Supplementary Information

The continuous fabrication of high-performance triboelectric nanogenerator by roll-to-roll process

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Supplementary Movies

Supplementary Movies 1: Preparation process of TENG based on the Copper foil tape.

Supplementary Movies 2: Preparation process of TENG based on the conductive fibrous film.

Supplementary Movies 3: The LEDs are lit when TENG harvests mechanical energy.

Supplementary Figures



Figure S1. Schematic diagram of silica gel bonding to metal surface



Figure S2. The photos of large-scale samples with 10 cm (width) x 500 cm (length) fabricated by roll to roll method.



Figure S3. Frequency dependence of room temperature dielectric constant and loss tangent for MAPDMS films.



Figure S4. The (a) surface and (b) cross-section images of the MAPDMS film.



Figure S5. The sliding angle images of water on different MAPDMS films.



Figure S6. The output charge density of the TENG with contact-separation mode in different pressure.



Figure S7. The LEDs are lit when TENG harvests mechanical energy.



Figure S8. Schematic diagrams showing the TENG harvests mechanical energy.



Figure S9. The images of the TENG in free-standing triboelectric-layer mode.



Figure S10. The current curve of TENG in rainfall.



Figure S11. The absorption spectrum of MAPDMS-F film.