

A Flexible and Stretchable Self-powered Nanogenerator in Basketball Passing Technology Monitoring

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Table S1. The advantages of PAAM-LiCl hydrogel compared with metal electrodes.

| | Flexible | extendibility | transparency | manufacture | durability | conformability |
|---------------------|-----------------|----------------------|---------------------|--------------------|-------------------|-----------------------|
| Hydrogel electrodes | Good | Good | Good | Easy | Good | Good |
| Metal electrodes | Bad | Bad | No | Hard | Bad | Bad |

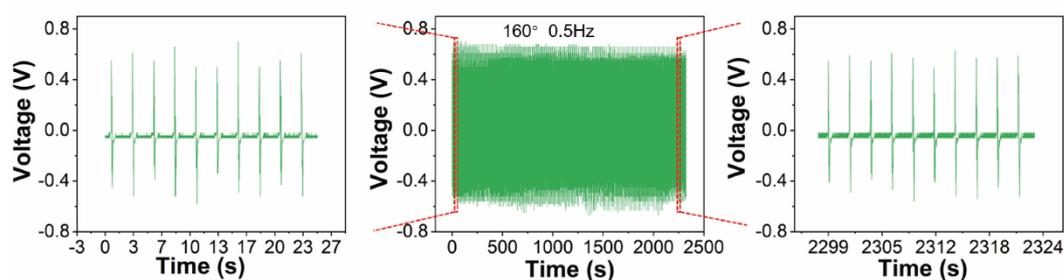


Figure S1. Durability property of TSB-PENG.

Supplementary Movie S1. The output voltage signal of PENG at bend, twist and stretch;

Supplementary Movie S2. The PENG can charge 4.7 μF capacitor and drive the calculator;

Supplementary Movie S3. The device can transmit wireless signal to control the LED.

Supplementary Movie S4. The output signal of the hook pass movement is collected;

Supplementary Movie S5. The output signal of the shoulder pass movement is collected;

Supplementary Movie S6. The output signal of the chest pass movement is collected;