Improving Li-ion Performance Through Mechanical Stimulation

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The Hypothesis: Mechanical stimulation of lithium-ion cells influences a cell’s electrochemical performance.

The Objective: To understand the influence of mechanical stimulation on cells and to predict the requisite level and orientation of mechanical loading for maximum lithium-ion battery performance.

The Method: A combined experimental and computational approach to understand and produce a thermally, mechanically and electrochemically coupled predictive battery model, aiding engineers in the cell and pack design process.

References: