Séminaire

vendredi 6 février 2026 à 11h00

Amphithéâtre Henri Benoît

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On-target Syntheses of Porous Polymers for Various Energy and Environmental Applications

In a nutshell, porous -organic- polymers are highly crosslinked and rigid analogues of conjugated polymers, which offer high accessible surface areas and hydrothermal stability. They can either be crystalline (a.k.a. covalent organic frameworks (COFs)) or amorphous (e.g. porous aromatic frameworks (PAFs), polymers of intrinsic microporosity (PIMs)) depending on the reaction style. Although being promising for many applications, unveiling their full potential can only be possible through on-target syntheses. In this presentation, building porosity along polymeric backbones by taking structural designing into account will be demonstrated. Selected examples will concern electronic applications such as energy storage photocatalysis, and p-/n- doping.

Dr. Hakan Bildirir received his PhD degree from the Technical University of Berlin in 2015. His expertise is centred on syntheses of organic materials in various textural properties and different sizes from small molecules to infinite polymeric networks. He has worked in several labs to utilize those organic materials for numerous applications such as photocatalysis, electrochemical energy storage, and photovoltaics. Currently, he is affiliated with Institut de Science des Matériaux de Mulhouse (IS2M), and developing novel recyclable photopolymerization initiators operational under natural sunlight irradiation.

Seminar in collaboration with

Les personnes souhaitant rencontrer H. Bildirir sont priées de prendre contact avec Laure Biniek ou Nicolas Leclerc.