

Method and apparatus for in-situ drying investigation and optimization of slurry drying methodology

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Technology Summary

Electrode processing for lithium ion batteries and other applications using slurry casting techniques require drying of the casted film or coating. Typically drying procedures are determined and “optimized” by trial and error utilizing a variety of drying temperatures, times, casting thicknesses, solid loadings, and slurry composition with binder, surfactant and other additives. The parameter envelope is partially restricted by material properties such as evaporation temperatures, vapor pressure, decomposition temperatures. The invention provides a method for in-situ drying.

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