

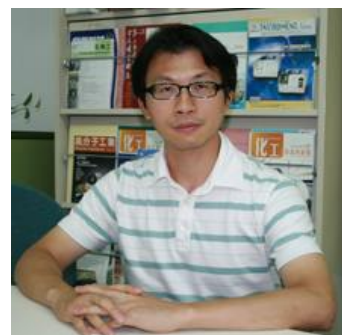


演題: **Synthesis of Functional Nanoporous Materials
for Energy Applications**

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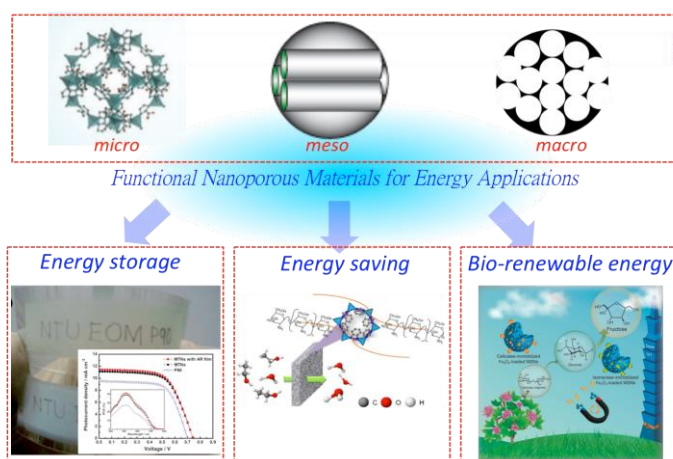


日時: 2016年7月19日(火) 13:00~14:00

場所: 工学部材料・化学棟中会議室 (MC102)

共催: 物質科学フロンティアを開拓する Ambitious リーダー育成プログラム
要旨:

Nanoporous materials can be classified into three categories according to their pore size: microporous (or metal-organic frameworks (MOFs) in this study) (< 2 nm), mesoporous (2 – 50 nm), and macroporous (> 50 nm). These nanoporous materials exhibit high surface areas, controllable morphology (nanoparticle and thin films), and tunable surface functionalities (amino group, thiol group, carboxylic group); therefore, they show great potential in many fields such as adsorption, separation and catalysis. In this talk, I will first describe how we can synthesize functional nanoporous materials with pore sizes in the range of micro-, meso-, and macropores. I will then demonstrate several potential energy-related applications using synthesized nanoporous materials.



本講演は、大学院総合化学院『化学研究先端講義/総合化学特別研究第二』の一部として認定されています。

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