
Supplementary material
**Flexible and Wearable Strain Sensor Based on Electrospun Carbon Sponge/
Polydimethylsiloxane Composite for Human Motion Detection**

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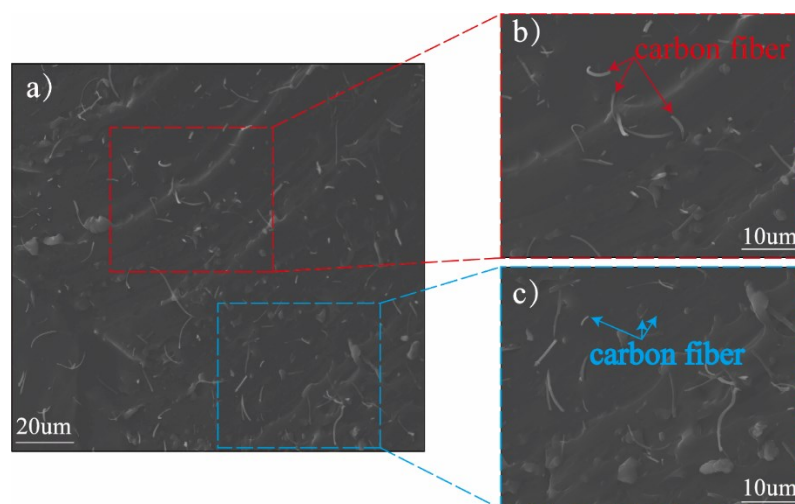


Fig. S1 a) The SEM of the CS/PDMS composite, b) The zoomed-in section of b. c) The zoomed-in section of b.

The fracture surface of the CS/PDMS composite is shown in Fig. S1, carbon fibers are loosely spreading in PDMS and the CS's 3D structure had been well maintained after encapsulation by PDMS.

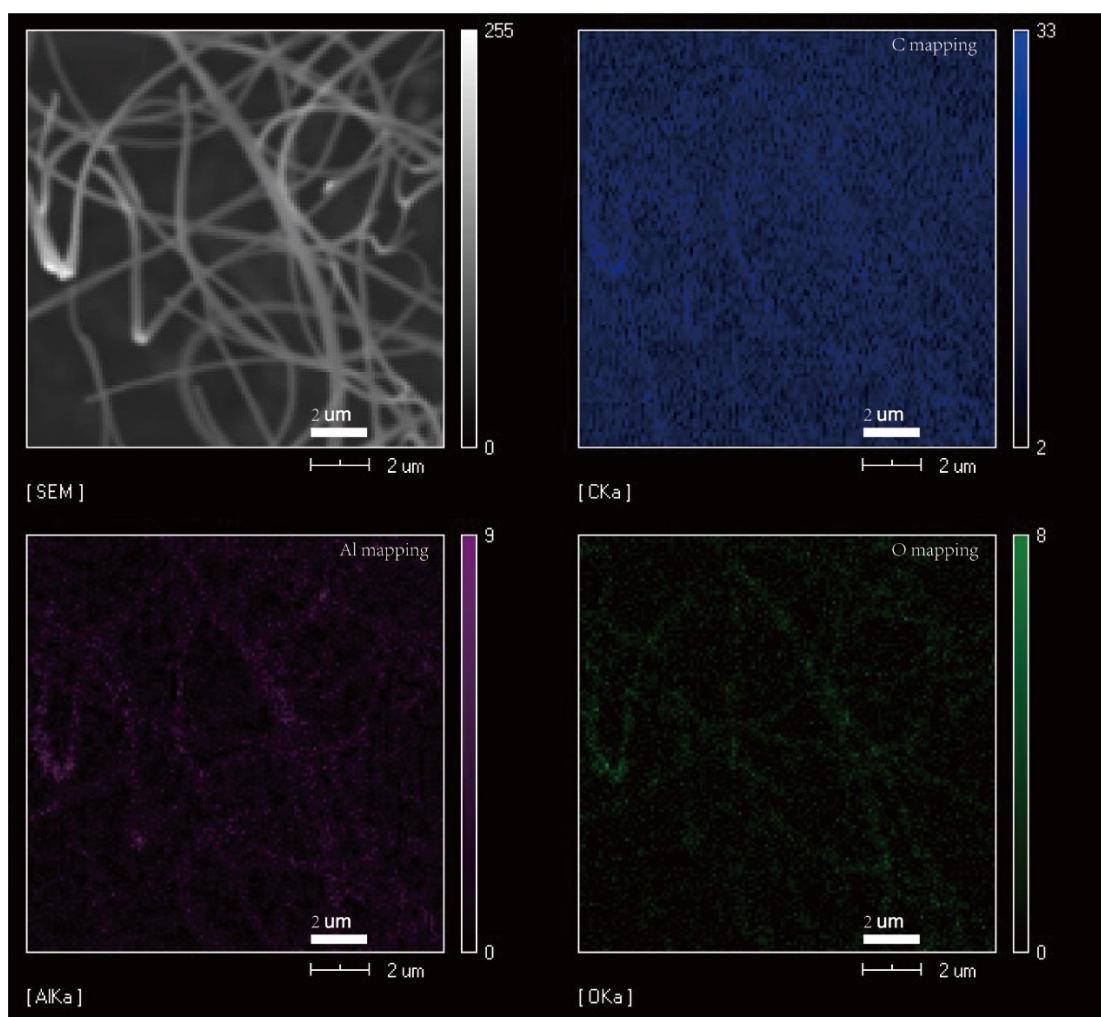


Figure. S2 Corresponding elemental mapping images of the CS surface, which indicates that Al_2O_3 is evenly distributed in the carbonized fibers.

Supplementary Movie 1

Description: Movie 1 showing the excellent flexibility of CS during pressing and folding.

Supplementary Movie 2

Description: Movie 2 detection of wrist joint bending.

Supplementary Movie 3

Description: Movie 3 detection of bending angle of index finger.