electronic supplementary information (ESI)

Liquid PEDOT:PSS Electrode Based Stretchable Triboelectric Nanogenerator for Portable Self-Charging Power Source

Jihong Shi, Gengfei Li, Na Sun, Hongxue Jiang, Dequan Bao, Lingjie Xie, Mingfa Peng, Yina Liu, Zhen Wen and Xuhui Sun**

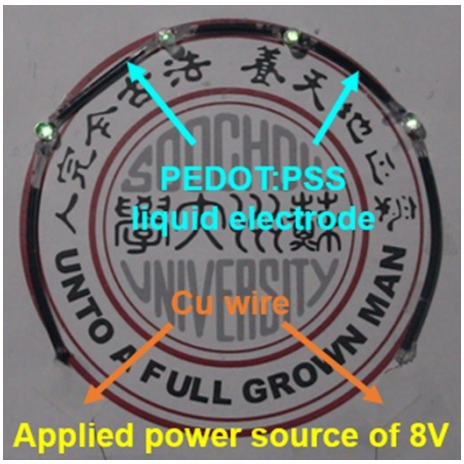

Figure S1. Photograph of lighting LEDs connecting with PEDOT:PSS liquid electrode.

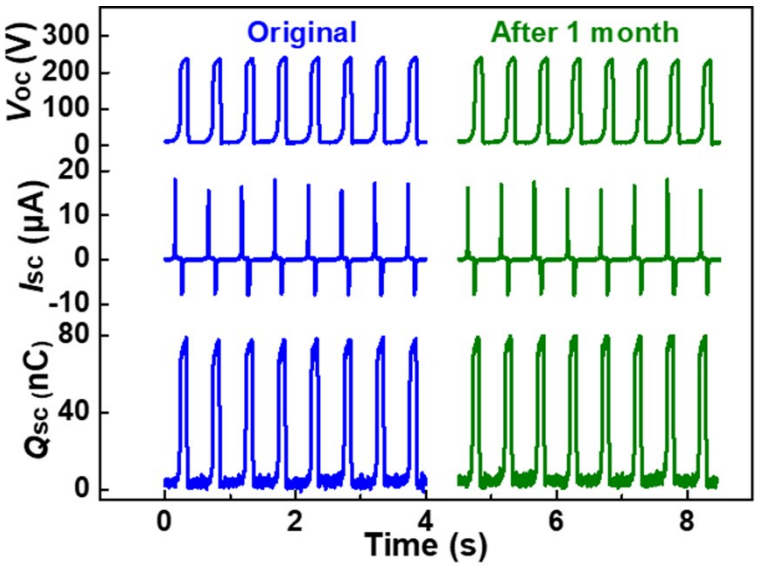

Figure S2. Dependence of V_{oc}, I_{sc} and Q_{sc} of the PL-TENG after leaving for a month.

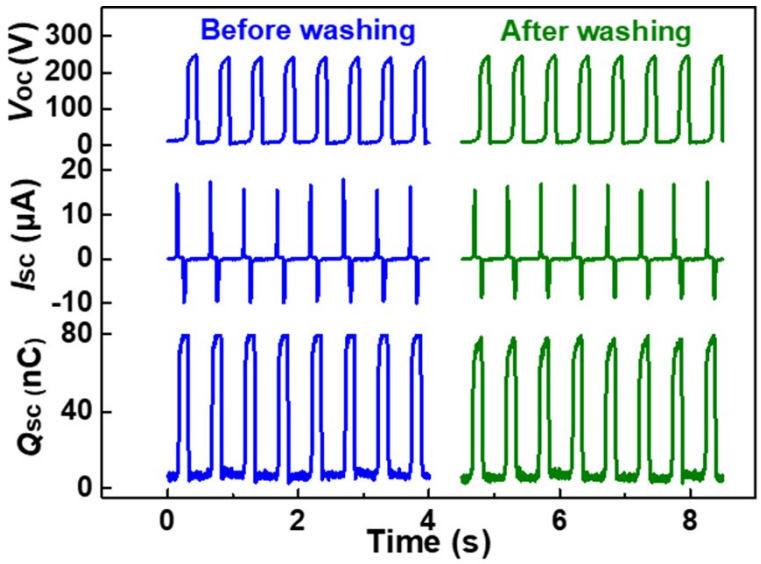

Figure S3. Dependence of V_{oc}, I_{sc} and Q_{sc} of the PL-TENG before and after washing in physiological saline.

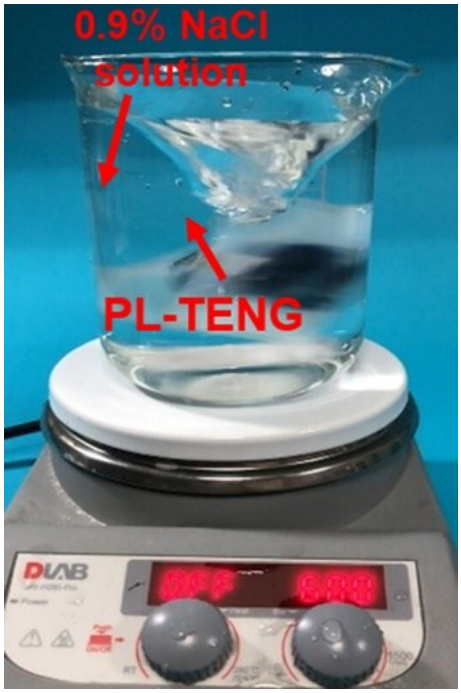

Figure S4. Washing PL-TENG in the saline (0.9% NaCl solution) using magnetic stirrer.

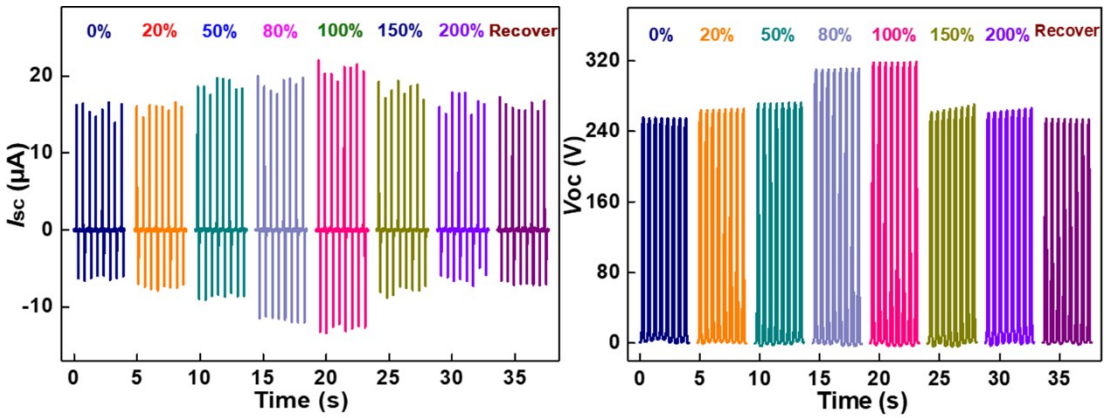

Figure S5. Electrical outputs of the PL-TENG under different elongations, including V_{oc} and I_{sc} respectively.

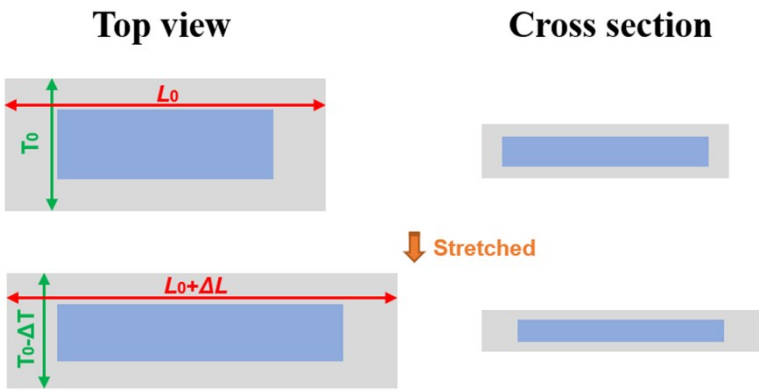

Figure S6. Schematic illustration of the deformation of the PL-TENG.

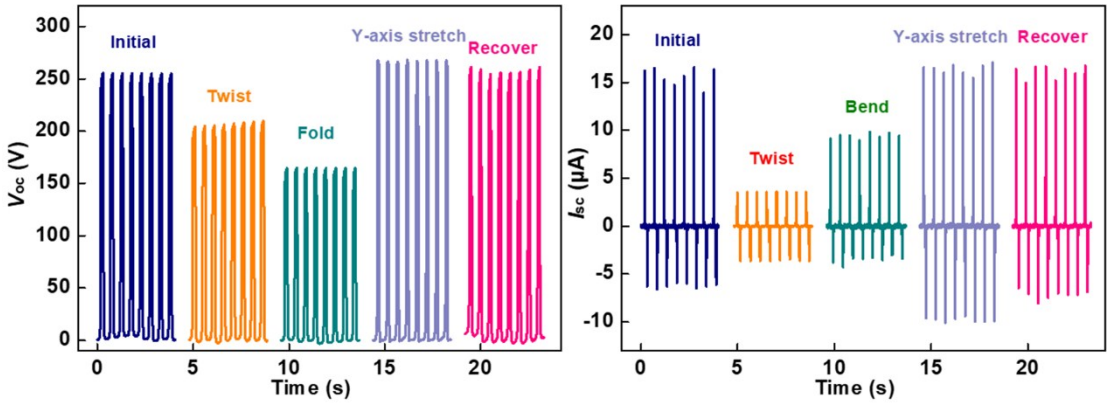

Figure S7. V_{oc} and I_{sc} of the PL-TENG under bended, twisted and stretched state, respectively.

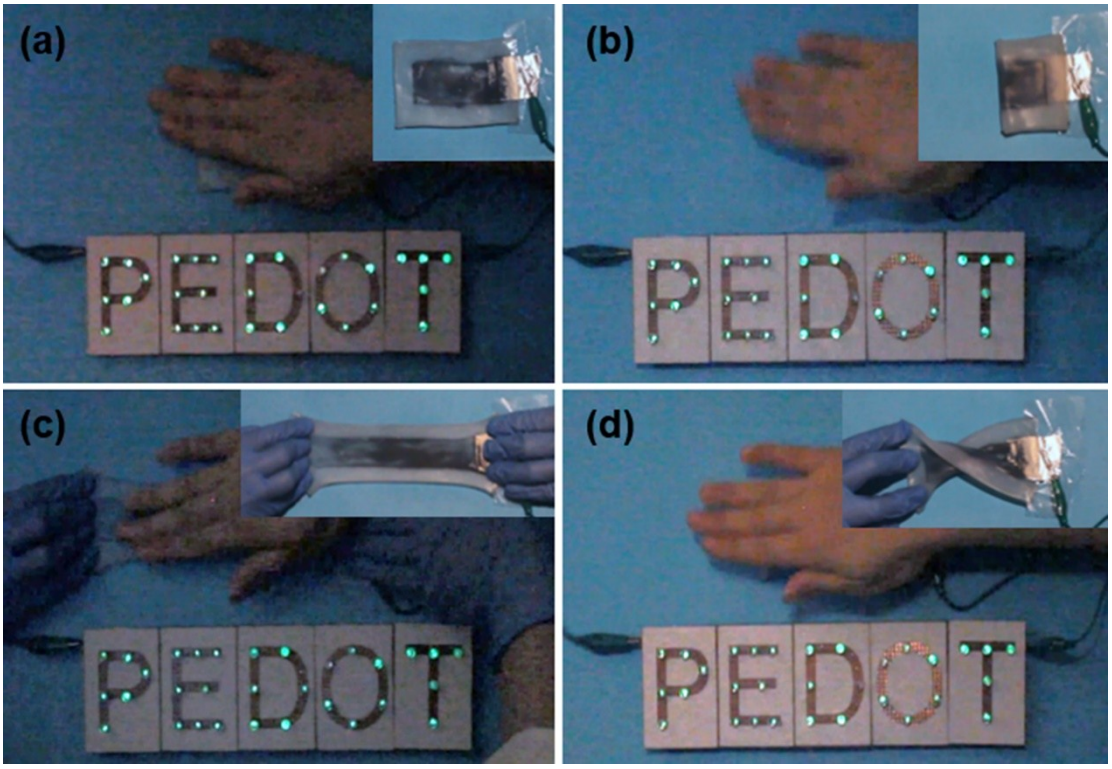

Figure S8. Driving several LEDs by harvesting mechanical energy from hand patting of the PL-TENG under different deformations including (a) original state (b) bended state. (c) stretched state and (d) twisted state.