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Title: The effect of different order of purification treatments on the purity of multiwalled carbon nanotubes

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## Highlights

- ▶ MWCNTs were purified with different order treatments of gas phase and liquid phase.
- ▶ MWCNTs were characterized by TGA, FTIR, Raman, XPS, titration and weighing method.
- ▶ The morphology of purified MWCNTs was verified using SEM and TEM.
- ▶ Amorphous carbon and iron catalysts in MWCNTs were removed.
- ▶ The method including gas phase firstly and then liquid phase was more effective.

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