A NanoBioLab Symposium 2021 Webinar

Prof. Ferdi Schueth, Max-Planck-Institut für Kohlenforschung, Germany

CONTROLLED NANOSTRUCTURES FOR DIVERSE APPLICATIONS

Thursday, March 4, 2021
4:00 - 5:00 pm SGT
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Meeting ID: 969 4979 7494
Passcode: 979582

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ABSTRACT

Nanostructured materials are of high interest in many disciplines in science and technology. One prominent way for the synthesis of such nanostructures is templating, where a mould is used to cast a negative replica. Such processes work on the macroscopic scale, but they can be extended down to the nanometer scale. The seminar will discuss, what kinds of structures and materials can be synthesized by such pathways, and how they can be further modified in a controlled manner to create desired functions, such as for the synthesis of catalysts, battery materials, for energy storage, or as host systems in host-guest materials. At the end, also a brief glimpse on the synthesis of "uncontrolled" nanostructures by mechanochemical methods will be given, since this is an interesting - albeit unusual -pathway for the creation of new materials.

ABOUT THE SPEAKER

Ferdi Schüth studied chemistry and law at Münster University, Germany, and completed his Ph.D. in Chemistry in 1988. After a post-doc with L. D. Schmidt at the University of Minnesota, he joined the group of K. Unger in Mainz for his habilitation. In 1995 he became full professor at Frankfurt University, and in 1998 moved to Mülheim to become a director at the Max-Planck-Institut für Kohlenforschung. He served as vice president of the German Research Foundation (DFG) and until recently as vice president of the Max Planck Society. His research interests include catalysis, porous materials, and energy-related topics.

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Symposium Organizer: Prof. Jackie Y. Ying, A*STAR Senior Fellow, NanoBio Lab

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