



# 第236回触媒化学研究センター談話会

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**演 題 : Gatekeeping Effect: Multifunctional Mesoporous Silica Nanoparticles for Selective Catalysis and Biofuel Production**

**講演者 : Prof. Victor S.-Y. Lin**

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**日 時 : 2008年6月25日(水)  
15:00 - 16:30**

**会 場 : 北海道大学創成科学研究棟 4階  
セミナー室B・C (04-213・214号室)**

**要 旨 :** We have developed a synthetic strategy for multifunctionalization of mesoporous silica nanoparticle (MSN) materials. This method allows us to tune the relative ratio of different functional groups and the resulting particle morphology of MSNs. Furthermore, we have reported a biomimetic cooperative catalytic system comprised of a series of bifunctionalized MSN materials with various relative concentrations of a general acid and a base group. In addition to the organically functionalized MSN, we have developed a mixed oxide catalyst that contains both Lewis acidic and basic sites for the synthesis of biodiesel from various free fatty acid (FFA)-containing oil feedstocks.

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