

Supporting Information for

## Human Machine Interface with Wearable Electronics Using Biodegradable Triboelectric Films for Calligraphy Practice and Correction

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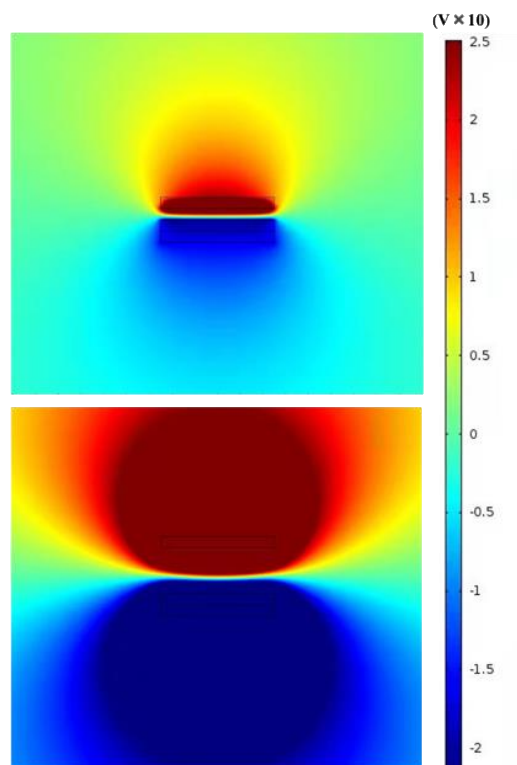
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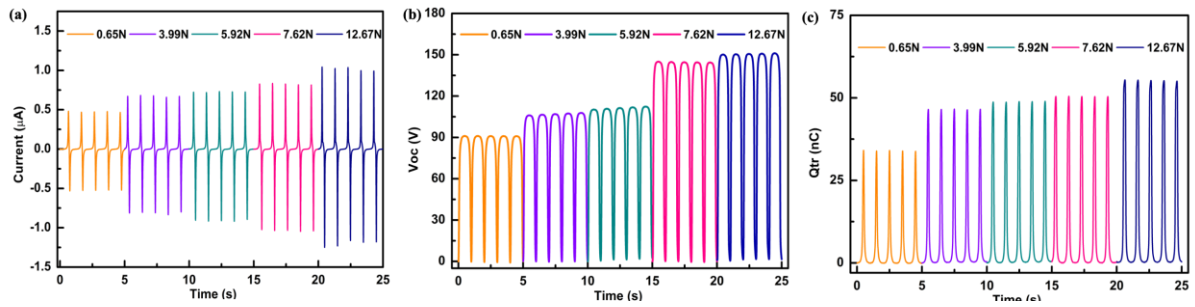
# Shen Shen and Jia Yi contributed equally to this work.

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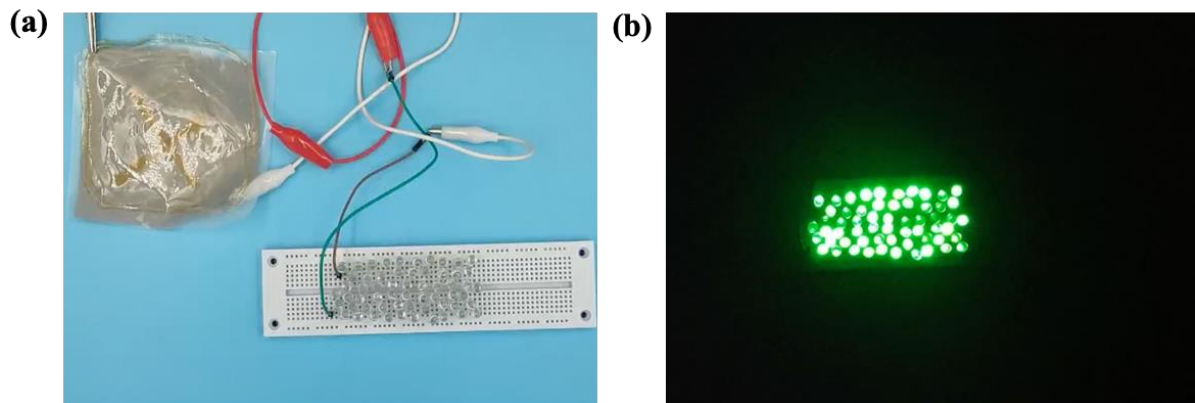
### Supplementary Figures



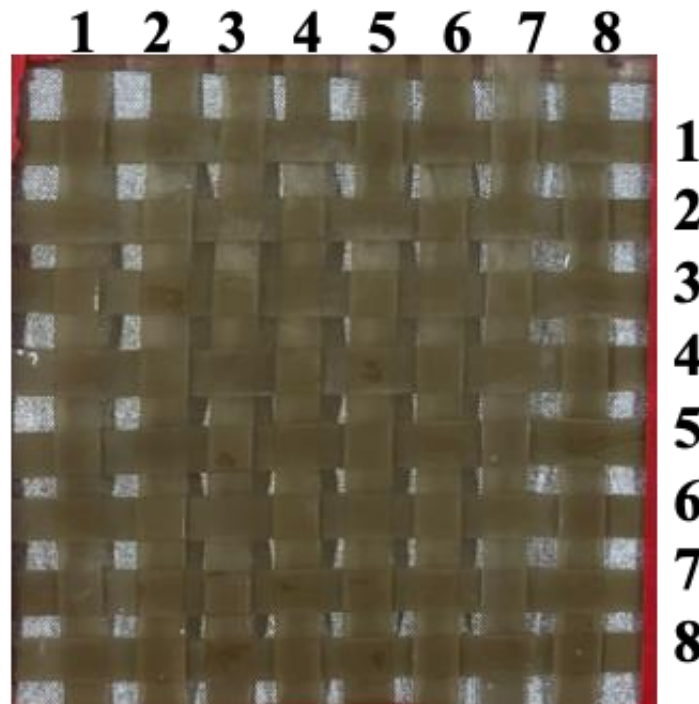
**Fig. S1** Numerical calculations of the potential distribution of the CSF-TENG at the different states using COMSOL software



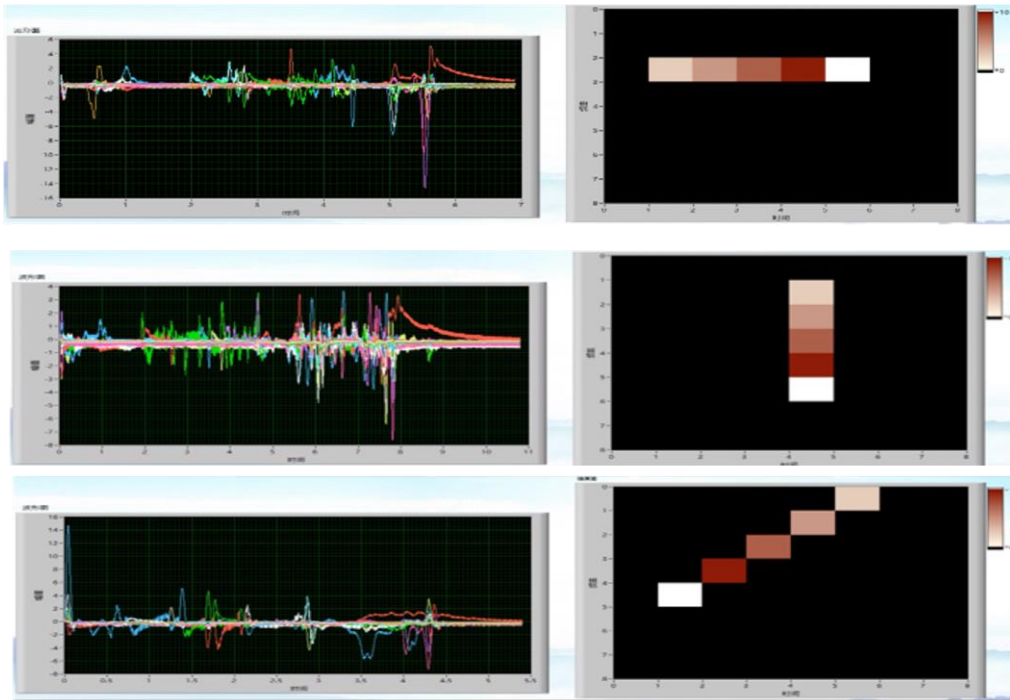
**Fig. S2** (a)  $I_{sc}$ , (b)  $V_{oc}$ , and (c)  $Q_{sc}$  of CSF-TENG under varied pressures (0.65–12.67 N) at the frequency of 1 Hz



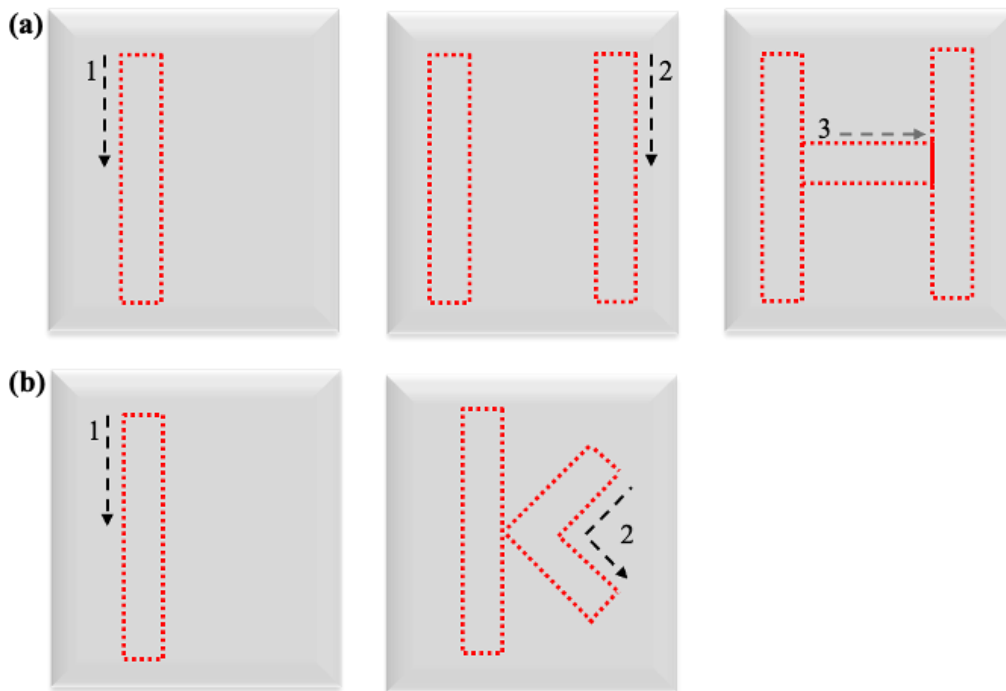
**Fig. S3** Images of 100 LEDs lit up using the CSF-TENG, including the overall photo (a) and the 100 lighted LEDs (b)



**Fig. S4** Photograph of writing pad



**Fig. S5** Schematic illustration of steps “-”, “|”, and “/” recognition and identification process captured by CSF-TENG-based HMI



**Fig. S6** Standard of writing steps letters. H (a) and K (b)