

Supplementary Materials: Yo-Yo Inspired Triboelectric Nano-generator

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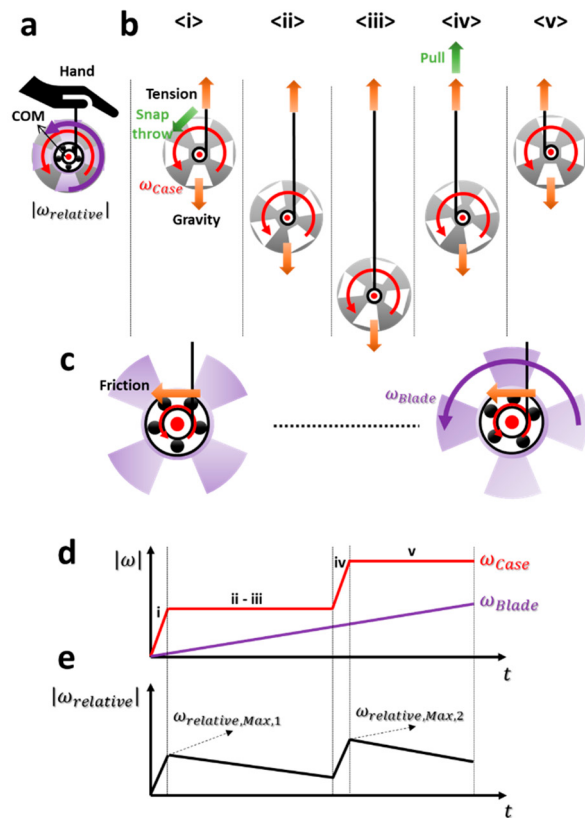


Figure S1. Mechanical analysis (a) Simplified scheme of the Y-TENG rotating on the center of mass (COM) with relative rotational velocity ($\omega_{relative}$). (b) Mechanical behavior from the perspective of the rotating case and (c) the blade. (d) Rotational velocity versus time plot of the case (ω_{Case}) and the blade (ω_{Blade}) (e) $\omega_{relative}$ versus time plot.

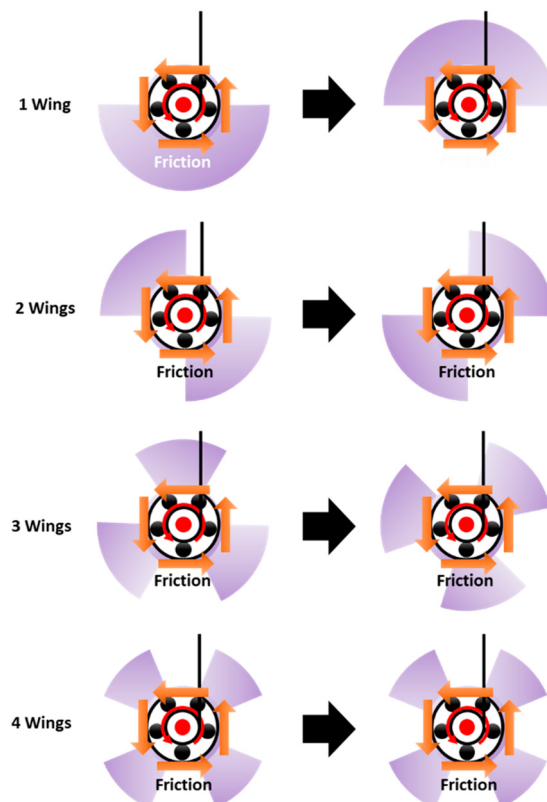


Figure S2. Mechanical behavior of the blade depending on number of wings.

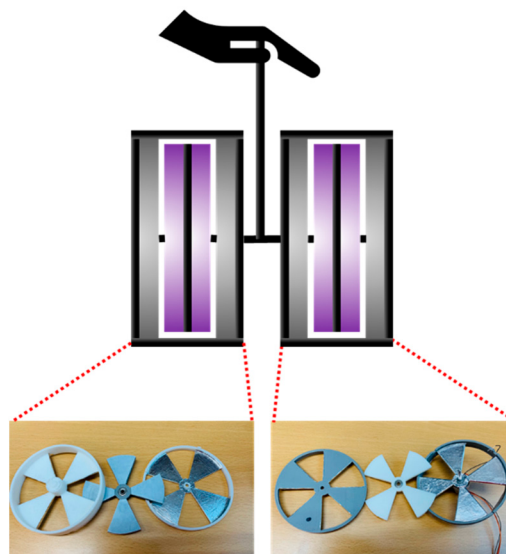


Figure S3. Photographs of the fabricated Y-TENG.

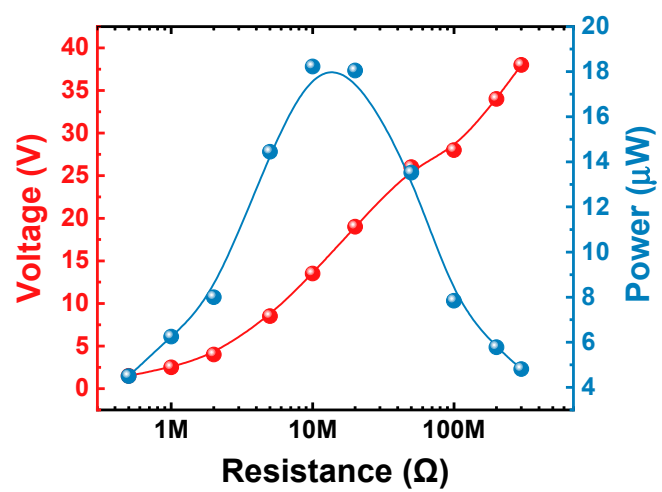


Figure S4. Voltage and power output according to external load resistances.