# Energy augmentation of triboelectric nanogenerators using PDMS-MWCNT Composites and their applications in IoT and HMI sensing

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Supplemental Material

**Table S1:** Compression metal (Cu and Al) and 0.050 wt. % MWCNT DOPED PDMS.

| Metal | Voltage (V) | Current (µA) |
|---|---|---|
| Copper | 110 | 11 |
| Aluminum | 114 | 11 |

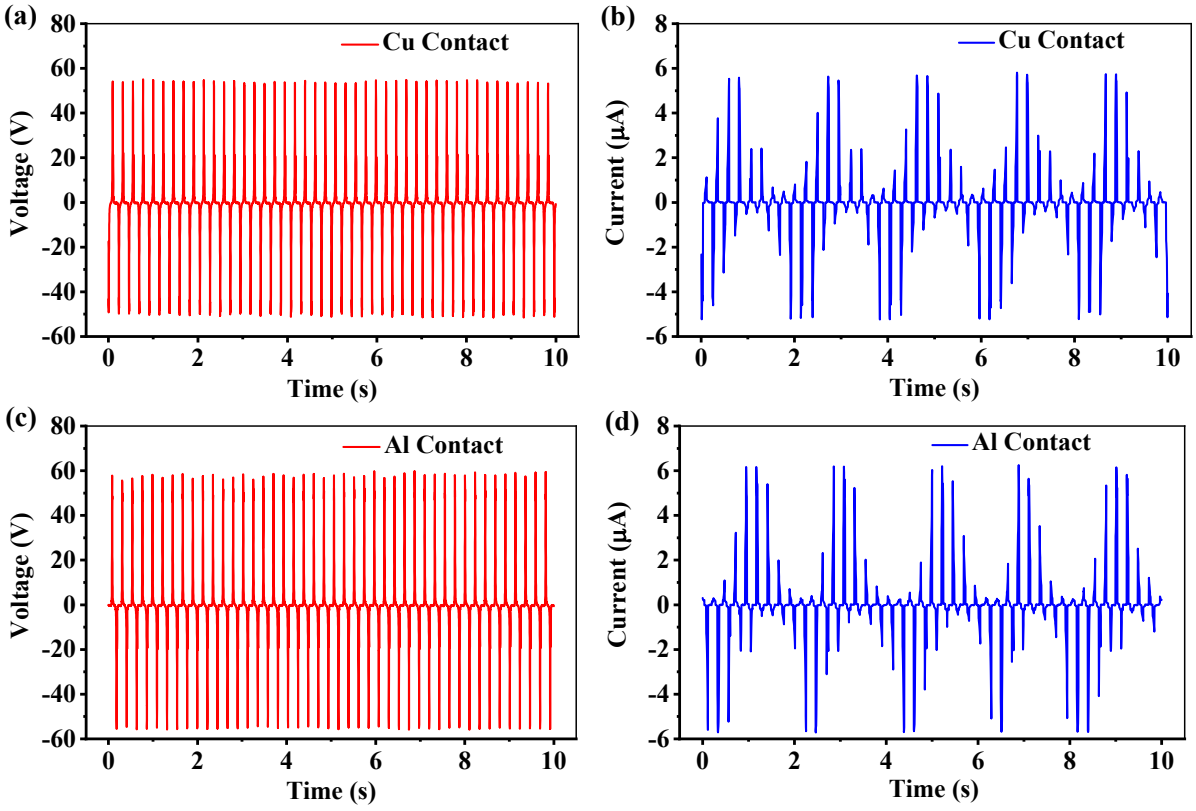


**Figure S1:** Voc and Isc of Metal (Cu & Al) and Composite (0.050 wt. % MWCNT doped PDMS).

Table S2: Voc and Isc at different frequencies.

| S. No | Frequency (Hz) | Voltage (V) | Current (μA) |
|---|---|---|---|
| 1 | 1.8 | 55 | 5.5 |
| 2 | 2.6 | 78 | 7.0 |
| 3 | 3.2 | 84 | 8.0 |
| 4 | 3.6 | 98 | 9.1 |
| 5 | 4.0 | 102 | 10.5 |
| 6 | 4.4 | 110 | 11.0 |

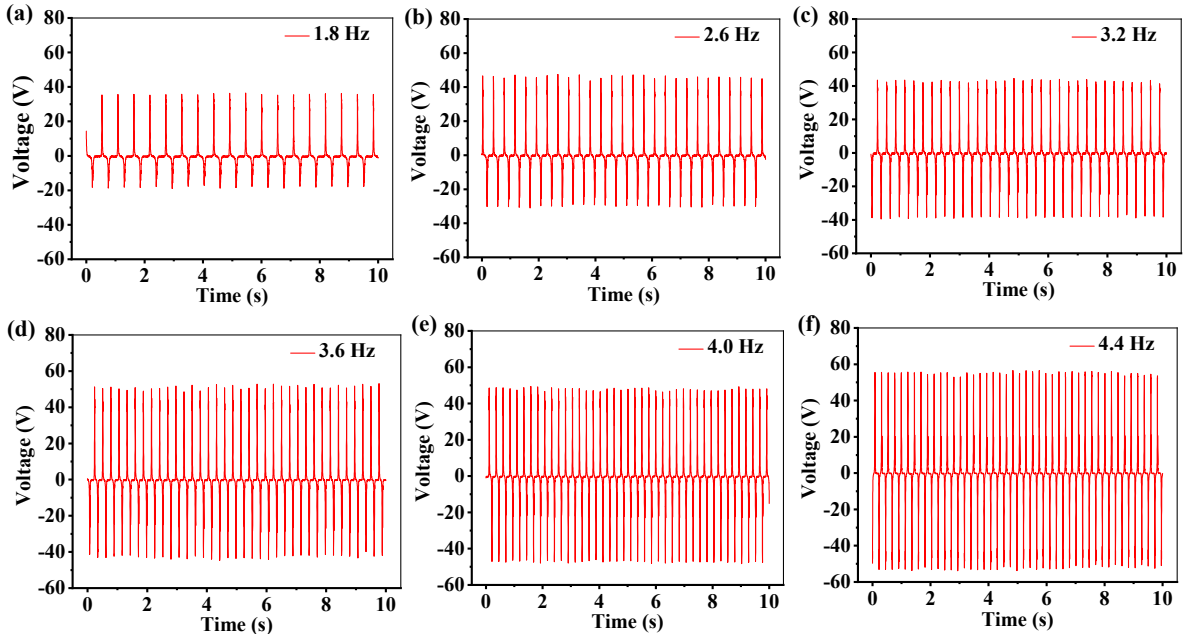


**Figure S2:** $V_{OC}$ at different frequency.

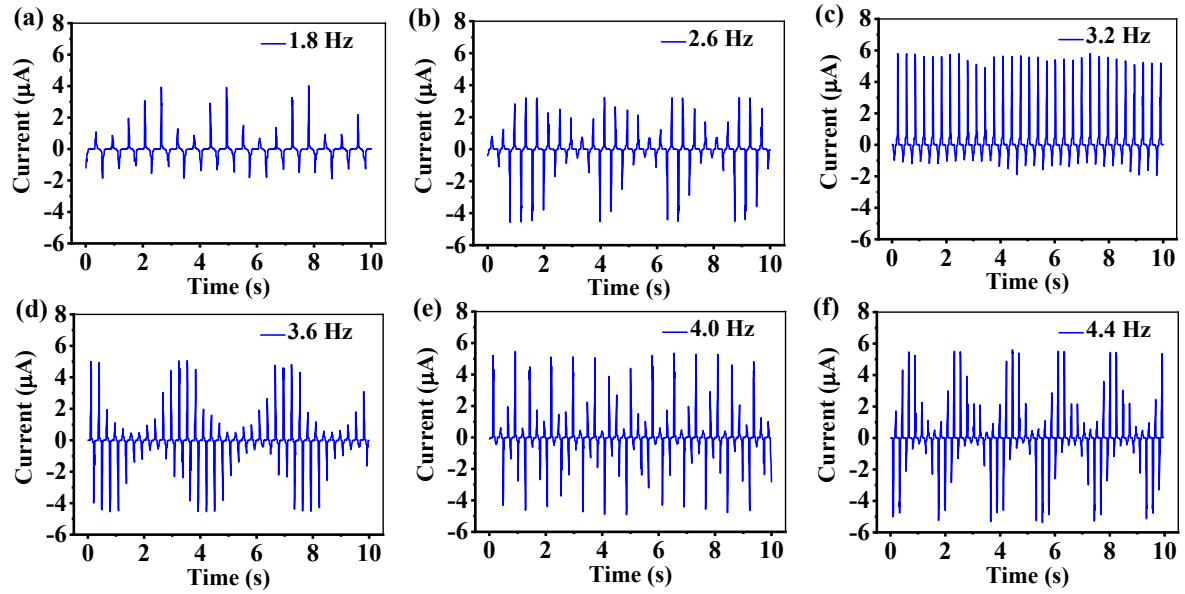


**Figure S3:** $I_{SC}$ at different frequency.

LED.mp4

Video S1: LED glowing

HMI application.mp4