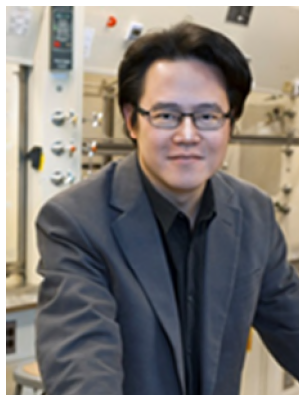


CBC Virtual Seminar Series



Assoc. Prof Chia-Kuang Frank Tsung
Merkert Chemistry Center, Boston College, USA

Engineering the Interfaces between the Encapsulated Catalysts and Metal-organic Frameworks

Heterogeneous catalysis is critical for the prosperity of human civilization. It provides access to the range of chemicals, materials, and fuels we use. Towards the long-term vision of precisely controlling active sites, our group focuses on incorporating various catalysts into crystalline nanoporous materials, metal-organic frameworks (MOFs). The precise molecularly-defined pores intrinsic to the MOFs provide a new tool to control the catalytic transformations on the catalysts. We have developed methods to combine organometallic catalysts, enzymes, and nanoparticle catalysts with MOFs of precisely tuned pore structures to manipulate the reactions.

Biography

Prof. Chia-Kuang Frank Tsung received his undergraduate training at National Sun-Yet Sun University in Taiwan. He then moved on to UC Santa Barbara, where he pursued a doctoral degree in the laboratory of Galen D. Stucky. He then moved to UC Berkeley, where he became a postdoctoral fellow with Gabor Somorjai and Peidong Yang. Prof. Tsung joined the chemistry faculty at Boston College in the summer of 2010 and has established a compelling research program focusing on identifying new approaches to change the behavior of heterogeneous catalysis in a fundamental way.

Date: 22nd May 2020, Friday
Time: 9.00 am to 10.30 am
Venue: Zoom Platform
Host: Associate Professor Ling Xing Yi

For Zoom registration:

