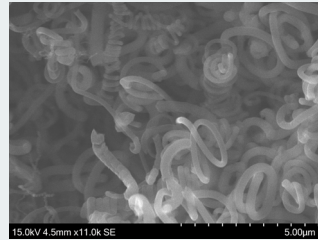


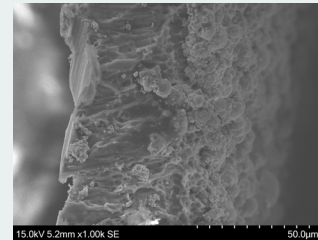
## Purpose and aim

This study optimizes Nickel plating for iCL-CNT electrode synthesis on etched aluminum, enhancing supercapacitor performance. Electroless plating enables cost-effective mass production, harnessing CNTs' high surface area for improved charge storage. These advancements address the need for rapid charging, longer lifespan, and high power density in supercapacitors.

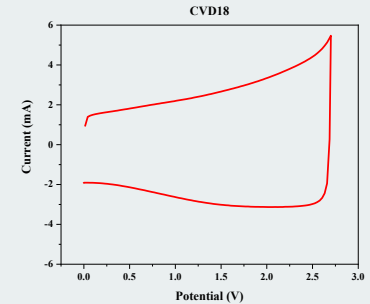
## Results, important findings



SEM image of CNT



SEM image of Ni-Particle



CV-Curve

The measured electrode capacitance is **805 mF/cm<sup>2</sup>**, and the measured cell capacitance is 382 mF.

## Nickel Plating Process Development for Supercapacitor Electrode Fabrication



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