

**Time TBA**

## **Mesostructured porous carbons from metal-organic coordination and their energy applications**

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Porous carbons have a critical role in addressing the demands on energy- and environment-related issues due to their superior physicochemical properties, wide availability, and mass production. Considerable efforts have been made in carbon technology during the last decade to develop multi-functioned nanostructured carbon materials, both through continuous ameliorant of pre-existing synthetic methods and through introduction of new technologies. In this presentation, however, I will introduce our new synthetic approaches for producing novel mesostructured carbons based on meso-crystals and metal-organic coordination. Mesostructured crystal based synthesis have provided advantageous hierarchical pore architecture with miscellaneous functionality in energy storage and pollutant removal systems. We will show an exemplified porous carbon synthesis based on carbon nitride mesostructure and energy storage application thereof. In addition, we will introduce a facile synthesis of highly-ordered mesostructured carbons based on metal-organic coordination. We presumed that these proposed synthetic approaches will provide a straightforward strategy to design the novel functioned porous carbons.