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

Modulverantwortliche/r: Dirk Guldi  
Lehrende: Christian Ehli, Dirk Guldi

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

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#### 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](http://www.laborversicherung.de)
- Energy Materials - LAB (SS 2021, Praktikum, 7 SWS, Dirk Guldi et al.)

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#### 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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#### 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: SS 2021, 1. Wdh.: WS 2021/2022  
1. Prüfer: Dirk Guldi

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#### 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)!