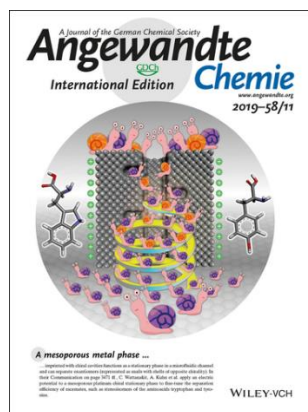




PhD Offer

Unconventional enantioselective analysis and separation of chiral molecules

Chiral molecules play a very important role in our daily live, 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 methods of enantioselective analysis and separation. The objective of this thesis is to develop original approaches, hitherto completely unexplored, firstly to specifically detect one enantiomer, and secondly to quantitatively separate the two enantiomers of a racemic mixture based on our recent results (Angewandte 2019 <https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201900408>)



Keywords: Electrochemistry, Chirality, Chemical analysis, Separation methods

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

Financial support: Fellowship via the ERC Advanced project ELECTRA.

Contacts:

Prof. Alexander Kuhn
kuhn@enscbp.fr
ISM - ENSCBP 16 avenue Pey Berland 33607
Pessac
05 56 84 65 97