



Studentische Hilfskraft (HiWi)

Work on a green CO₂-usage technology: CO₂RR

Research area

- Battery
- Fuel cell und electrolysis
- Electrocatalysis

Alignment

- Experiments
- Electrical characterization
- Material analysis
- Measurement developing
- Modelling
- Simulation
- Literature inquiry

Majors

- Electrical- and Information Technology
- Mechanical Engineering
- Materials Science
- Chemical Engineering
- Physics
- Technomathematics
- Industrial Engineering

Languages

- English
- Deutsch

Start

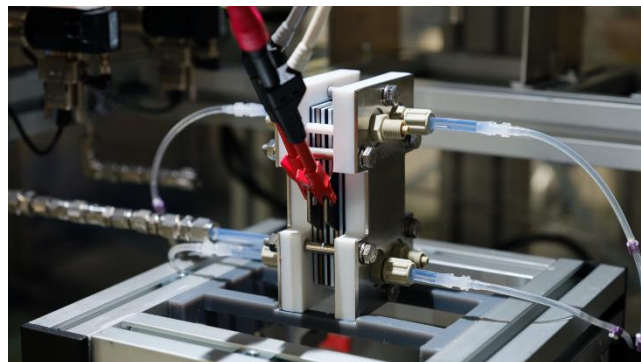
Asap

Contact person

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Motivation

Would you like to contribute to a CO₂-neutral future? Electrochemical CO₂ reduction (CO₂RR) is an electrochemical synthesis technology that uses carbon dioxide as a raw material to produce high-value chemicals. Instead of increasing carbon dioxide emissions, this process consumes carbon dioxide! In this HiWi work you will contribute to reducing CO₂ in high-value organic products. Based on your work, we design the reactor so that your work has practical application value.



Area of responsibility:

- Investigate electrochemical CO₂ reduction systematically using electrochemical methods such as CV and EIS.
- The variables are temperature, mass transfer, etc.

Hints

We offer you excellent support and the opportunity to work in an interdisciplinary team in a forward-looking subject area. Ability to work independently and the motivation to familiarize yourself with new subject areas are required. You can obtain further information from your contact person Dr.-Ing. Qing Gong at any time.s