

Modulbezeichnung: Homogeneous Catalysis - Lab (HomCatal-Lab) **5 ECTS**
(Homogeneous Catalysis - Lab)

Modulverantwortliche/r: Sjoerd Harder

Lehrende: Karsten Meyer, Romano Dorta, Svetlana Tsogoeva, Andriy Mokhir, Sjoerd Harder

Startsemester: SS 2022

Dauer: 1 Semester

Turnus: jährlich (SS)

Präsenzzeit: 105 Std.

Eigenstudium: 45 Std.

Sprache: Englisch

Lehrveranstaltungen:

- Attendance in lab course is compulsory!
- Attendance at safety instructions is compulsory!
- A valid laboratory insurance is mandatory for participation in the lab course - see: www.laborversicherung.de

Homogenous Catalysis - Lab (SS 2022, Praktikum, Sjoerd Harder et al.)

Inhalt:

Students

- Students get in touch with modern research topics in the field of homogenous catalysis & research tools or advanced spectroscopic tools (Practical work in one of the involved research groups!)
- deepens her/his knowledge in special topics of homogeneous catalysis that are in the research focus of the involved research groups
- will be trained in the practical aspects of advanced homogeneous catalysis

Lernziele und Kompetenzen:

Students

- get in touch with modern research topics in the field of homogenous catalysis & research tools or advanced spectroscopic tools
- manage the preparation and full characterization of catalysts
- learn methods to evaluate catalyst performance in a series of catalytic reactions and are able to discuss scope and relevance

Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:

Das Modul ist im Kontext der folgenden Studienfächer/Vertiefungsrichtungen verwendbar:

[1] Chemistry (Master of Science)

(Po-Vers. 2020w | NatFak | Chemistry (Master of Science) | Ergänzende Wahlpflichtmodule | Advances in Homogenous Catalysis | Homogeneous Catalysis - Lab)

[2] Molecular Science (Master of Science)

(Po-Vers. 2020w | NatFak | Molecular Science (Master of Science) | Compulsory elective module | Advances in Homogenous Catalysis | Homogeneous Catalysis - Lab)

Studien-/Prüfungsleistungen:

Homogeneous Catalysis - Lab (Prüfungsnummer: 65241)

Prüfungsleistung, Praktikumsleistung

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

Graded Lab Protocol of 30 - 50 pages (plus raw data documentation)

Prüfungssprache: Englisch

Erstablingung: SS 2022, 1. Wdh.: WS 2022/2023

1. Prüfer: HomoCat-Lab (N70018)

Organisatorisches:

Homogenous Catalysis - Lab can only be taken in summer term!

Please note:

- Students have to register for the module (check registration periods)!
- Lab course Homogenous Catalysis - Lab (HomCatal-Lab) is held as an in-class-course!

The lab course takes place in one of the participating research groups!

Bemerkungen:

The compulsory elective module "Advances in Homogenous Catalysis" can only be taken as a whole (HomCatal-1 - 3 + HomCatal-Lab).

Module compability:

- Lab module within the Compulsory Elective Module (20 ECTS)!
- Lab module as part of the elective module (5 ECTS, not graded)!