

Supporting Information

U-Shaped Tube Based Liquid–Solid Triboelectric Nanogenerator for Harvesting Unutilized Compressed Air Energy

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Supporting files

Supporting Figures: **Figure S1-S4**

Supporting Video: **Video S1-S2**

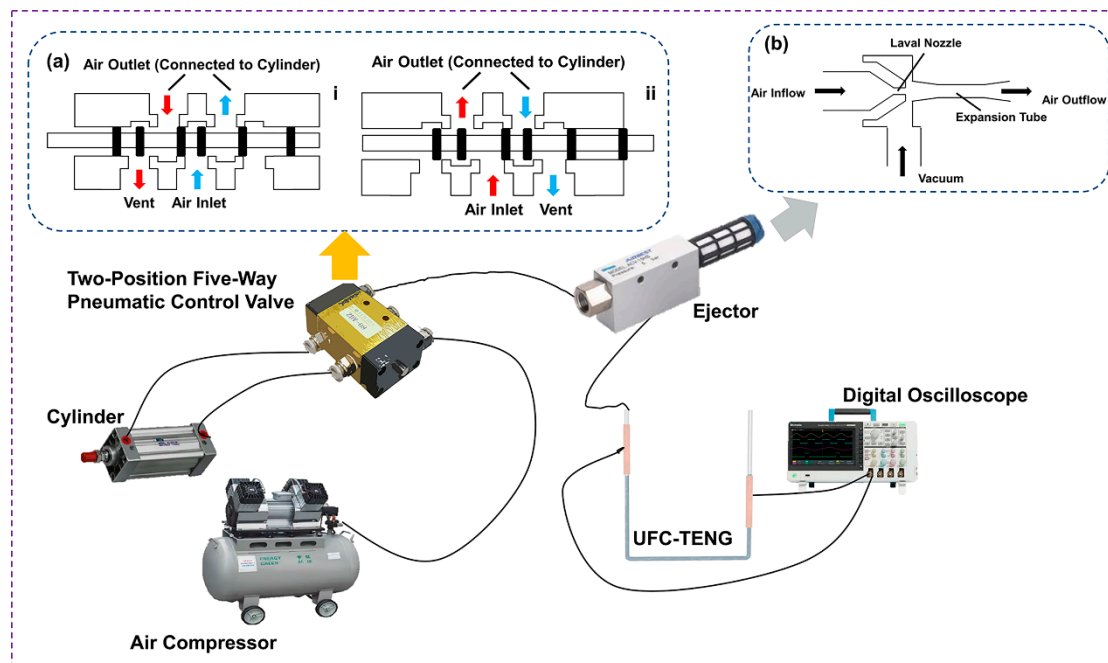


Figure S1 Schematic diagram of the UFC-TENG testing system. (a) Schematic diagram of the two-position five-way pneumatic control valve. (b) Schematic diagram of the ejector.

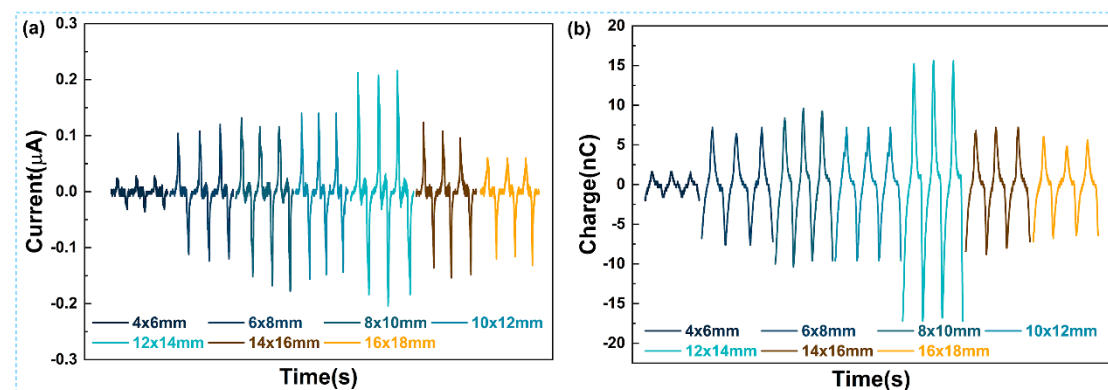


Figure S2 Current (a) and charges (b) of the UFC-TENG with different inner and outer diameters.

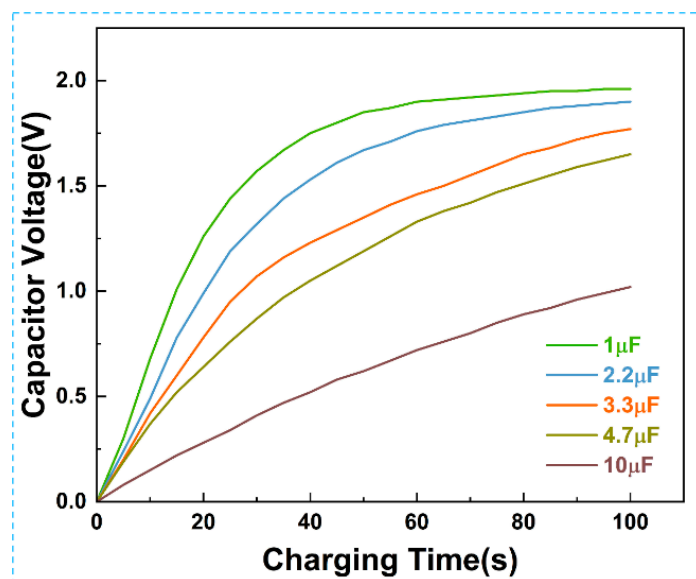


Figure S3 Charging curves of different capacitors.

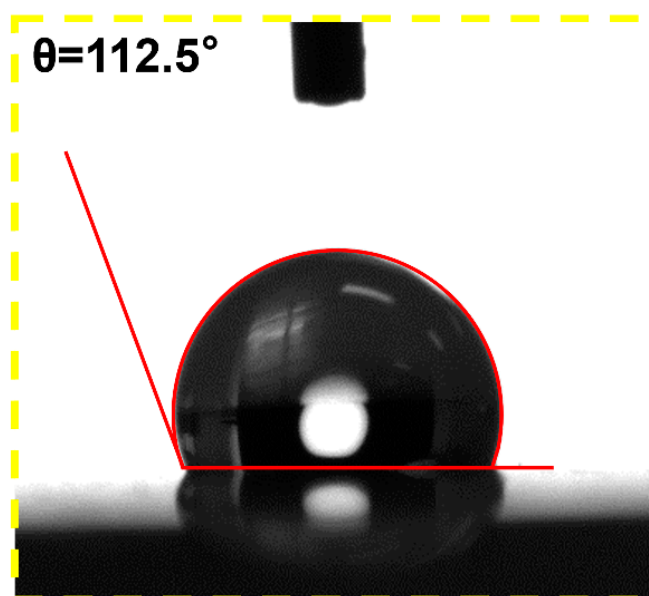


Figure S4 Contact angle between FEP and water.

Supporting Video

Video S1 Demonstrate that the UFC-TENG is used as a DC power supply to light up LEDs after full wave rectifier circuit.

Video S2 Demonstrate that the UFC-TENG is used as a signal collector, which is amplified by triodes and converted into electrical signals.