

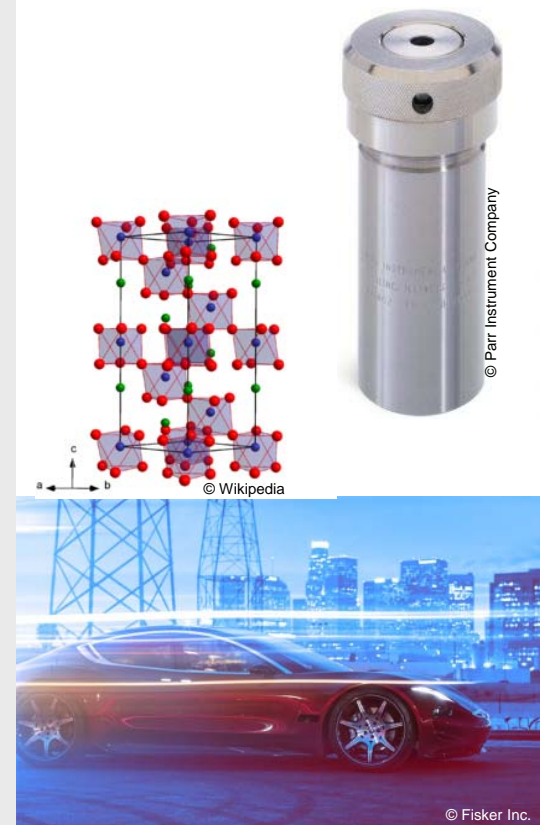


Synthesis of LiNbO_3 nanoparticles for application in Li-All-Solid-State batteries

All-Solid-State Batteries give high potential for future energy sources in electromobility. With their solid electrolyte these cells have a higher energy density and improved safety than regular Li-Ion battery cells. For the technical realization there is high demand for research and development.

With an optimized design of the surface of the cathode composites, the processability of intermediate products can be improved. Additionally, the realization of nanoparticulate thin films can increase the stability against moisture as well as the storability, so that the ionic and electrical conductivity is maintained.

This research topic focuses on the evaluation of the synthesis of LiNbO_3 nanoparticles as suitable candidates for the coating of cathode composite particles via different synthesis routes.



Annotation:

Depending on the duration and the type of thesis (B.Sc./Project/M.Sc.), the scope of the research can be adjusted

Start:

Anytime

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