School of Materials Science and Engineering

Seminar Topic:
MOF-Based Functional Materials for CO_2 Capture and Catalysis

Professor Zhao Yanli

Abstract

Functional metal-organic frameworks (MOFs) have been developed for various applications. In this talk, I will discuss our recent research progress by using MOF-based functional materials for different purposes, including (1) CO_2 capture and catalytic conversion, (2) photocatalysis, and (3) catalytic biomedicine in cancer treatment. We have purposely designed MOF-based materials according to the needs. These MOF systems show promising performance on account of their intrinsic properties and functionalities.

Biography

Professor Zhao Yanli received his BSc and PhD degrees in Chemistry from Nankai University. He then conducted his postdoctoral research with Professor Sir Fraser Stoddart at University of California Los Angeles and subsequently at Northwestern University. He joined NTU as a Nanyang Assistant Professor (NRF Fellow) in 2010, and was promoted to Associate Professor in 2015 and Full Professor in 2018.

Dr Zhao has so far authored more than 400 scientific papers. He has received several academic recognitions and awards, including the Highly Cited Researcher by Clarivate Analytics, the Singapore National Research Foundation Investigatorship, the *ACS Applied Materials & Interfaces* Young Investigator Award, the Asian and Oceanian Photochemistry Association Prize for Young Scientists, the TR35@Singapore Award, and the Singapore National Research Foundation Fellowship. He is the Executive Editor of *ACS Applied Nano Materials*.

Dr Zhao's group conducts research in an interdisciplinary area of chemistry and materials with an emphasis on the development of integrated systems for diagnostics and therapeutics, as well as for energy storage and catalysis.

Wednesday, 17 February 2021 ‖ Time: 2:00 pm - 3:00 pm ‖
Live Streaming Link (Zoom Meeting): https://ntu-sg.zoom.us/j/92628680346
Meeting ID: 926 2868 0346 Passcode: 170221
Hosted by: Professor Chen Zhong

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