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## **Supporting information**

Bending properties of functionalized cotton fiber:

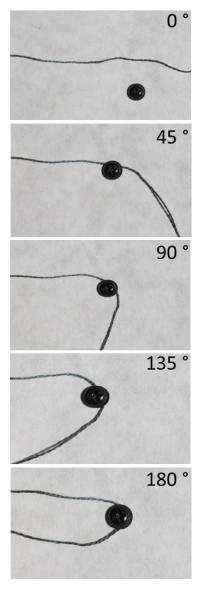


Figure S1: Cotton fiber functionalized with PEDOT:PSS at different bending angles

| Bending Angle    | 0 ° | 45 ° | 90° | 135 ° | 180° |
|------------------|-----|------|-----|-------|------|
| (degrees)        |     |      |     |       |      |
| Fiber Resistance | 52  | 54   | 55  | 54    | 58   |
| (KOhm)           |     |      |     |       |      |

Table S2: Resistance along the whole functionalized cotton fiber (11 cm) in function of bending angle

The cotton fiber retains bending properties after the PEDOT:PSS functionalization. No significant changes in conductivity are measured.