

Supplementary Materials

Dual-function core-shell nanocube probes enabling continuous production of cortisol-sensing yarns via conjugate electrospinning

Jiang Cheng, Naihui Hou, Tengda Wang, Zhenyun Zhao^{*}, Wei Chen^{*}

National Engineering Lab for Textile Fiber Materials and Processing Technology, School of Materials Science and Engineering, Zhejiang Sci-Tech University, Hangzhou 310018, Zhejiang, China.

***Correspondence to:** Dr. Zhenyun Zhao, Prof. Wei Chen, National Engineering Lab for Textile Fiber Materials and Processing Technology, School of Materials Science and Engineering, Zhejiang Sci-Tech University, Hangzhou 310018, Zhejiang, China. E-mail: zhaozhenyun@zstu.edu.cn; wchen@zstu.edu.cn

ORCID: Zhenyun Zhao (0000-0002-3680-8832), Wei Chen (0000-0001-9527-110X)

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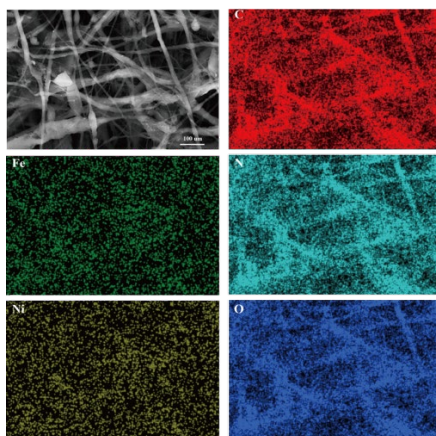
Supplementary Figure 1 | Scanning electron microscopy (SEM) images and comprehensive energy-dispersive X-ray (EDS) elemental mapping of the sensing fiber surface.

Supplementary Figure 2 | EIS of yarns prepared through different cycles (2, 4, and 6) of the conjugate electrospinning process.

Supplementary Figure 3 | LSV response of the sensing fiber to a fixed cortisol concentration (1 $\mu\text{mol/L}$) across different pH values.

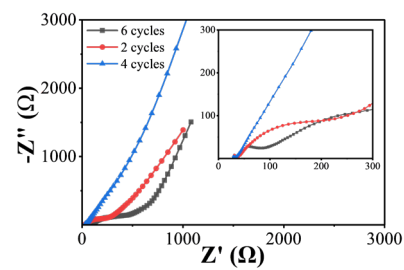
Supplementary Movie.1 | Diffusing process of the droplet on sensor yarn.

Supplementary Movie.2 | Hydrophilic contact-angle characterization of the electrospun sensing membrane.

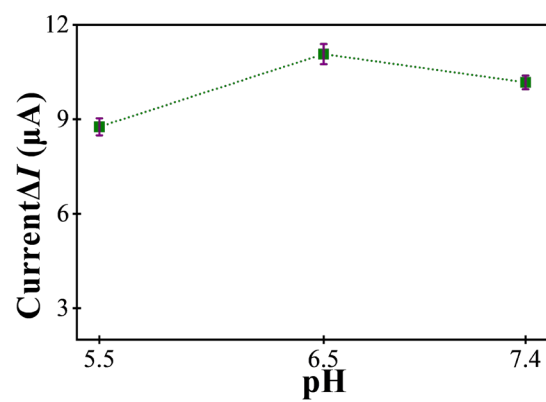


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Supplementary Figure 1. Scanning electron microscopy (SEM) images and comprehensive energy-dispersive X-ray (EDS) elemental mapping of the sensing fiber surface.



Supplementary Figure 2. EIS of yarns prepared through different cycles (2, 4, and 6) of the conjugate electrospinning process.



Supplementary Figure 3. LSV response of the sensing fiber to a fixed cortisol concentration (1 $\mu\text{mol/L}$) across different pH values ($n = 3$).