

Electrochemical Investigation of the Formation in Lithium-Ion-Batteries depending on Impurity Additives

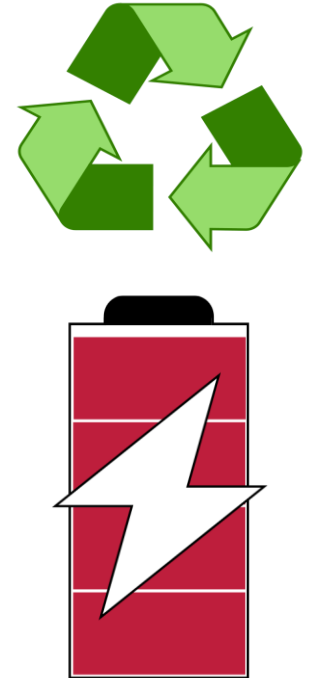
Announcement of a master thesis at elenia and iPAT (cooperation)

Motivation

- Increasing importance of battery recycling in view of the rising number of electric vehicles
- Recycling process leads to contaminants being introduced into secondary battery
- Understanding interesting behavior of an impurity group on formation in lithium-ion batteries

Problems/Tasks

- Research work on recycling of lithium-ion batteries
- Practical tests with e.g. cyclic voltammetry, post-mortem analysis and cyclic studies for scanning different additives
- Possibility to develop a cell equivalent circuit model based on experimental data



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