

EuroTech Seminar

# Molecular Architectures Losing Their Innocence



**26 May 2021**

15:00-16:00 CET

Zoom link:

<https://us02web.zoom.us/j/85946790723>

**Prof. Kasper S.  
Pedersen**

Department of Chemistry,  
Technical University of Denmark

Reticular structures assembled from predesigned inorganic and organic molecular modules constitute a new class of materials with highly multifaceted physical and chemical properties and virtually unlimited possibilities for synthetic modification and tuning. We are interested in realizing materials with strong electronic correlations and communication between the constituent building blocks, which may be achieved in situations with significant orbital conjugation ("non-innocence"). In this talk, I will discuss our approaches to synthetically tailor non-innocence in molecules and materials, and explain how these simple chemical principles translate into both novel chemical reactivity and charge transport and magnetism, relevant for emerging technologies utilizing molecular and low-dimensional materials.