

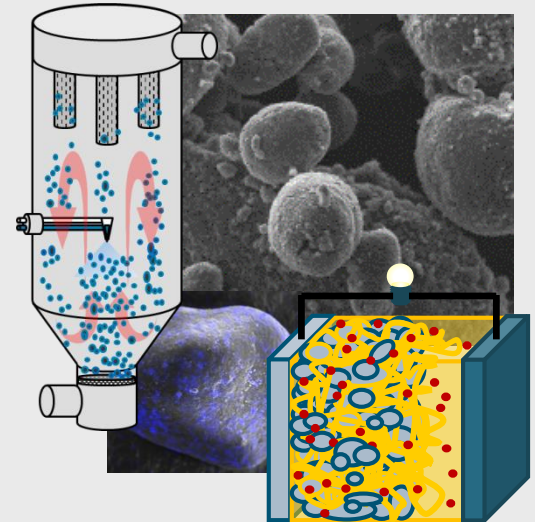


# The Future of Electromobility All-solid-state batteries

All **Solid state batteries** (ASS) offer the potential for future energy sources in electromobility. They typically having a solid electrolyte. Through the use of solid electrolytes, all Solid State batteries provide higher energy densities while improving safety. There is a current need for research and development for technical feasibility.

The individual components show a different behavior towards ambient conditions. The processability of the battery materials can be facilitated by an **optimized surface design** of the cathode composites. The realization of thin nanoparticle films is useful to improve the flowability, stability against moisture and storage stability. Concurrently, the **ionic and the electrical conductivity** should be guaranteed.

Due to the great variety of influencing factors, the implementation can be individually discussed. Depending on your interest, this work can have different **experimental tasks**.



## Note:

Suitable for Bachelor's, Master's and Master's thesis in the fields of bioengineering, chemical engineering, mechanical engineering and biotechnology.

## Start:

## Contact:

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