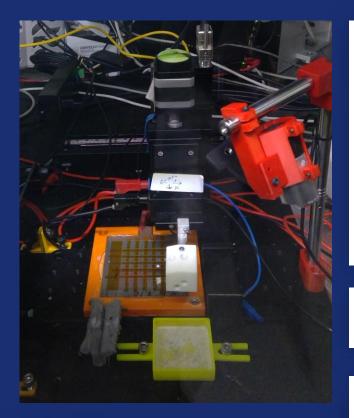
Scanning Droplet Cell (SDC)





Description

Use cases

- Investigation of SEI formation
- Studies analyzing different electrolyte formulations and/or electrode materials in half-cells

Specifications

- Mobile miniaturized electrochemical cell positioned with force sensor control
- Maximum force 2 N (resolution 0.5 mN)
- PTFE tip
- Large samples and demanding sample contours accessible with linear stages up to 145 mm travel

Further information

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Automated operation possible with HELAO

Publications

- [1] Rahmanian, F. *et al.* Autonomous millimeter scale high throughput battery research system. *Digital Discovery* **3**, 883–895 (2024).
- [2] Rahmanian, F. et al. Enabling Modular Autonomous Feedback-Loops in Materials Science through Hierarchical Experimental Laboratory Automation and Orchestration. Advanced Materials Interfaces 9, 2101987 (2022).

