## **Supporting Information**

Dielectric Control of Porous Polydimethylsiloxane

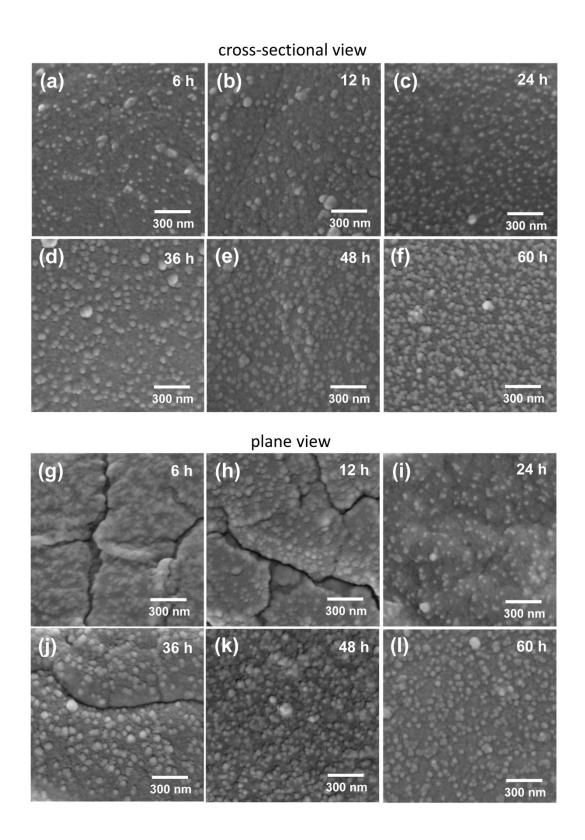
Elastomers with Au Nanoparticles for Enhancing the

Output Performance of Triboelectric Nanogenerators

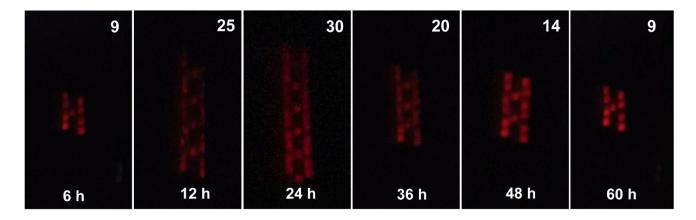
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**Figure S1.** (a - f) Cross-sectional and (g - l) plane view FE-SEM images of composites PDMS/PDA/Au sponges under different immersion time.



**Figure S2.** Photos of LEDs lit by TENG devices with composites PDMS/PDA/Au sponges under different immersion time. The number on the upper right side corresponds to the lighted LEDs.