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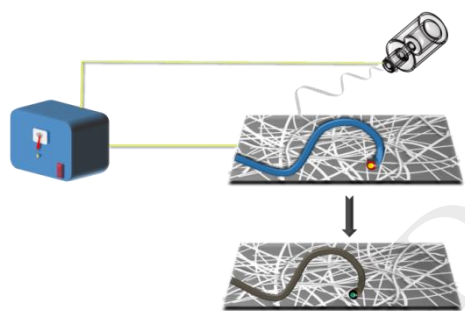
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Graphical abstract

The results from electrochemical testing show that binder-free and self-standing core-shell N-doped C@SnO₂ fibers exhibit large initial capacity and excellent flexibility as anode for Li-ion batteries.



Highlights

- Core-shell N-doped C@SnO₂ fibers were prepared from electrospun technique.
- N-doped C@SnO₂ fibers deliver a large initial capacity of 1799 mAhg⁻¹.
- N-doped C@SnO₂ fabrics exhibit good electrochemical behavior and flexibility.
- N-doped C@SnO₂ fabrics remain high reliability after harsh mechanical operation

Abstract

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