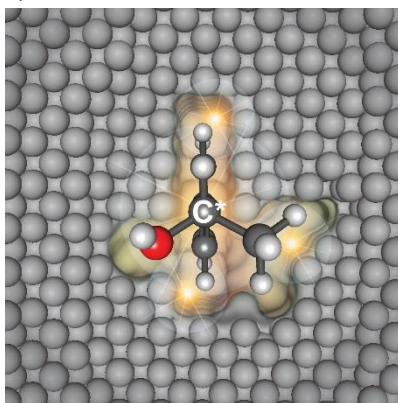




PhD Offer

Chiral synthesis with mesoporous electrodes

Chiral molecules play a very important role in our daily life, for example in the form of active ingredients in drugs. A classical chemical synthesis leads in principle to the formation of racemates. However, legislation increasingly requires marketing in the form of enantiopure compounds. Therefore it is crucial to study new enantioselective synthesis methods. The aim of this thesis is to develop original approaches based on chiral mesoporous electrodes, proposed very recently by our laboratory (Nature Comm 2016, 7: 12678, Nature Comm 2017, 8: 2087), in order to explore alternative strategies for highly enantioselective electrosynthesis.



Keywords: Electrochemistry, Chirality, Enantioselective synthesis

Applicant profile: Strong background in physical chemistry, electrochemistry and materials science.

Financial support: Fellowship via the ERC Advanced project ELECTRA.

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