

Electronic Supplementary Information

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Triboelectric Nanogenerator Based on Surface-Patterned PI/UIO-66-NH₂ Mixed Matrix Membranes

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Supplementary Figures

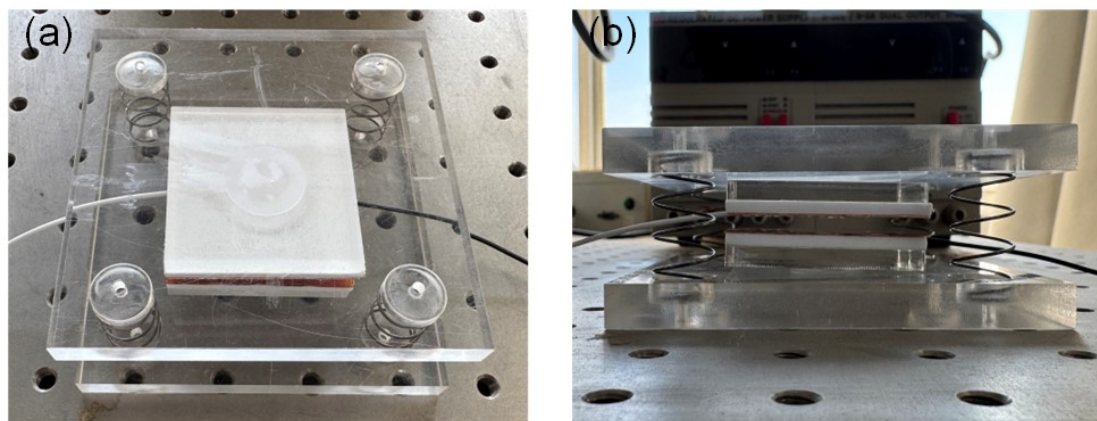


Figure S1. (a) Top-view and (b) side-view pictures of the fabricated TENG.

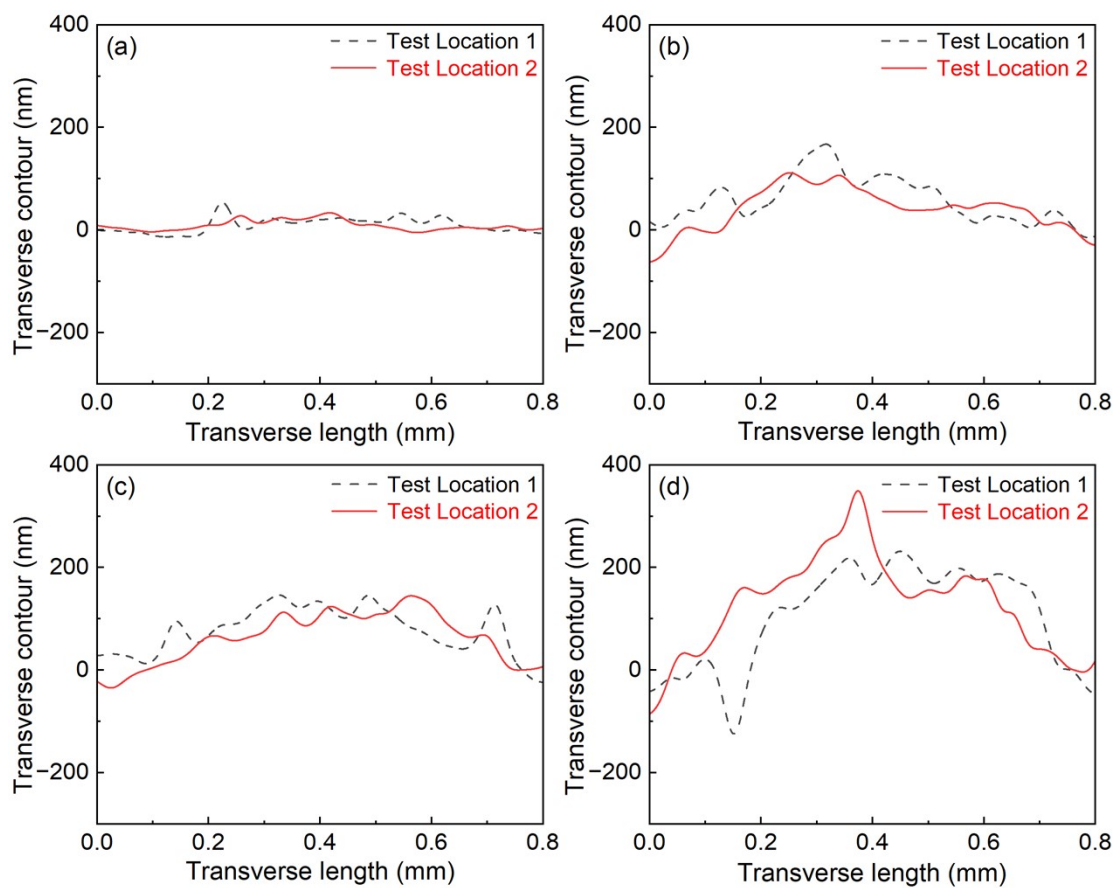


Figure S2. Lateral profiles of (a) PI, (b) MMM-1, (c) MMM-3, (d) MMM-5.

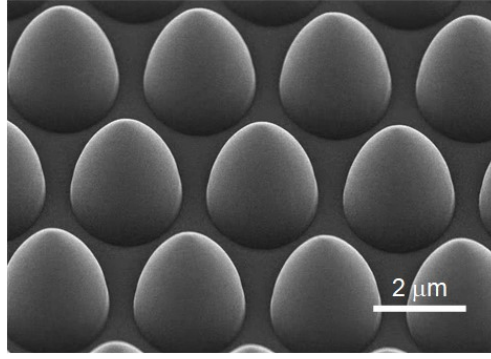


Figure S3. Surface SEM image of sapphire substrate.

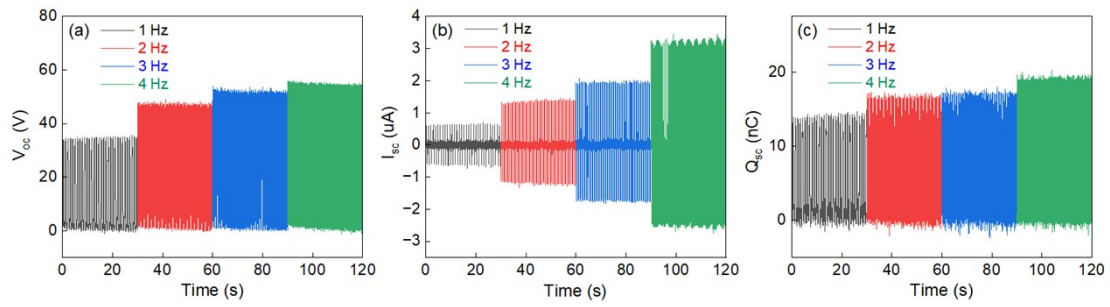


Figure S4. (a) Open-circuit voltage (V_{oc}), (b) short-circuit current (I_{sc}), and (c) short-circuit transferred charge (Q_{sc}) of surface patterned TENG-5 across 1~4 Hz operation frequencies.

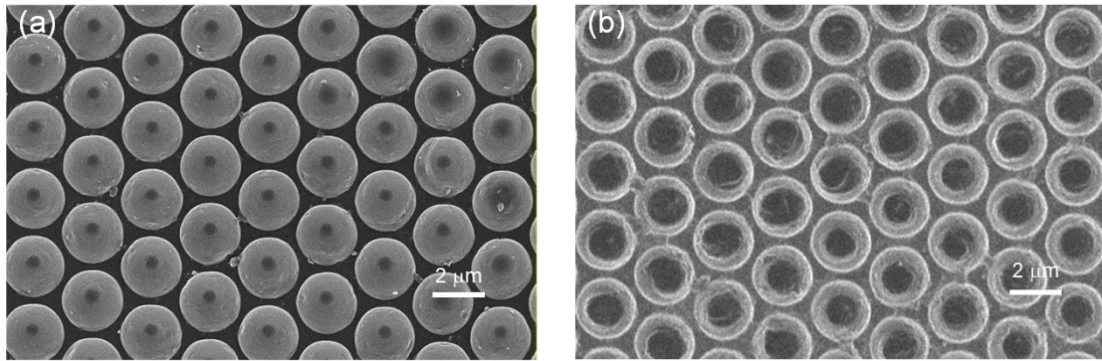


Figure S5. Surface SEM images of patterned MMM-5 (a) before and (b) after 20,000 continuous operation cycles at 2 Hz.