

## Supporting Information

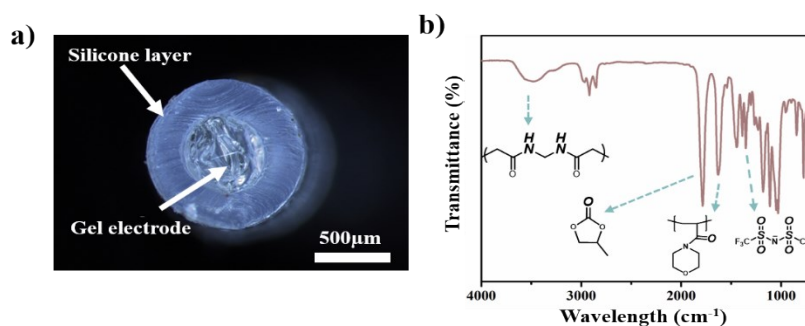


Figure S1. a) Cross-section imaging of GS-fiber by optical microscope. The scale bar was 500 μm. b) FTIR of organogel electrode and corresponding characteristic band.

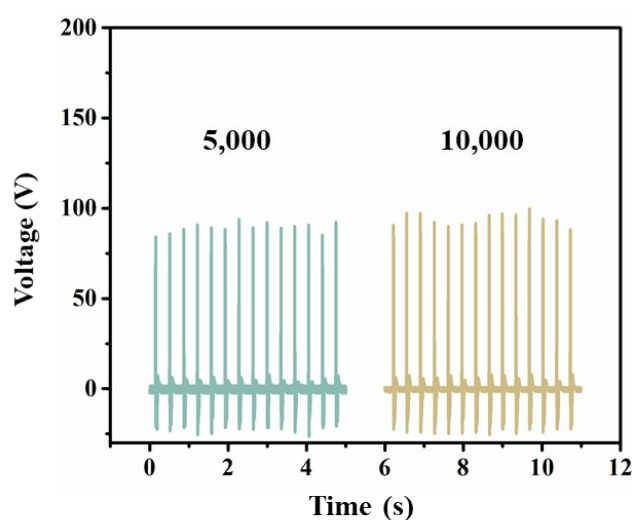


Figure S2. Output voltages of Parallel-teng after different contact-separation cycles.

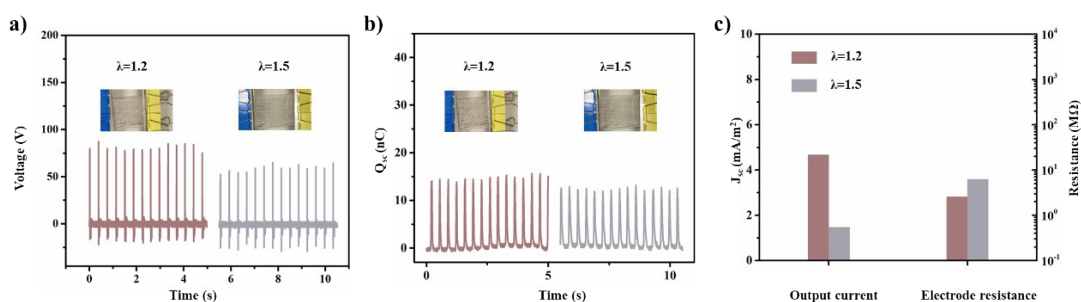


Figure S3. The a) output voltages, b)  $Q_{sc}$  and c)  $J_{sc}$ , electrode resistances of Parallel-teng at stretching states.  $\lambda$  was the ratio of the fabric length at stretching states vs original state in warp fibers direction.



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<b>Parallel-teng</b>	92 V	24.8 nC	<b>1.2</b>	<b>5.84</b>	<b>10</b>	<b>187</b>	634	231	44
<b>GS-teng</b>	40 V	9.8 nC	<b>324</b>	<b>0.49</b>	<b>300</b>	<b>42</b>	213	32	<b>Non</b>

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