

Aqueous Processing of Composite Lithium Ion Electrode Material

Disclosure Number

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Technology Summary

The use of highly toxic and flammable solvents in the manufacturing of batteries with voltages of higher than 1.3V for applications such as electric drive vehicles and stationary electrochemical energy storage are driving processing approaches to less toxic, aqueous techniques. However, aqueous systems pose major problems during the processing route including agglomeration and drying. This invention describes the materials and processes to make water based processing possible and engineer dispersions for successful deposition and drying of such electrodes.

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