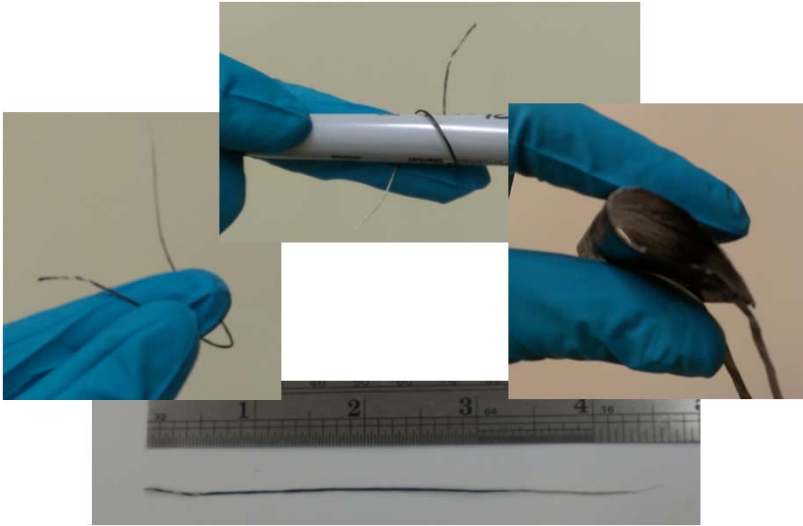


Flexible Electrochemical Energy Storage Devices



Objective:

Develop electrochemical devices with structural flexibility while maintaining or increasing device energy and power densities.

Approach:

- Understand the structure-property relationships of carbon nanotube networks as a primary and multifunctional component of electrochemical devices.
- Investigate unique manufacturing methods to enable high-performance, multifunctional and scalable technologies for lightweight, flexible and high-performance challenging applications.

Impact:

Develop lightweight, flexible energy storage devices to:

- Reveal carbon nanostructure effects on electrochemical process and energy storage performance
- Enable the development of next generation flexible and wearable electronics
- Reduce design restrictions of products by providing energy storage solutions that can conform to various geometries, sizes, shapes etc.

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Facilities and Infrastructure:

- Electrical and electrochemical characterization equipment
- Surface area and pore size analyzers
- Composites and nanocomposite manufacturing facilities