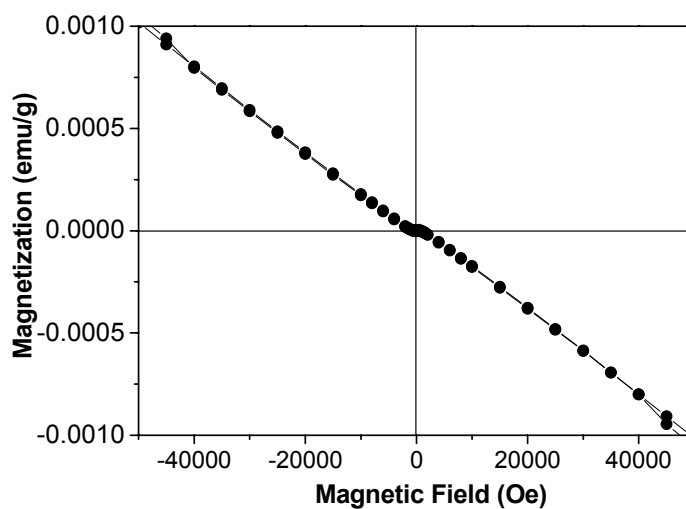


Fig. 2 Magnetization curve of ferrocene measured at 5 K

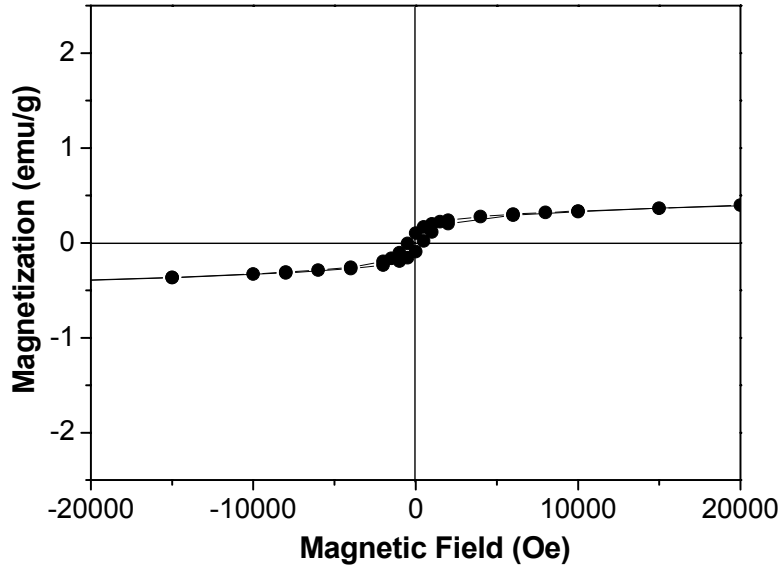


Fig. 3 Magnetization curve of ferrocene-filled SWNTs measured at 5 K

The above results indicate that ferrocene molecules show diamagnetic behavior, as shown in Fig.2. Also, the magnetization data in Fig. 3 reveals that magnetic characterization of ferrocene-filled SWNTs is similar to that observed for pristine SWNTs, which demonstrates that the magnetization of ferrocene-filled SWNTs comes from the magnetic particles in the sample of pristine SWNTs.