Highly Conductive PEDOT:PSS Treated by Sodium Dodecyl Sulfate for Stretchable Fabric Heaters

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Supplementary Figure 1.

Fig. S1 (a) Average conductivity and (b) thickness of PEDOT:PSS film blended by ionic agents with various functional groups
Supplementary Figure 2.

Fig. S2 UV-Vis/NIR absorption of SDS solution (40 mM)
Supplementary Figure 3.

**Fig. S3** Raman spectra of pristine- and B-PEDOT:PSS films
Supplementary Figure 4.

**Fig. S4** Sheet resistance of D-PEDOT:PSS-cotton and BD-PEDOT:PSS-cotton
Supplementary Figure 5.

Fig. S5 Optical images of polyurethane and cotton substrates
Supplementary Figure 6.

**Fig. S6** Sheet resistance of BD-PEDOT:PSS-cotton and –polyurethane with respect to the number of coating cycles.
Supplementary Figure 7.

**Fig. S7** Schematic of strain experiment for PEDOT:PSS-fabric. Electrodes were formed by using Ag paste.
Fig. S8 SEM images of BD-PEDOT:PSS-polyurethane before and after loading 150% tensile strain.
Supplementary Figure 9.

Fig. S9 Schematic and optical images after stretching SDS modified PEDOT:PSS films spin-coated on PDMS substrate.
Supplementary Figure 10.

Fig. S10 Saturated temperature of BD-PEDOT:PSS-cotton with respect to tensile strain. The dotted and single lines correspond to the calculated and experimental data, respectively. The 12 V was applied at 26 °C.