

WiSe 2022/2023

Einladung zum Vortrag von

Herrn Dr. Gündog Yücesan
Universität Düsseldorf

Freitag, 03.02.2023, 15:00 Uhr s.t.

Raum: AR – H 102

Titel:

Stable phosphonate-MOFs, COFs, HOFs, and their applications

abstract:

We have used X and Y shaped bridging linkers with arylphosphonic acid metal binding units to construct three different families of microporous materials. The resulting compounds are extraordinary with respect to their chemical and thermal stabilities compared to the known MOF and HOF families. In addition to MOFs and HOFs, we report the first time synthesis of covalent organic frameworks produced from the condensation of arylphosphonic acid units. We explored their semiconductive, optical properties, and used them to store small molecules”