

Focus Session O & EPS Colloquium

Molecular Nanostructures on Surfaces New Concepts towards Complex Architectures

Invited Speakers

Richard Berndt, CAU Kiel

Adam Foster, Aalto University

Nian Lin, Hong-Kong University of Science and Technology

José Ignacio Pascual, CIC nanoGUNE San Sebastian

Petra Tegeder, Universität Heidelberg

Organizers

Sabine Maier, FAU Erlangen-Nürnberg

Meike Stöhr, University of Groningen

Topics

- Molecular self-assembly
- Metal-organic networks
- On-surface reactions
- Covalent coupling
- Single molecule chemistry
- Dynamics of molecules on surfaces
- Molecular manipulation
- Molecular switches
- Submolecular imaging

Scope

The planned focus session aims at covering recent progress in both the formation and understanding of complex molecular architectures on surfaces. The bottom-up fabrication of surface-supported molecular architectures is either based on molecular self-assembly utilizing non-covalent intermolecular interactions or covalent on-surface synthesis. This focused session is intended to provide a platform for discussing important aspects of molecular ensembles in contact with metallic, semi-conducting, and insulating substrates. In the focus are recent advances in theory as well as experiments dealing with single molecule chemistry, the understanding and controlled growth of complex molecular self-assemblies and on-surface synthesis of covalent structures.

Abstract submission deadline: 1 December 2017

