Laminated pyroelectric generator with spin coated transparent poly(3,4-ethylenedioxythiophene) polystyrene sulfonate (PEDOT:PSS) electrodes for flexible self-powered stimulator

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Supporting information

Table S1. The AFM data of PEDOT thickness under different rotation speeds

| Sample     | Sample 1 | Sample 2 | Sample 3 | Sample 4 | Mean value |
|------------|----------|----------|----------|----------|------------|
| 500 r/min  | 588.817  | 590.361  | 591.580  | 589.290  | 590.012 nm |
| 1000 r/min | 458.263  | 461.390  | 460.720  | 461.087  | 460.365 nm |
| 1500 r/min | 303.580  | 301.234  | 304.380  | 301.298  | 302.623 nm |
| 2000 r/min | 235.638  | 230.520  | 229.541  | 230.109  | 231.452 nm |
| 2500 r/min | 188.246  | 185.012  | 182.538  | 181.008  | 184.201 nm |

Figure S1. (a) Bending schematic diagram. (b) The voltage of laminated device was measured before mechanical fatigue tests and after 200, 1000 bending times.
Figure S2. The electrical output of a laminated device during 1 h when irradiation on and off time is kept at 1s/2s. The 1 h of continuously working of the device demonstrates its stability and durability.