

Supplementary Materials

TiO₂ Nanoparticles/Nanotubes for Efficient Light Harvesting in Perovskite Solar Cells

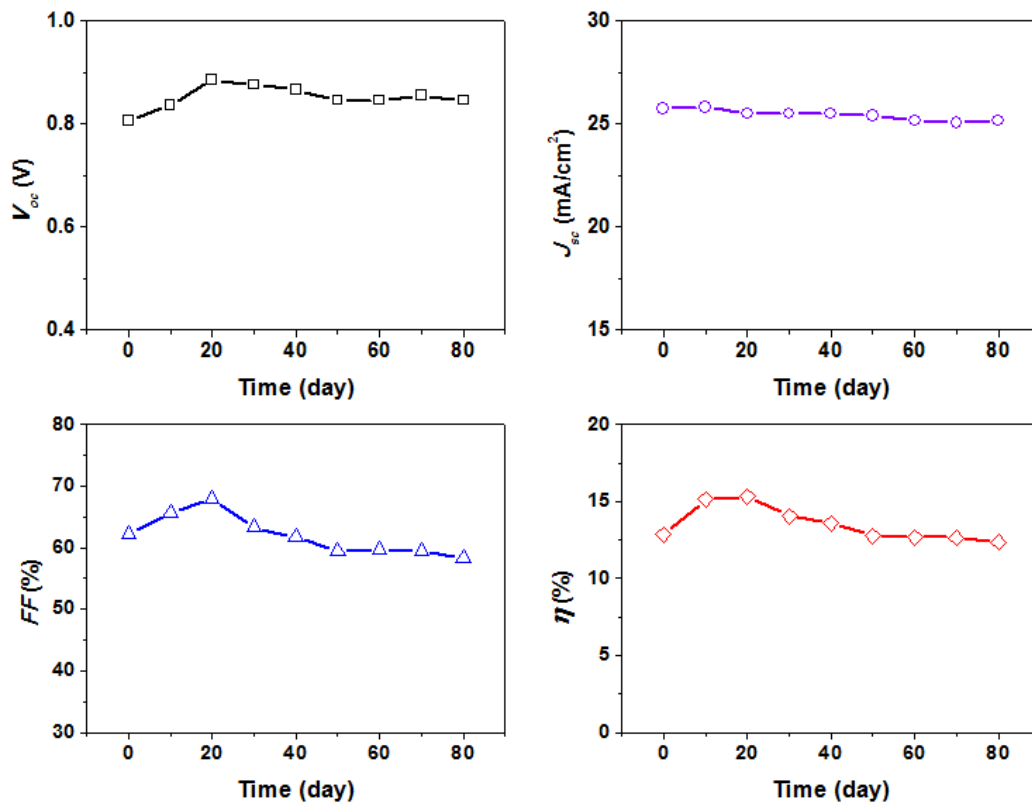


Figure 1. The stability of perovskite solar cells with 9 wt % of TiO₂ nanotubes in a TiO₂ composite film: (a) V_{oc} , (b) J_{sc} , (c) FF , and (d) efficiency (η).

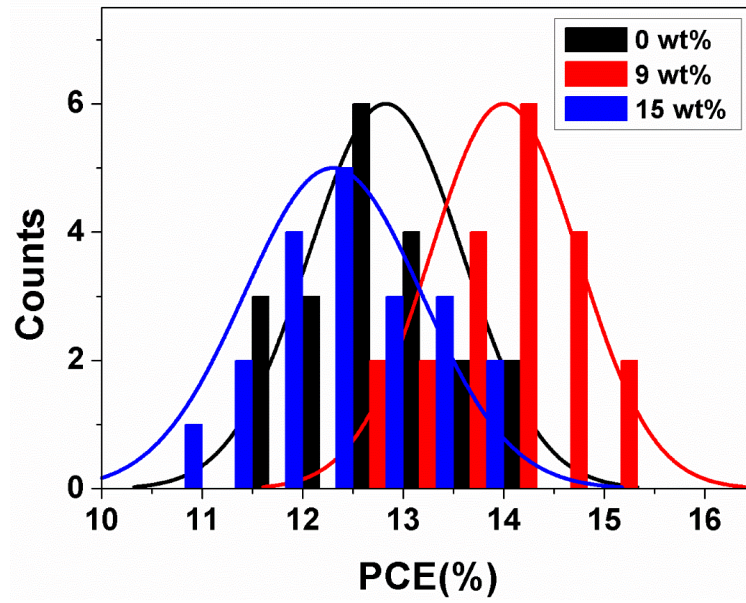


Figure S2. The histograms of power conversion efficiency (PCE) with 0 wt % (black), 9 wt % (red), and 15 wt % (blue) of TiO₂ nanotubes in the active layer.