
Modulbezeichnung: Energy Materials - Lab (EnMat-Lab) 5 ECTS
 (Energy Materials - Lab)

Modulverantwortliche/r: Dirk Guldi

Lehrende: Christian Ehli, Dirk Guldi

Startsemester: WS 2020/2021	Dauer: 1 Semester	Turnus: halbjährlich (WS+SS)
Präsenzzeit: 105 Std.	Eigenstudium: 45 Std.	Sprache: Englisch

Lehrveranstaltungen:

- Attendance at 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

Energy Materials - LAB (WS 2020/2021, Praktikum, 7 SWS, Dirk Guldi et al.)

Inhalt:

- Practical introduction to electrochemical techniques
- Guided work on the characterization of electroactive materials
- Attempts to solve independently a scientific problem
- Documentation of experimental results

Lernziele und Kompetenzen:

Students

- plan and perform own electrochemical experiments
 - characterize electroactive materials by common electrochemical methods
 - analyze, interpret, and discuss electrochemical experimental results
 - discuss and evaluate current electrochemical publications.
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Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:

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

[1] **Molecular Science (Master of Science): ab 1. Semester**

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

Studien-/Prüfungsleistungen:

Energy Materials - Lab (Prüfungsnummer: 65441)

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: WS 2020/2021, 1. Wdh.: SS 2021

1. Prüfer: Dirk Guldi

Organisatorisches:

Please note:

- Students have to register for the module (check registration periods)!
- Lab course **Energy Materials - Lab** (EnMat-Lab) is held as an in-class-course!

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

Bemerkungen:

- Within the Compulsory Elective Module "Advances in Energy Materials" in M.Sc. Chemistry or M.Sc. Molecular Science (20 ECTS)!
- The module can be taken as part of the Elective Module (5 ECTS, not graded)!