

Supplementary Materials: Effects of Embedded TiO_{2-x} Nanoparticles on Triboelectric Nanogenerator Performance

Hyun-Woo Park, Nghia Dinh Huynh, Wook Kim, Hee Jae Hwang, Hyunmin Hong, KyuHyeong Choi, Aeran Song, Kwun-Bum Chung, and Dukhyun Choi

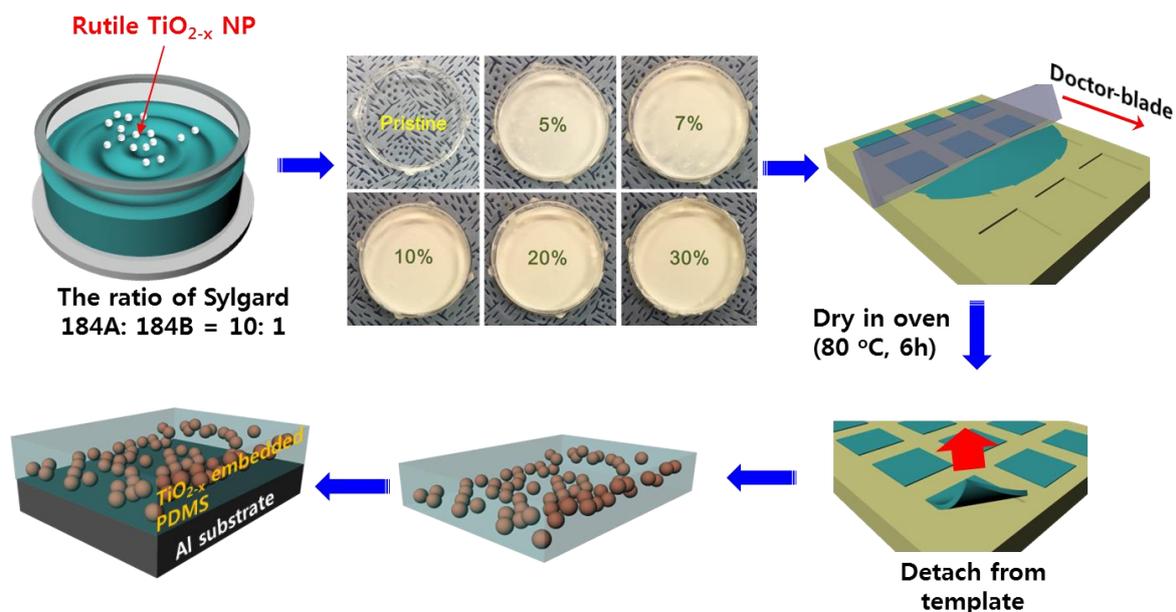


Figure S1. Schematic of the fabrication process for TiO_{2-x} NPs embedded TENG.

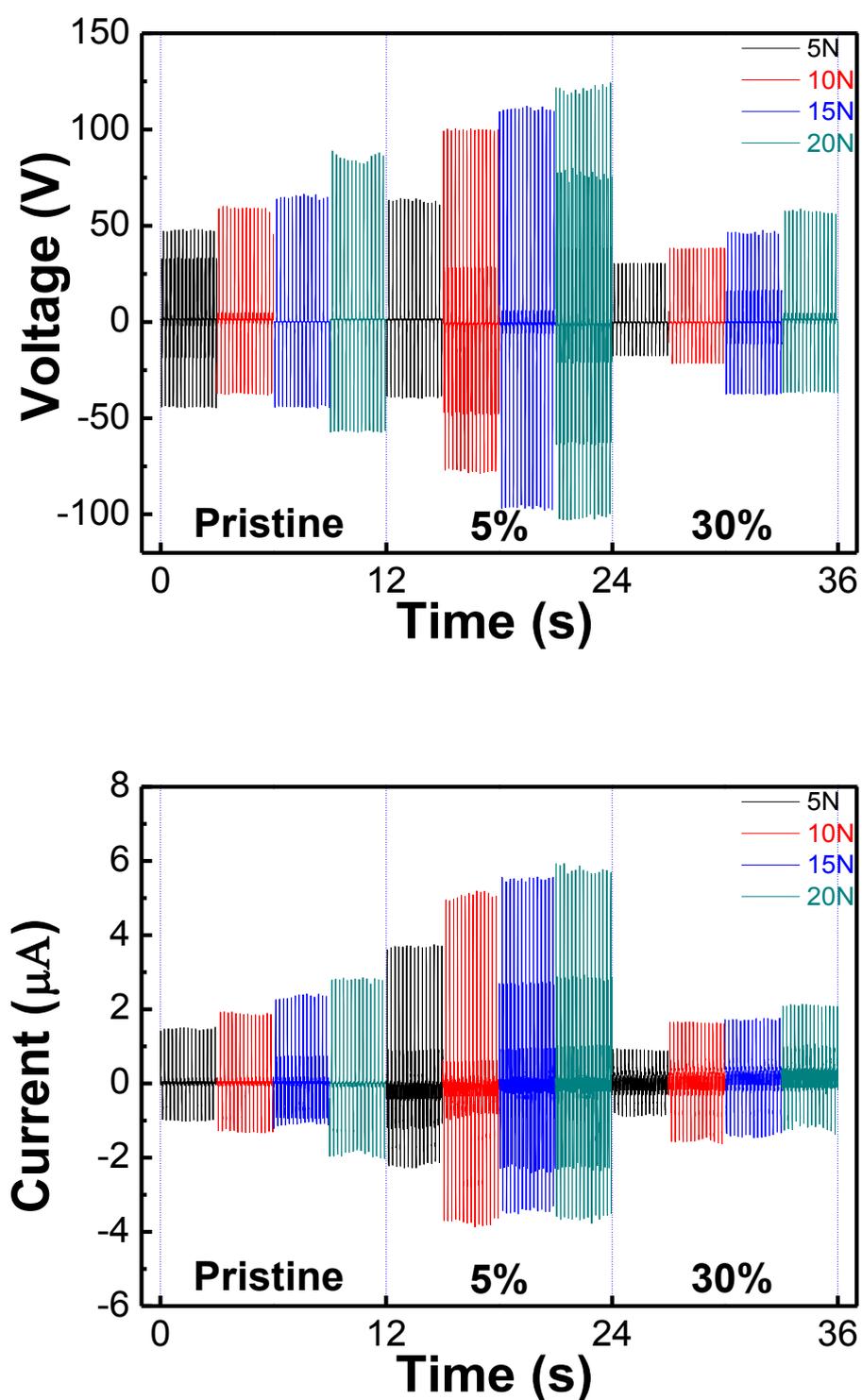


Figure S2. The voltage and current output performance of the TiO_{2-x} NPs-embedded PDMS based TENG with TiO_{2-x} NPs weight ratio of 0%, 5% and 30% at different applied forces ranging from 5 N to 20 N and pushing frequency of 5 Hz.

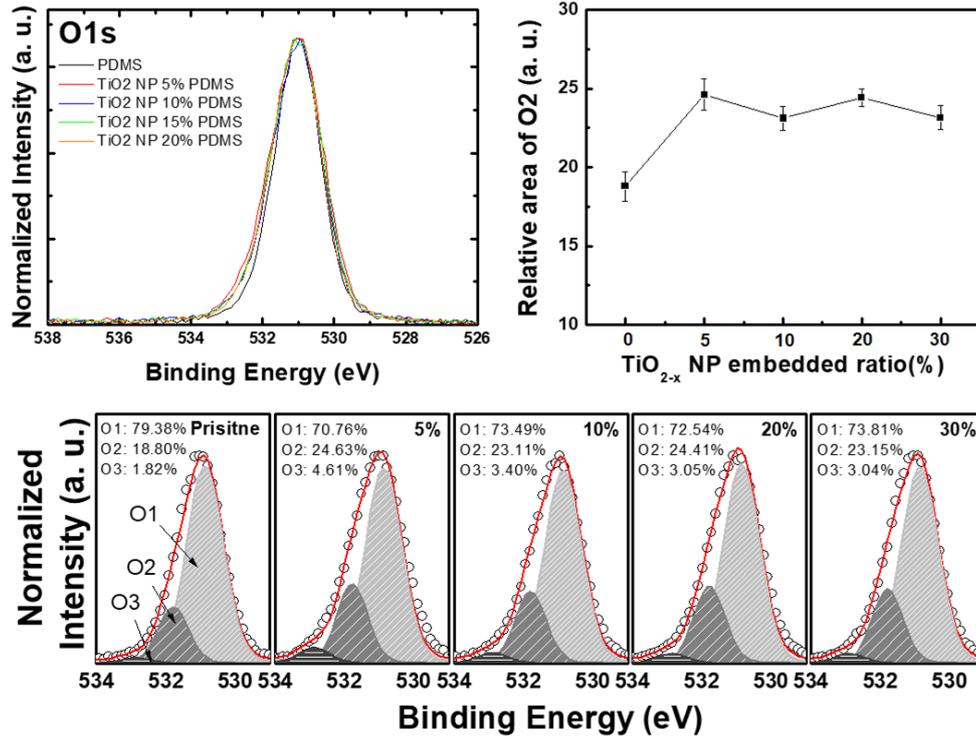


Figure S3. Change of oxygen deficient states with various TiO_{2-x} NP concentrations.

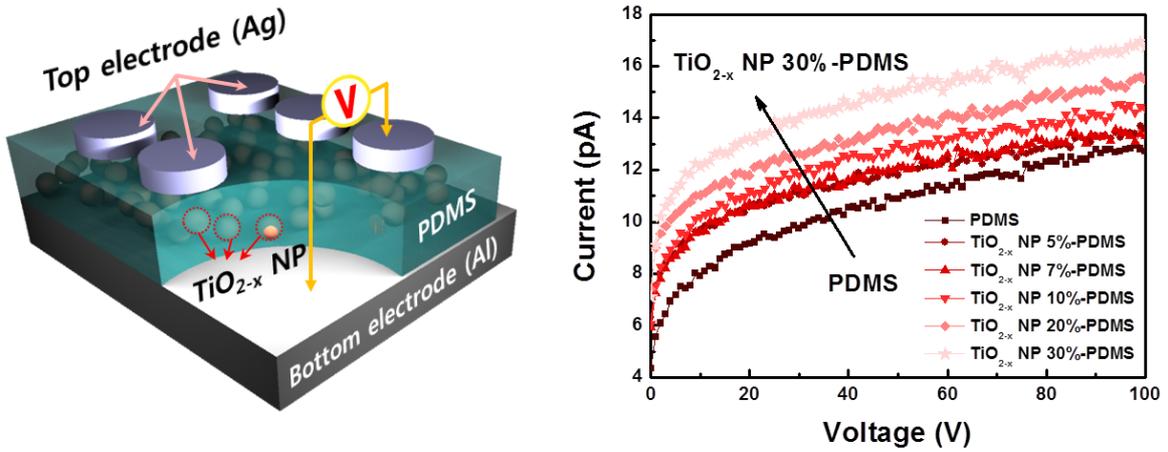


Figure S4. Leakage current characteristics of PDMS layer as a function of TiO_{2-x} NPs embedded ratio.