

## Electronic Supplementary Information

### Novel Piezoelectric Properties of Electrospun Polyamide-imide Nanofiber Membranes

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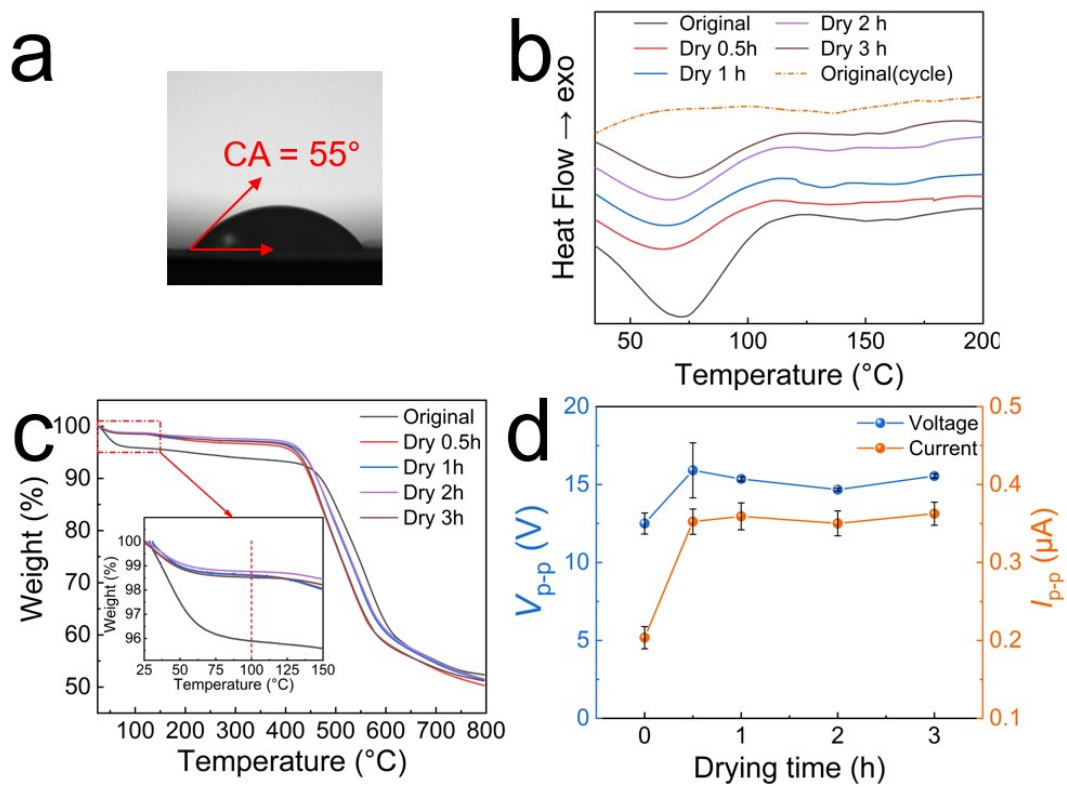


Figure S1. (a) Water contact angle of PAI nanofibers. (b) DSC curves and (c) TGA curves of PAI nanofibers after drying at different times. (d) Effect of drying time on the output voltage and current of PAI nanofibers.

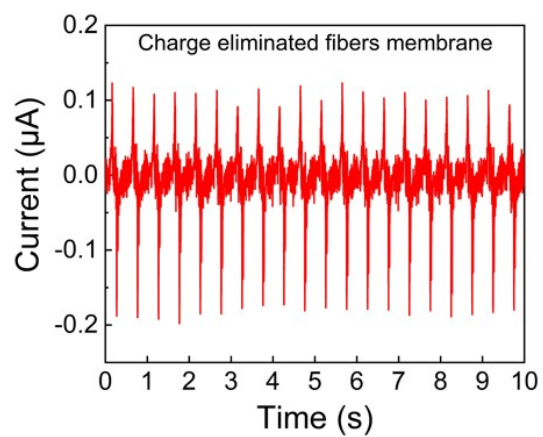


Figure S2. Current outputs of piezoelectric device made of the charge-eliminated PAI nanofibers.

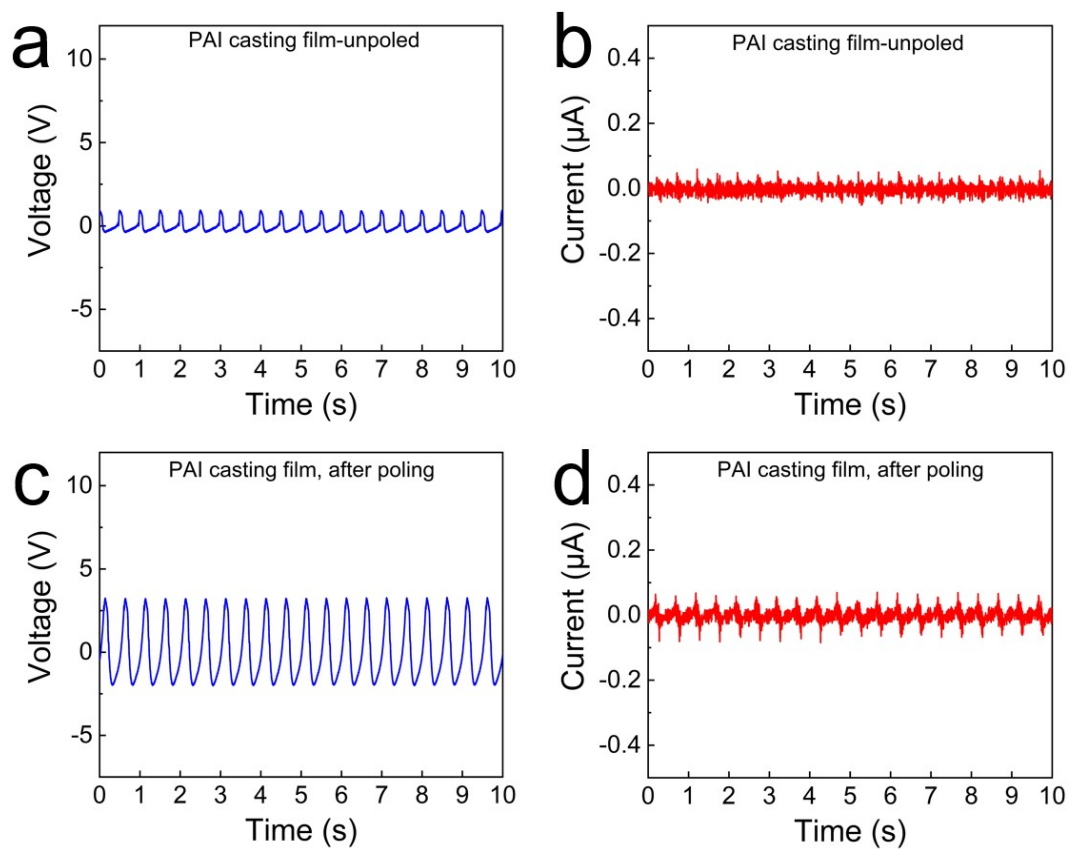


Figure S3. Electrical outputs of PAI casting film (a) (b) before and (c) (d) after electric poling treatment. (Compressive impact: 8 N, 2 Hz; working area: 4 cm<sup>2</sup>)

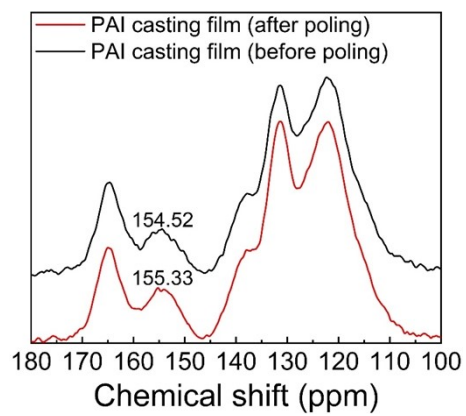


Figure S4. Solid-state  $^{13}\text{C}$  NMR spectra of PAI casting film before and after poling.

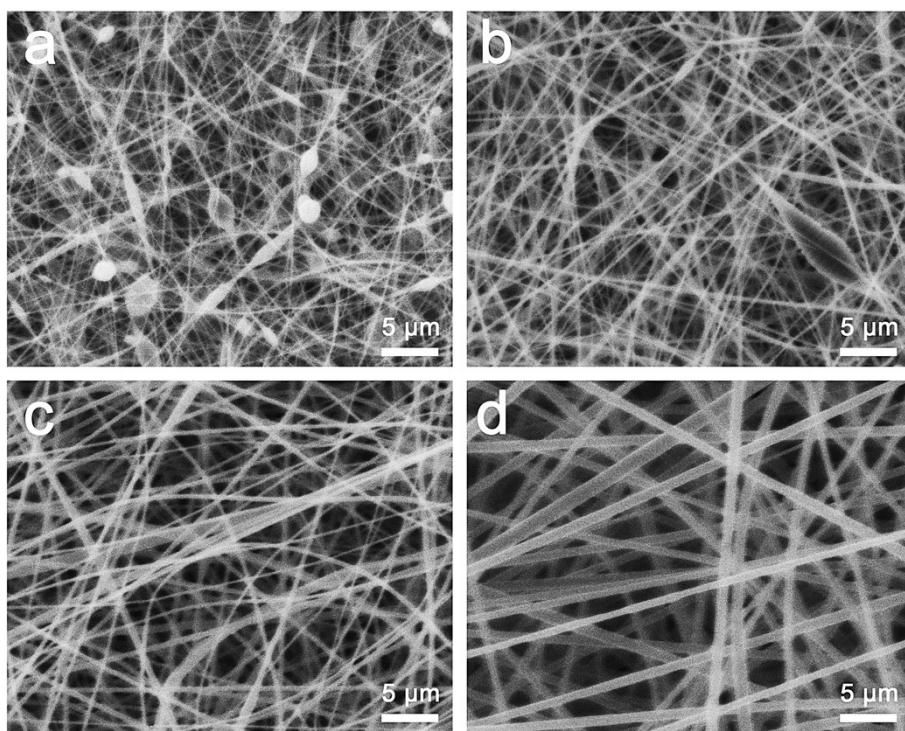


Figure S5. SEM images of PAI nanofibers electrospun from (a) 25 wt%, (b) 28 wt%, (c) 32 wt% and (d) 35 wt% PAI solutions.