

# Supplementary Materials

## **Solvent-Dependent Triboelectric Output Performance of Poly(Vinylidene Fluoride–Trifluoroethylene–Chlorofluoroethylene) Terpolymer**

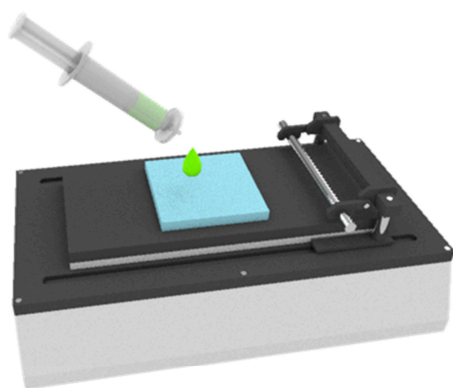
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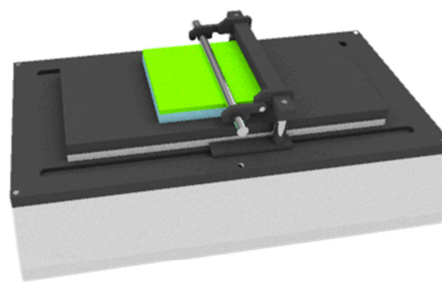
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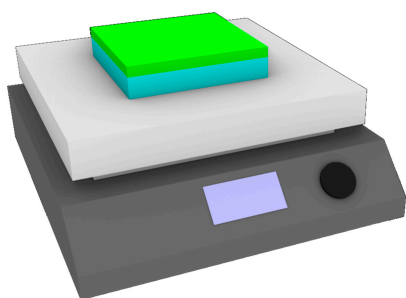
Tel.: +82-32-860-7659 (J.H.J.)



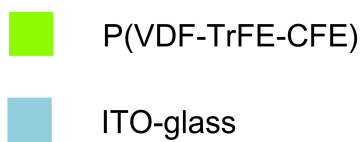
(i) Pouring



(ii) Bar-coating

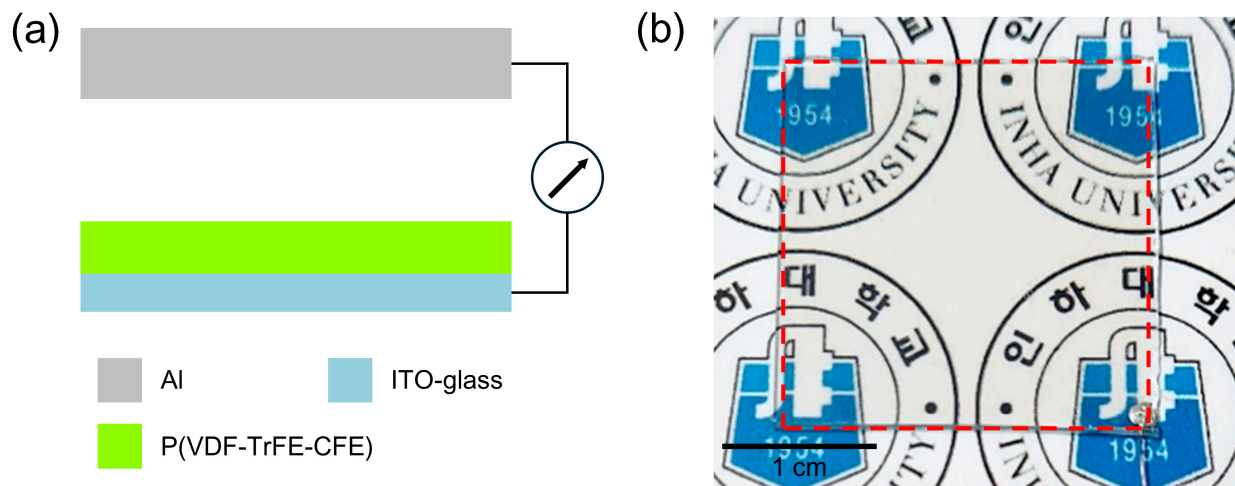


(iii) Drying

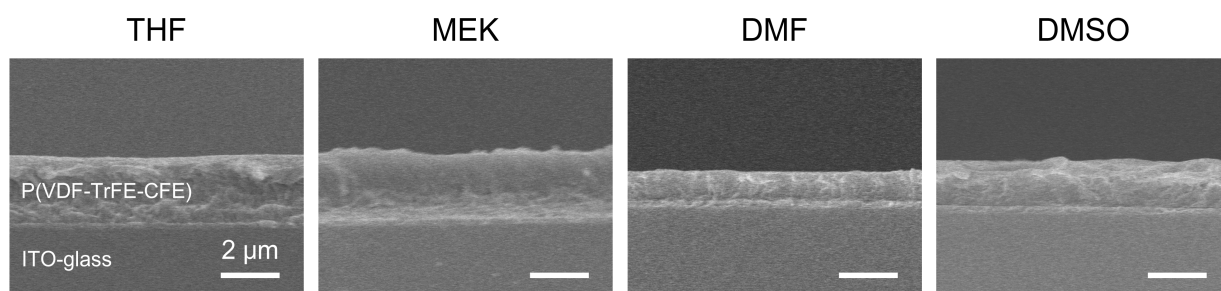


(iv) Crystallization

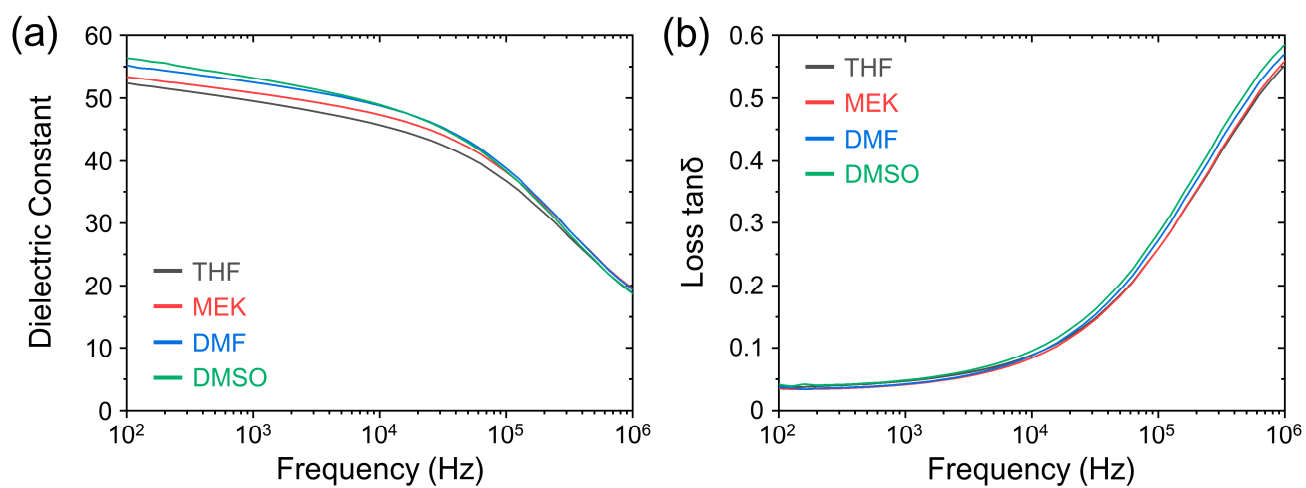
**Figure S1.** Schematic fabrication process of P(VDF-TrFE-CFE) films on an ITO-glass substrate: (i) pouring; (ii) bar-coating; (iii) drying; (iv) crystallization.



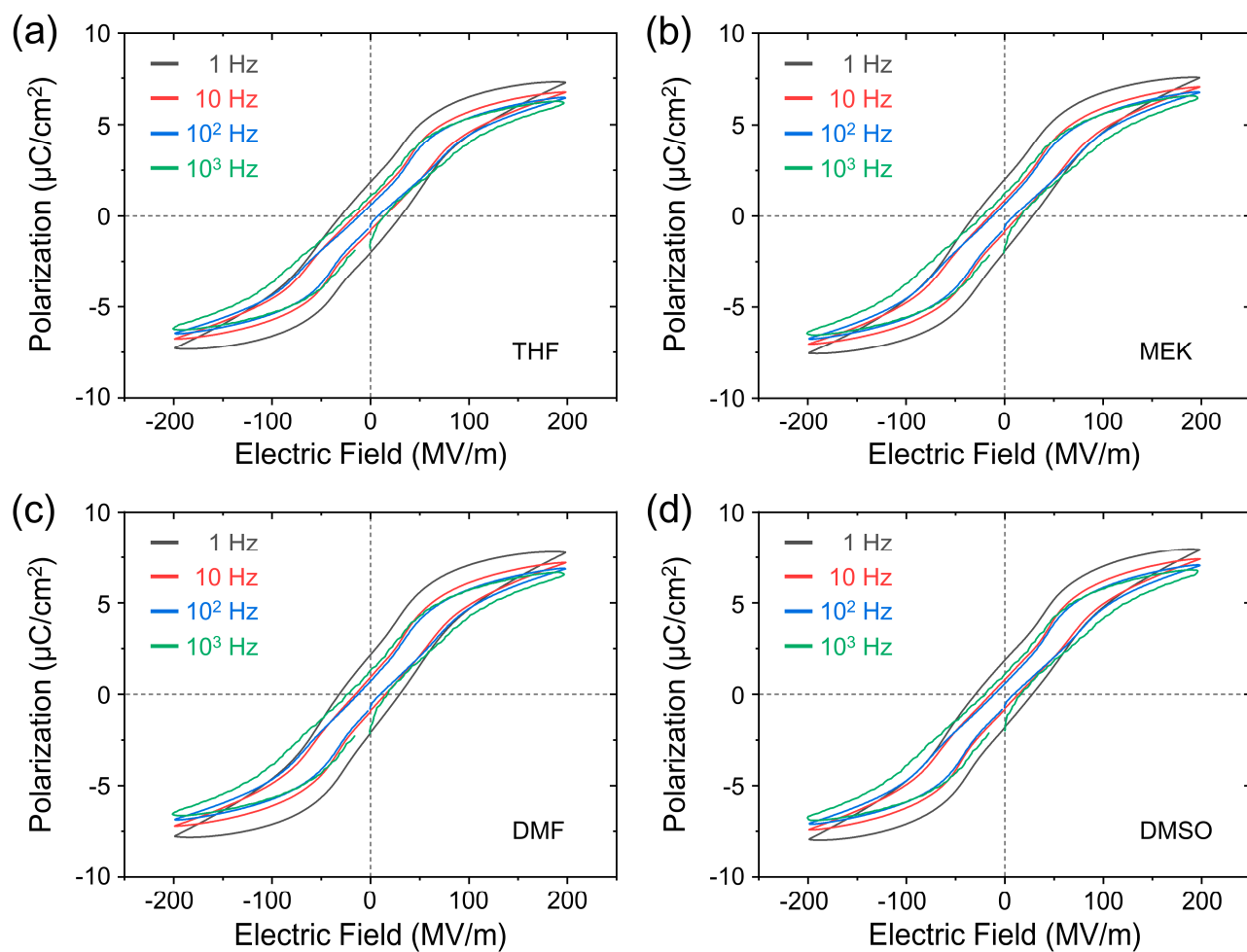
**Figure S2.** (a) Schematic diagram and (b) digital image of a P(VDF-TrFE-CFE)-based triboelectric nanogenerator. Contact and separation occurred between the Al electrode and the P(VDF-TrFE-CFE) polymer. The top (Al) and bottom (ITO) electrodes are connected to an electrometer for triboelectric output measurement.



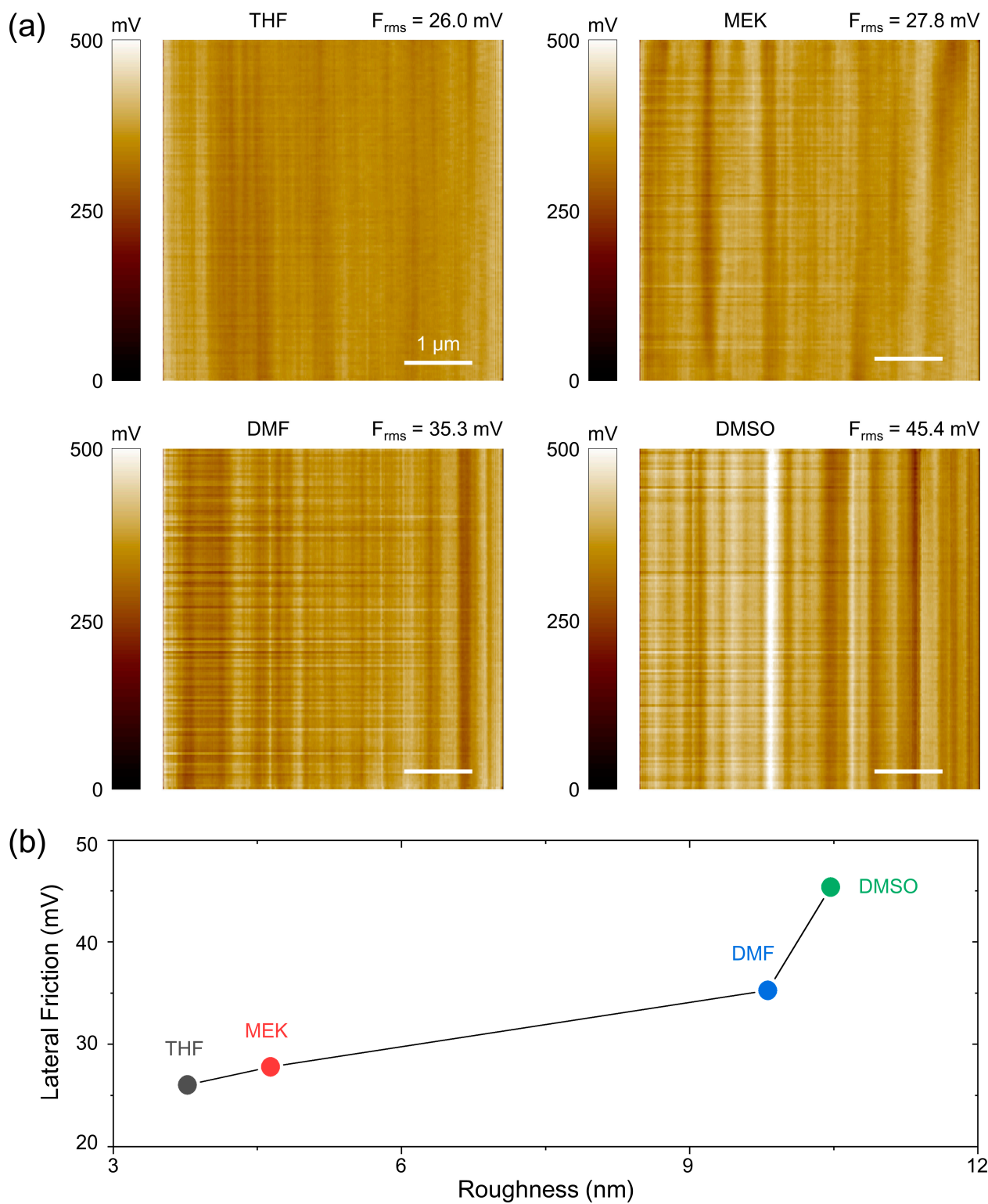
**Figure S3.** Side view of spin-coated P(VDF-TrFE-CFE) films. In contrast to bar-coating, spin-coating results in different thicknesses of films obtained from THF ( $\sim 2.2 \mu\text{m}$ ), MEK ( $\sim 2.2 \mu\text{m}$ ), DMF ( $\sim 1.1 \mu\text{m}$ ) and DMSO ( $\sim 1.5 \mu\text{m}$ ).



**Figure S4.** Frequency-dependent **(a)** dielectric constant and **(b)** loss  $\tan\delta$  of P(VDF-TrFE-CFE) films at room temperature.



**Figure S5.** Frequency-dependent polarization–electric field (P-E) hysteresis loops of P(VDF-TrFE-CFE) obtained from (a) THF, (b) MEK, (c) DMF and (d) DMSO solvents.



**Figure S6.** (a) Lateral friction microscopy images of P(VDF-TrFE-CFE) obtained from THF, MEK, DMF and DMSO solvents. The root-mean-square values of friction ( $F_{\text{rms}}$ ) are shown in each image. (b) Positive correlation between lateral friction and roughness.