

Supplementary materials

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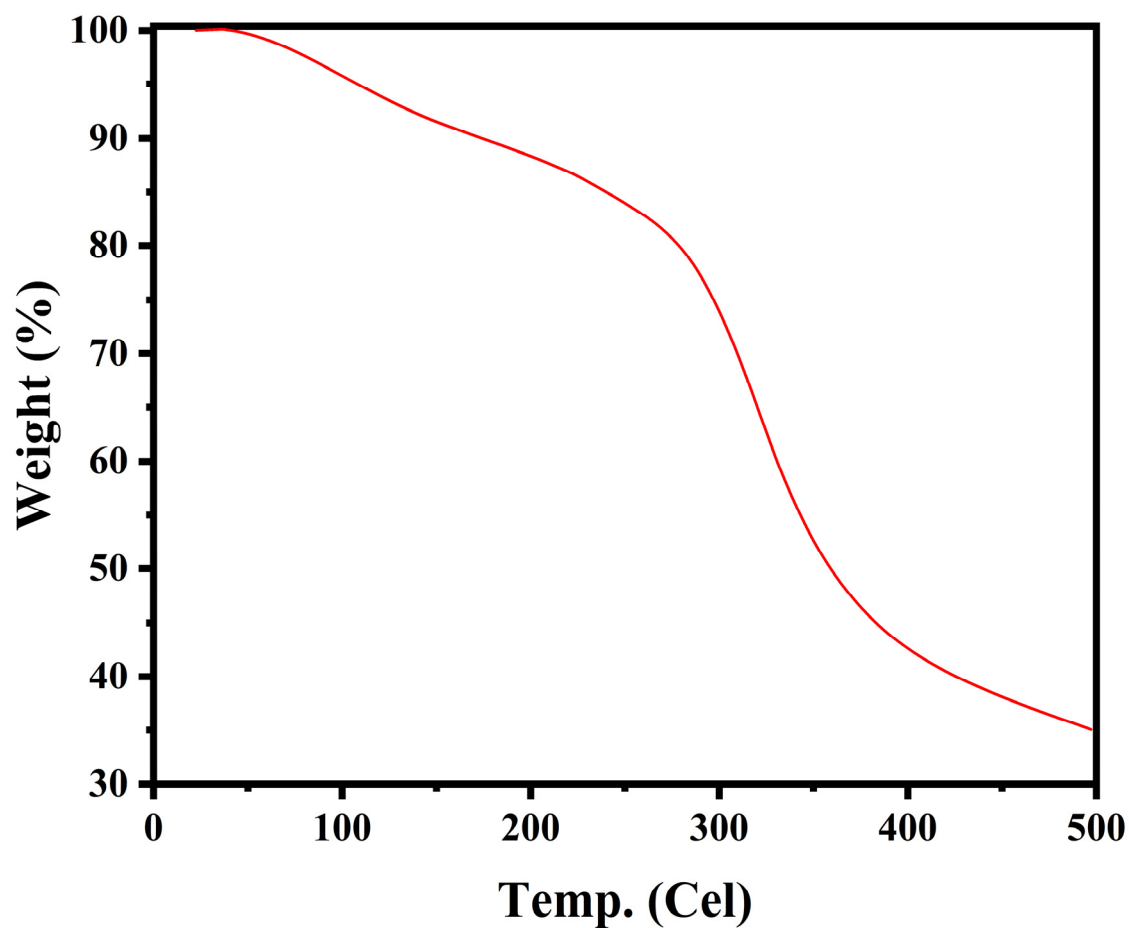


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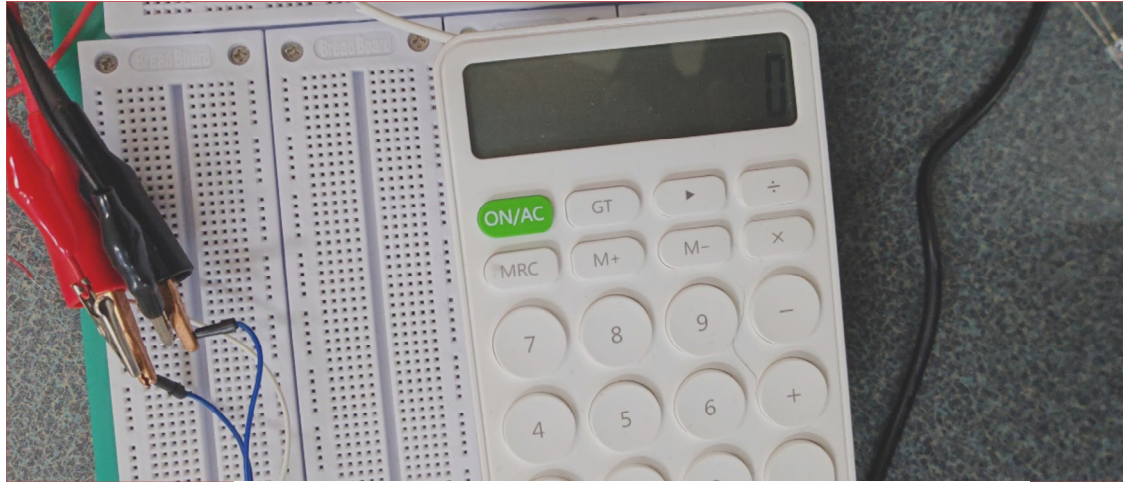


Figure S2. Electronic calculator powered by the TENG through the capacitor.

Table S1. Comparison of the output properties of fish scales with other triboelectric materials.

Material	Voltage (V)	reference
fish scale	7.4	This work
carbon nanotube	25	[49]
ZnO nanosheet	4	[50]
3D knitted spacer fabric	3	[51]