

## **[N-08] 분과초청**

# **Synthesis and characterization of carbon nanotubes using catalytic chemical vapor deposition**

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Since the first observation of carbon nanotubes, extensive researches have been done for the synthesis using various growth methods. Large-scale synthesis of high-quality carbon nanotubes is particularly important to enable both fundamental studies and various applications. We report the synthesis and characterization of high-quality single-walled carbon nanotubes, double-walled carbon nanotubes and multiwalled carbon nanotubes by catalytic decomposition of carbon containing molecules over catalyst embedded support metals. The growth, structure and growth mechanism of carbon nanotubes will be discussed.