

CBC SEMINAR ANNOUNCEMENT



Professor Yusuke Yamauchi
The University of Queensland, Australia

Porous-tectonics: The Total Synthesis of Advanced Porous Materials via Chemical Self-Assembly

Yamauchi's group has been focused on design of novel nanocrystals and nanoporous materials toward various applications including batteries, fuel cells, solar cells, chemical sensors, field emitters, and photonic devices. Specifically, nanoporous metals with metallic frameworks can be produced by using surfactant-based synthesis with electrochemical methods. Owing to their metallic frameworks, nanoporous metals with high electroconductivity and high surface areas hold promise for a wide range of electrochemical applications. Furthermore, he has developed several approaches for orientation controls of tubular nanochannels. The macroscopic-scale controls of nanochannels are important for innovative applications such as molecular-scale devices and electrodes with enhanced diffusions of guest species. In this presentation, we will show our recent progress in new porous systems, "porous-tectonics".

Date: 26th June 2019 (Wednesday)
Time: 2.30 pm to 4.00pm
Venue: MAS Executive Classroom 1,
Level 3
Host: Associate Professor Ling Xing Yi