# OAK RIDGE NATIONAL LABORATORY

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# Precursor Soot Synthesis of Fullerenes and Nanotubes without Carbonaceous Soot

### **Disclosure Number**

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## **Technology Summary**

A method for the synthesis of fullerenes in precursor soot without the production of amorphous carbon or mature soot. Addition of suitable catalysts to the synthetic precursor soot medium results in the production of nanotubes also without the production of amorphous carbon or mature soot. The synthetic medium is a high-temperature-stable hydrogen liquid. The process of the present invention allows the synthetic medium to be recycled to make more precursor soot. Nanotubes produced in the synthetic medium could readily be formed into fibers, doped or otherwise manipulated to form useful materials.

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#### **Licensing Contact**

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