

## PURIFICATION OF CARBON NANOTUBES

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Nanotubes have never ceased to make object of research around the world. The scientific community has high hopes on these nanomaterials seen their exceptional properties and their various applications. The as-prepared CNTs contain impurities such as metal catalysts, amorphous carbon, and multi-shelled carbon particles. These impurities must be removed to realize the intrinsic properties of the CNTs. Purification is an essential issue to be addressed. Here we present an overview of the purification of carbon nanotubes, based on two methods of purification, filtration and acid treatments.

## PROPERTIES OF LITHIUM BATTERY UNDER DIFFERENT PROPORTIONS OF TERNARY CATHODE MATERIALS NICKEL, COBALT AND ALUMINUM

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$\text{LiNi}_{1-x-y}\text{Co}_x\text{Mn}_y\text{O}_2$ (NCM), a cathode material of nickelic ternary lithium battery, has become a promising component for Li-ion power battery by its high specific capacity and low cost. Proportion of nickel, cobalt and manganese (NCM) can change the property of nickelic NCM materials. This year, common nickelic ternary battery types are NCM523 and NCM622, while NCM811 type which has great potential is still under prior research and development of most battery companies Cathode material structure & NCM function in ternary Li-ion battery, relation between nickel proportion and ternary Li-ion battery property, application of NCM nickelic ternary lithium battery, application of NCM811 battery, China vs. Abroad are the main contents of the speech.



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