

Supporting Information for

High Output Performance and Ultra-Durable DC Output for Triboelectric Nanogenerator Inspired by Primary Cell

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Supplementary Figures

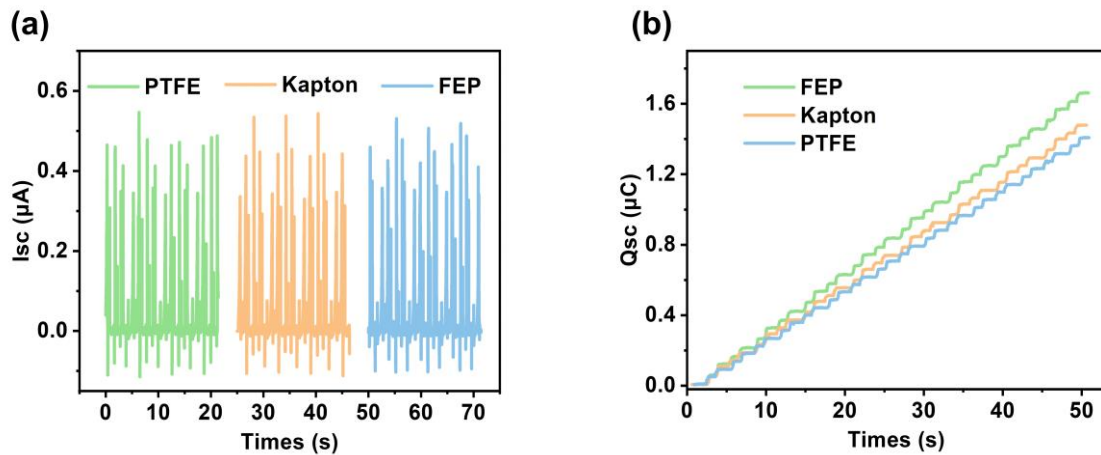


Fig. S1 The short-circuit current (a) and transferred charge (b) of the FS-PC-TENG with different electronegative materials

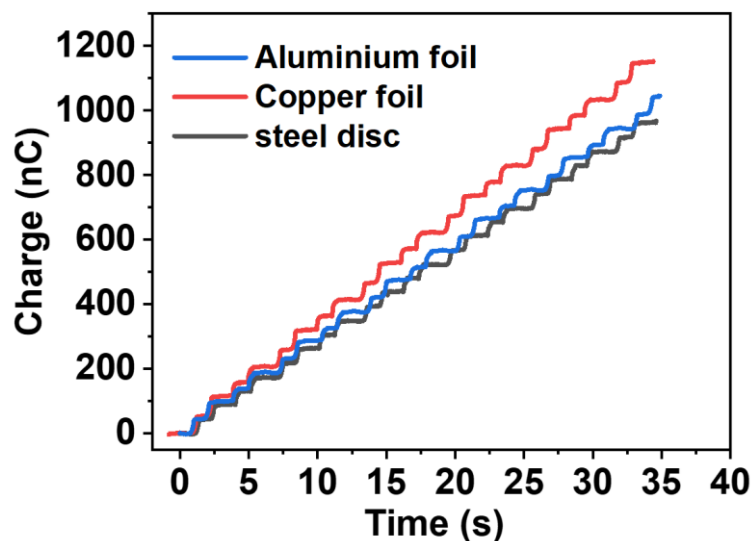


Fig. S2 The transferred charge of the FS-PC-TENG with different slider materials

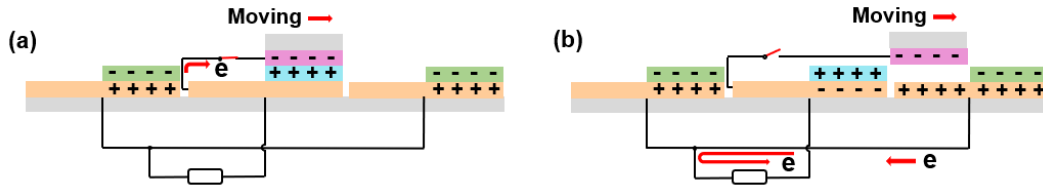


Fig. S3 The detailed working principle of the FS-PC-TENG. (a) The working principle of the FS-PC-TENG in stage iii. (b) The working principle of the FS-PC-TENG in stage iv

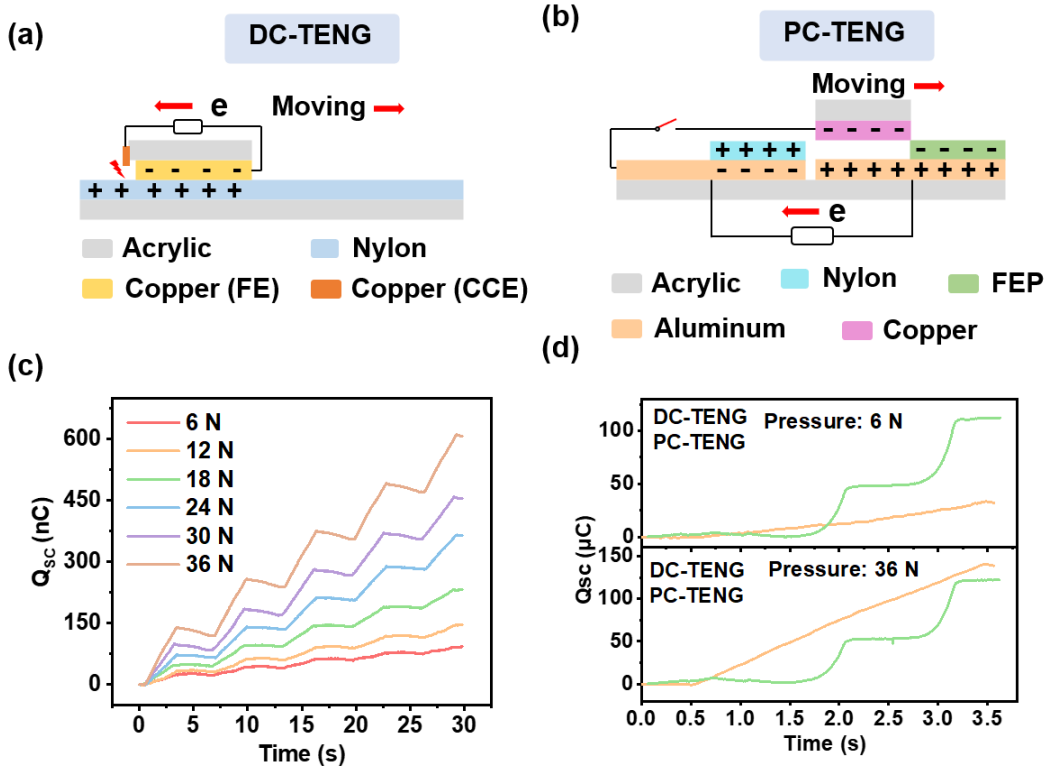


Fig. S4 The comparison of the output charge of PC-TENG with that of DC-TENG at different pressure forces. (a) Schematic diagram of DC-TENG based on air breakdown. (b) Schematic diagram of the PC-TENG based on contact electrification and electrostatic induction (c) the output charge of normal DC-TENG at different pressure forces. (d) The comparisons of the output charge of PC-TENG with that of normal DC-TENG at pressure forces of 6 N and 36 N, respectively

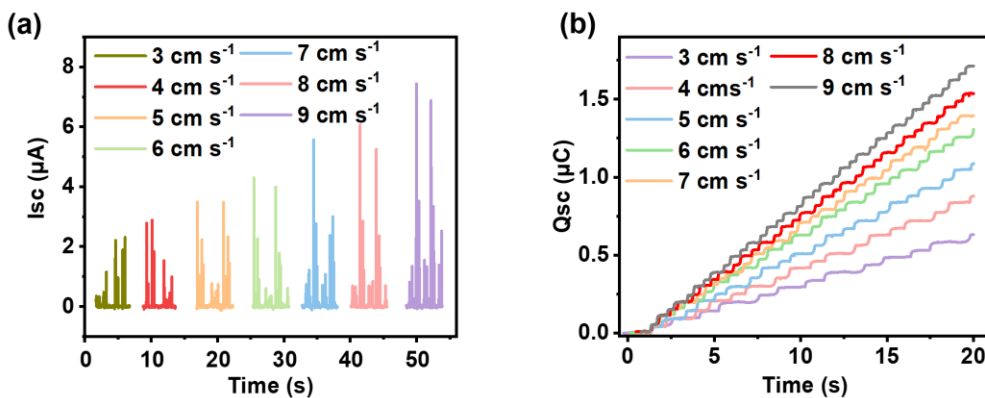


Fig. S5 The short-circuit current (a) and transferred charge (b) of the FS-PC-TENG with different sliding speeds