

Condensed Matter Science in Porous Frameworks: On Zeolites, Metal- and Covalent-Organic Frameworks

Metal-Organic Frameworks, Covalent-Organic Frameworks and Zeolites are three classes of highly porous materials which have received an exponentially growing interest over the last decade. While the first two consist of molecular linkers connected through metal(-oxide) or non-metal nodes, the later consists of silicon-oxide based clusters and have a uniform well defined framework. Due to their modular nature, they are highly tuneable allowing for the active design of materials having specific catalytic properties, luminescent or magnetic behaviour. The presence of mechanical properties (such as breathing) is another interesting aspect of some of these materials, while the combination of different properties makes them of interest for sensor-applications. In addition, fine tuning the porosity allows for the use of these materials in sorption and separation processes.

Developments in computational methods and the evolution of computational resources have made these materials also accessible for theoretical approaches, leading to new insights in these materials and the ability to guide the experimental design towards new porous frameworks.

Call for abstracts

We invite both experimental and theoretical researchers studying porous frameworks to submit abstracts for both oral and poster contributions to this colloquium at the CMD26 conference. We invite experimental researchers to present their newly synthesized porous frameworks and investigations of the tuneability of porous frameworks. Theoretical researchers are invited to present their work leading to new and deeper understanding of porous frameworks at the level of their underlying physics and chemistry, but also their predictions of new porous frameworks with interesting physical properties. The colloquium will consist of three sessions focussing on MOFs, COFs and Zeolites respectively, and aims for equal contributions from theoretical and experimental researchers.

Time and Place

The colloquium is part of the CMD26 – Condensed Matter Conference, taking place in the MartiniPlaza Conference Centre in **Groningen, The Netherlands on September 4th-9th, 2016.**

Best Poster Prize

The best poster prize will recognize the high quality of the research presented in poster format, and will be awarded to the presenting author. All posters presented within the symposium are eligible.

More information

CMD26:

<http://cmd26.eu>

Registration:

<http://cmd26.eu/registration/>

Abstract Submission:

<http://cmd26.eu/abstract-submission/>

CMD26 Colloquia:

<http://cmd26.eu/scientific-programme/>

Important dates

- **Deadline abstract submission**
April 30th, 2016
- **Notification of acceptance**
June 1st, 2016
- **Early Bird Registration**
Before June 20th, 2016
- **Conference**
September 4th – 9th, 2016
- **Colloquium Porous Frameworks**
September 5th – 6th, 2016 (tentative)

Colloquium Organisers

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Ionut Tranca
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Colloquium sponsors