

# Supporting Information

## A Magnetic-Assisted Self-Healable Yarn-Based Supercapacitor

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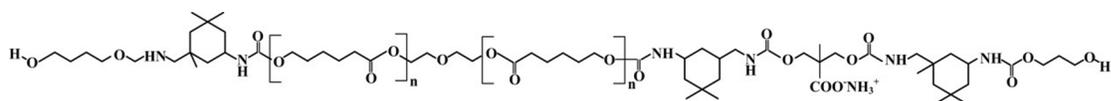
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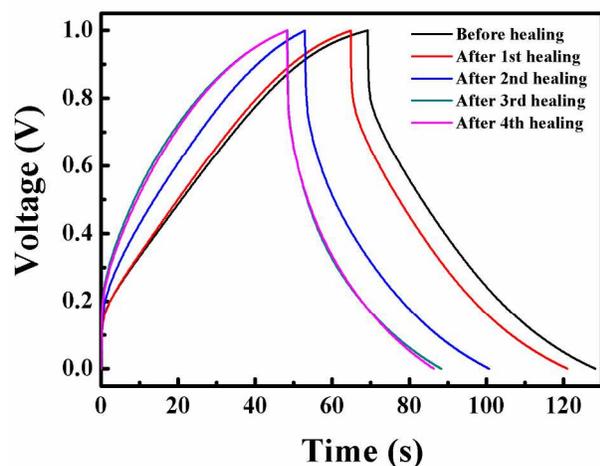
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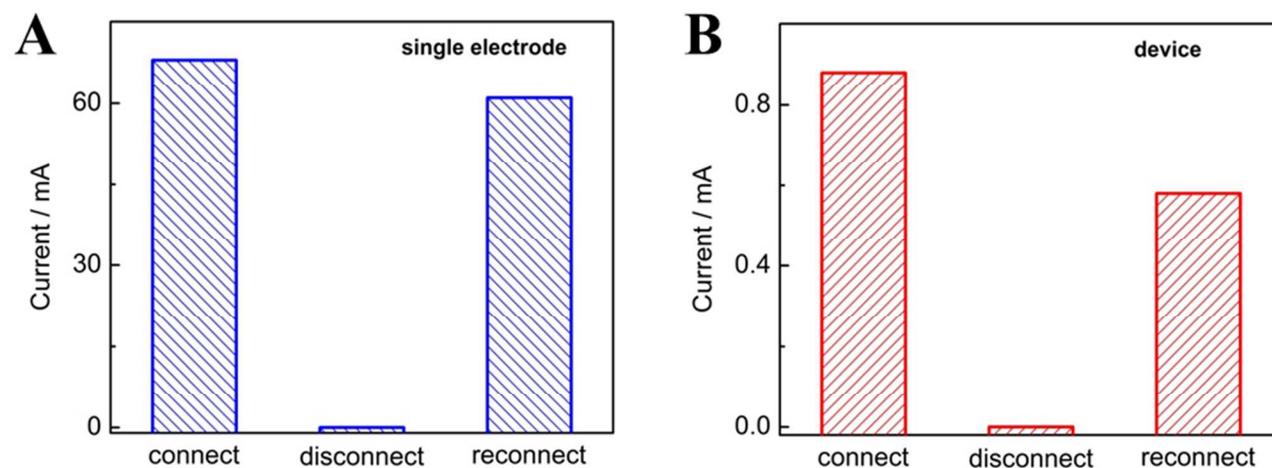
<sup>1</sup> Yang H. and Yan H. contributed equally to this work.



**Figure S1.** Chemical structure of Polyurethane.



**Figure S2.** Galvanostatic charge-discharge measurements of the self-healing supercapacitor before healing and after multiple self-healings at a current density of  $1.2 \text{ mA cm}^{-2}$ .



**Figure S3.** Current passing through LED lights during connection, disconnection and reconnection of (A) the single electrode, and (B) the supercapacitor device.