

Supplementary information

Biomimetic Epidermal Sensors Assembled from Polydopamine-Modified Reduced Graphene Oxide/Polyvinyl Alcohol Hydrogels for Real-time Monitoring of Human Motions

Hua Zhang^{a,b,#}, Penggang Ren^{a,#,*}, Fan Yang^{a,b,#}, Jing Chen^b, Chenxu Wang^b, Yang Zhou^b, Jun Fu^{c*}

- a. School of Materials Science and Engineering, Xi'an University of Technology, Xi'an 710048, China.
- b. Ningbo Institute of Materials Technology & Engineering, Chinese Academy of Sciences, Ningbo 315201, China.
- c. School of Materials Science and Engineering, Sun Yat-sen University, Guangzhou 510275, China.

These authors contributed equally to this work.

Corresponding author: Tel.: +8613991363946 (P. G. Ren); +8615968424387 (J. Fu).

E-mail: rengpg@126.com (P. G. Ren); fujun8@mail.sysu.edu.cn (J. Fu).

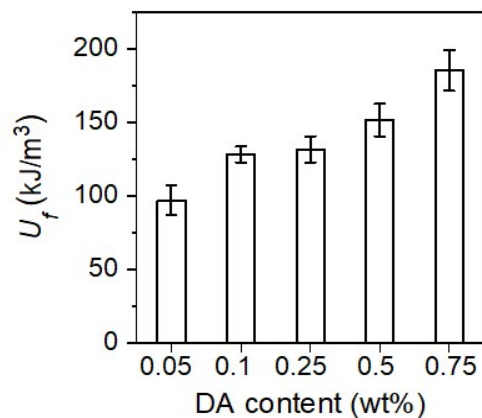


Figure S1. Compressive toughness at 80% strain of PDA-rGO/PVA hydrogels with DA contents from 0.05 wt% to 0.75 wt%.

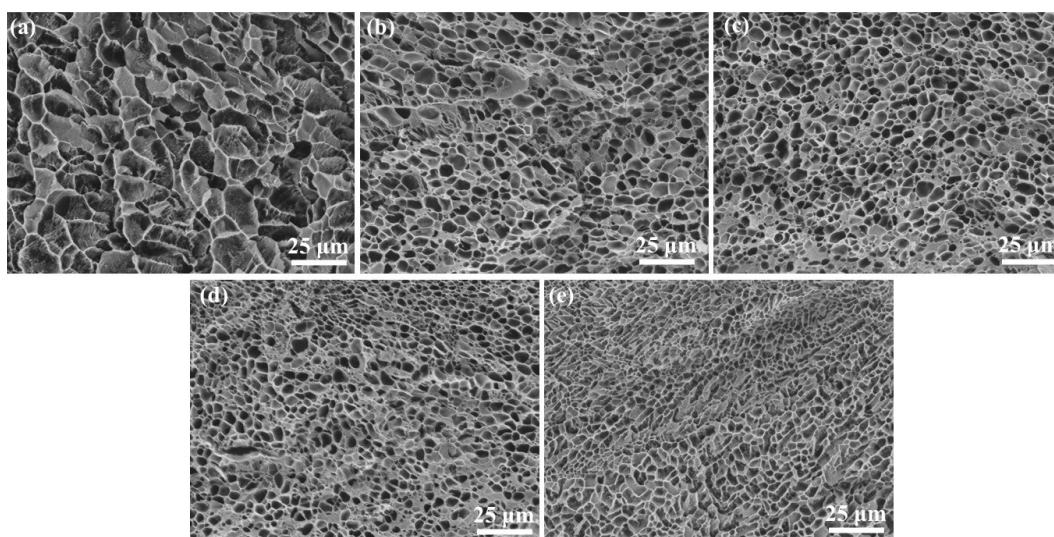


Figure S2. (a-e) SEM images of the PDA-rGO/PVA composite hydrogels with increasing the DA concentration from 0.05 % to 0.1 %, 0.25 %, 0.5 % and 0.75 %.