

Supplementary

# All-Fabric-Based Flexible Capacitive Sensors with Pressure Detection and Non-Contact Instruction Capability

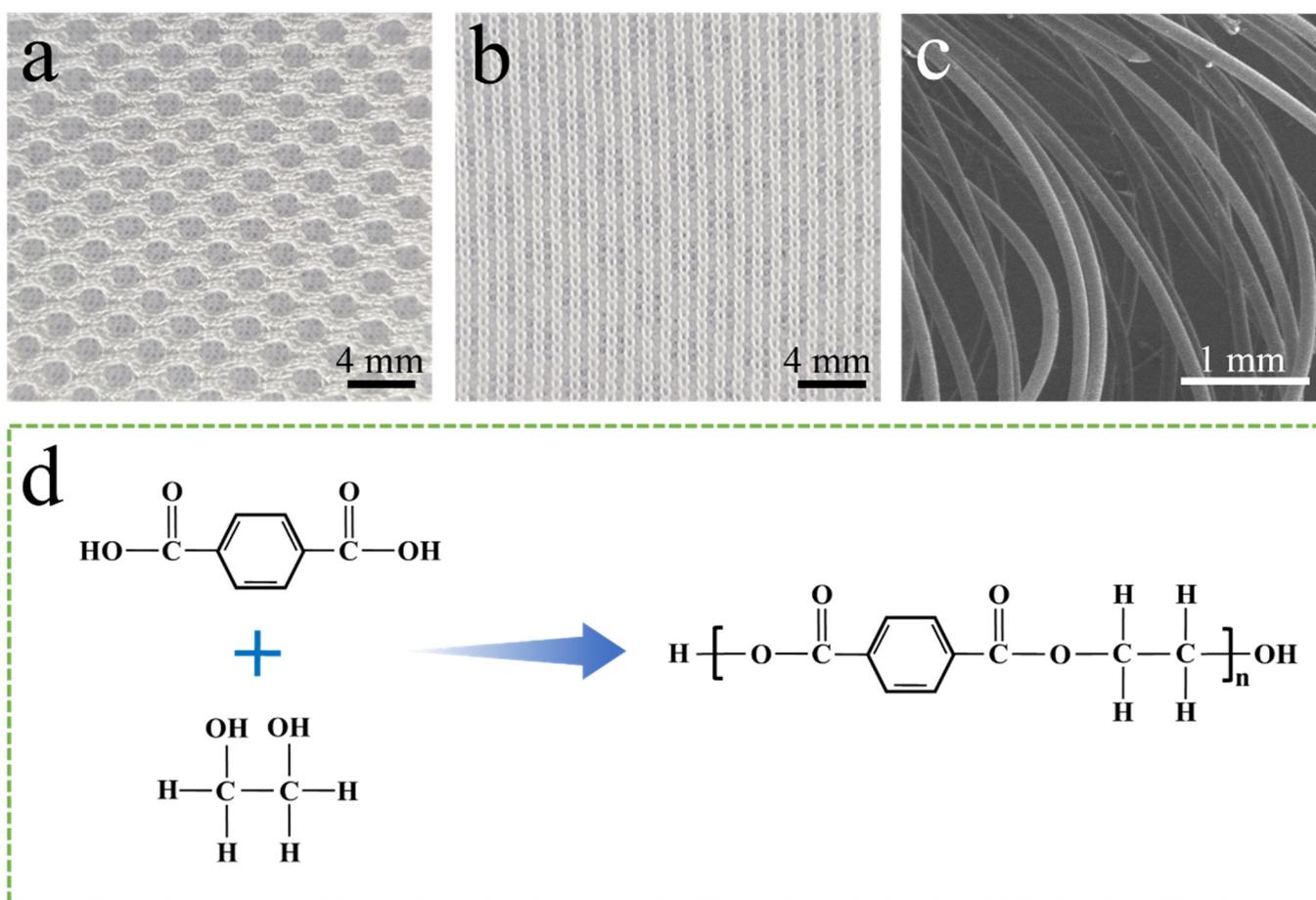
Xiaorui Ye <sup>1</sup>, Mingwei Tian <sup>1,2,\*</sup>, Ming Li <sup>1</sup>, Hang Wang <sup>1,2,\*</sup> and Yangcheng Shi <sup>3</sup>

<sup>1</sup> Research Center for Intelligent and Wearable Technology, College of Textiles & Clothing, Qingdao University, Qingdao, Shandong 266071, P.R. China; yexiaorui19@126.com (X.Y.); lm9609@163.com (M.L.)

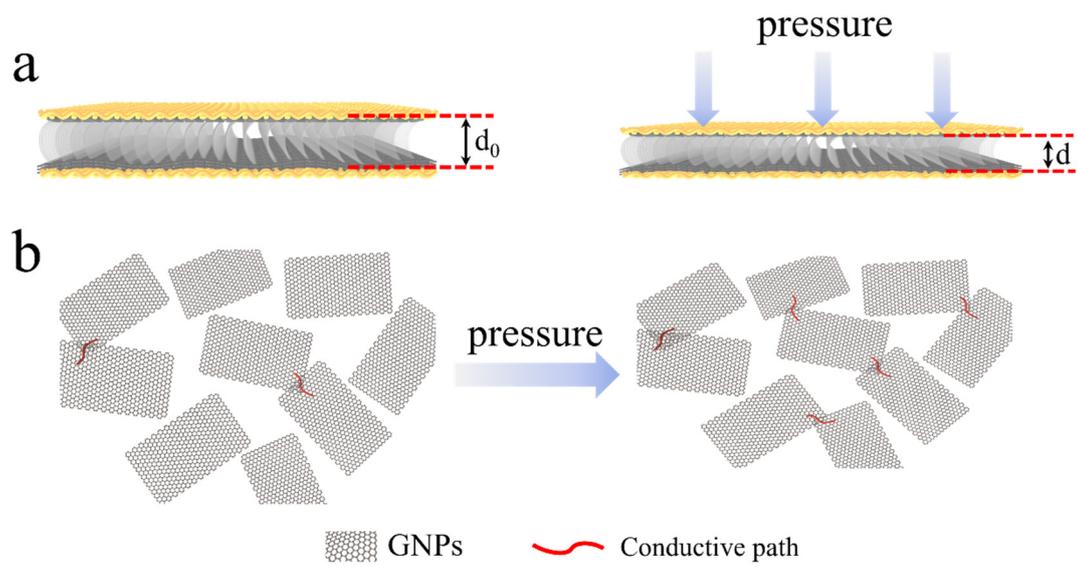
<sup>2</sup> State Key Laboratory of Bio-Fibers and Eco-Textiles, Collaborative Innovation Center for Eco-textiles of Shan-dong Province and the Ministry of Education, Intelligent Wearable Engineering Research Center of Qingdao, Qingdao University, Qingdao, Shandong 266071, P.R. China

<sup>3</sup> Anhui Disheng weaving & finishing Co., Ltd., Bozhou, Anhui 233600, P.R. China; shiyangcheng@163.com

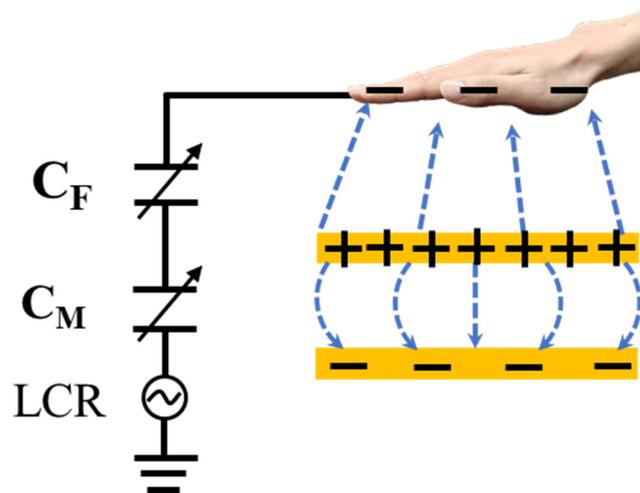
\* Correspondence: mwtian@qdu.edu.cn (M.T.); wanghang@qdu.edu.cn (H.W.)



**Figure S1.** (a) Upper honeycomb structure, (b) lower knitted structure and (c) support yarns FESEM images of the HF.



**Figure S2.** The mechanism diagram of pressure sensing. (a) The variation of electrode distance ( $d$ ) under external pressure. (b) Schematic illustration of the hybrid conductive network constructed by GNPs.



**Figure S3.** The mechanism diagram of non-contact sensing.