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Nachhaltig mobil am Oberrhein

Transfer offer

Battery characterization

Measurement campaigns and/or research projects

At the battery laboratory of Offenburg University, extensive equipment is available for the diagnostics of lithium-ion battery cells and modules. The diagnostics include, for example, performance, cycle, and aging tests, as well as the characterization of cell capacity, internal resistance, and alternating current resistance (impedance). In addition to experimental measurements, we also offer the evaluation of these tests. Furthermore, by opening cells under a protective gas atmosphere, post-mortem diagnostics of electrodes and other cell components can be conducted.

Equipment

- Battery cyclers with maximum currents ranging from 5 A to 800 A and voltages up to 80 V, impedance spectrometer.
- Temperature test chambers (-40°C to +180°C) in various sizes for lead-acid and lithium batteries.
- Glovebox for working under a protective gas atmosphere, opening commercial cells, harvesting cell components, as well as light and scanning electron microscopy.

Further information

https://riz.hs-offenburg.de/labore/enerlab-40

Your benefits

- Precise battery cyclers
- High availability
- Expertise in analysis

Cooperation

Measurement campaigns, research projects

Fields of application

Lithium-ion batteries (battery cells, battery modules, and battery systems), lead-acid batteries

Expert contact

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