

2D14 Nanopatterning with Molecules at a Liquid-Solid Interface: From Structure to Function

(Department of Chemistry, Katholieke Universiteit Leuven)
Steven De Feyter

Self-assembly of molecules on surfaces is a key bottom-up approach for nanopatterning those surfaces. The liquid-solid interface provides a very versatile environment for supporting (multicomponent) self-assembly into complex architectures. Scanning tunneling microscopy is the technique of choice to investigate those self-assembled patterns. In this contribution, we highlight various aspects of liquid-solid assisted self-assembly of molecules, ranging from dynamics and the formation of nanoporous surfaces, to induction of chirality and reactivity. A few representative publications are listed below.

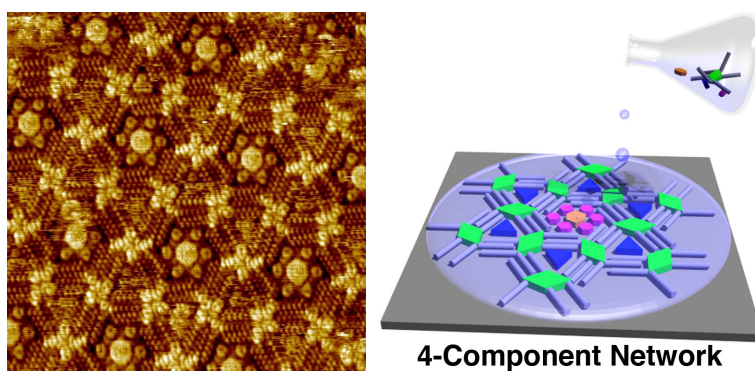


Figure: Multicomponent molecular self-assembly at a liquid-solid interface

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