Leiden Institute of Chemistry

Energy & Sustainability

A research project related to ‘Energy & Sustainability’ can be done in various groups in the LIC. More information concerning the various research topics can be found at the website of the research groups and researchers, via https://www.universiteitleiden.nl/en/science/chemistry. In a personal meeting with the researcher you can discuss which projects are available and when you can start your research project.

Electrocatalysis & sustainable energy

Marc Koper

Studies electrochemical surface science for sustainable energy and chemistry

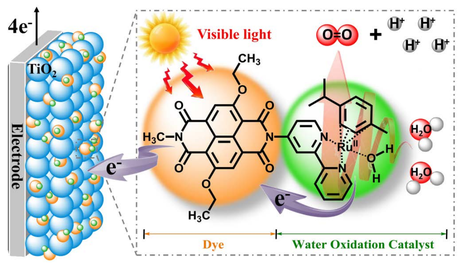
Dennis Hetterscheid

Tries to mimic biological systems for multi-electron processes

Photosynthesis & photocatalysis

Huub de Groot

Aims to understand the fundamentals of direct energy conversion by proteins



Francesco Buda

In silico design of molecular complexes for solar-to-fuel conversion

Anjali Pandit

Investigates structures and performances of photosynthetic proteins

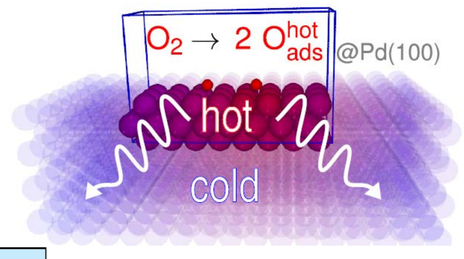
Sylvestre Bonnet

Designs metal-functionalized lipid bilayers for photocatalysis

Theoretical & computational chemistry

Geert-Jan Kroes

Aims to accurately model molecule-metal surface interactions and reaction dynamics

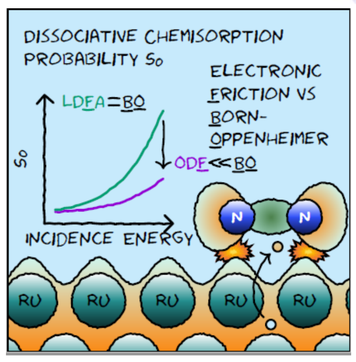


Jörg Meyer

Develops computational methods to understand energy conversion dynamics

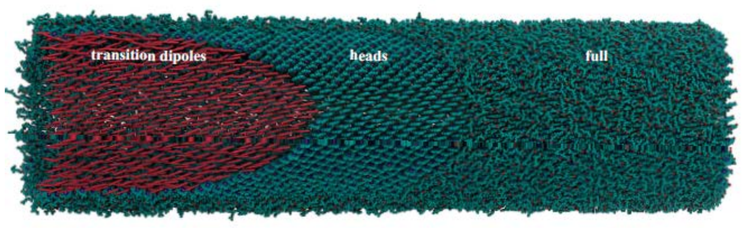
Katharina Doblhoff

Investigates heterogeneous (electro-)chemical reactions using theoretical and computational approaches



Agur Sevink

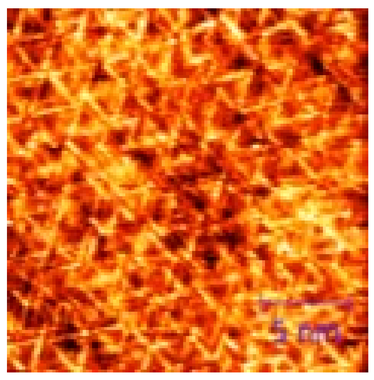
Develops multi-scale models to investigate supramolecular structure and function in (bio)materials



Heterogeneous and homogeneous catalysis

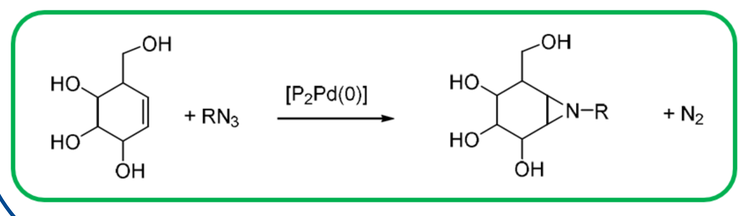
Irene Groot

Studies the nanoscale structure of catalysts under reaction conditions



Ludo Juurlink

Investigates how structural effects of catalysts can be used to our advantage



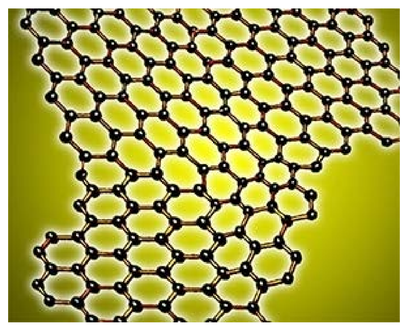
Lies Bouwman

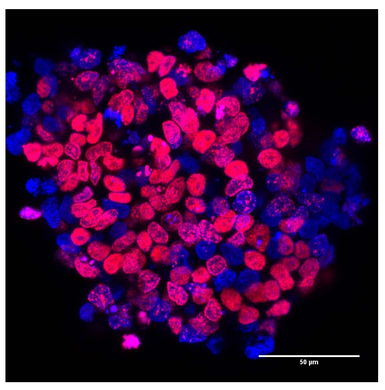
Aims to teach homogenous catalysts to perform novel types of reactions

Development of novel materials

Grégory Schneider

Aims at exploring new chemical and biological sensing routes using graphene





Roxanne Kieltyka

Designs and prepares supramolecular materials for biomedical applications