

PROJECT

ISALIB

Intrinsic Safety and Risk of Automotive Li-Ion Batteries

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Funding: National (Austria)

Duration: Aug 2014 - Dec 2017

Status: Complete



Objectives:

Current electrified vehicles predominantly use Li-ion battery systems. Li-ion battery features high energy density as well as good durability. However, critical operating conditions can lead to a thermal runaway reaction and intense heat evolution as well as to gas release. In the project ISALIB the intrinsic risk of thermal runaway depending on the used materials (anode type, cathode type, electrolyte) and the type of error (over temperature, over load and so on) is examined. The result is the comprehensive risk assessment of the relevant automotive applications for Li-ion batteries.

Parent Programmes:

[MOTF - Mobility of the Future](#)

Institute type: Public institution

Institute name: FFG - Die Österreichische Forschungsförderungsgesellschaft

Funding type: Public (national/regional/local)

Other programmes: MdZ - 3. Ausschreibung (2013)

Lead Organisation:

Technische Universität Graz Institut Für Chemische Verfahrenstechnik Und Umwelttechnik

Address:

Inffeldgasse 25
8010 Graz
Austria

Partner Organisations:

Kompetenzzentrum - Das Virtuelle Fahrzeug Forschungsgesellschaft M.b.h.

Address:

Inffeldgasse 21a / 1. Stock
8010 GRAZ
Austria

Organisation Website:

<http://www.v2c2.at>

Samsung Sdi Battery Systems GmbH

Address:

Frikusweg 1
8141 Zettling

Technologies:

Electric vehicle batteries (and energy management)
Li-ion fire suppression techniques

Development phase: Research/Invention

Transport electrification, Vehicle design and

STRIA Roadmaps: manufacturing

Transport mode: Road transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Safety/Security

Geo-spatial type: Other