

Non-conjugated anionic polyelectrolyte as an interfacial layer for the organic optoelectronic devices

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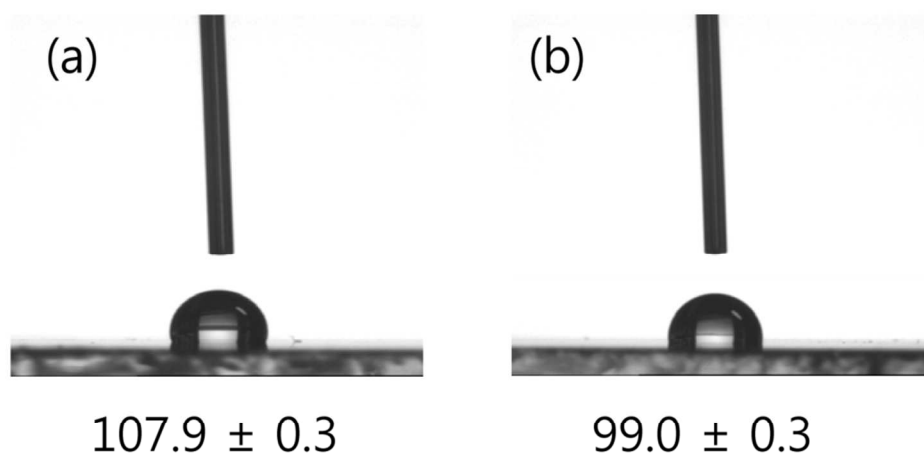


Figure S1. The water contact angle on (a) the active layer (P3HT:PCBM blend) and (b) the PSS-Na coated active layer.

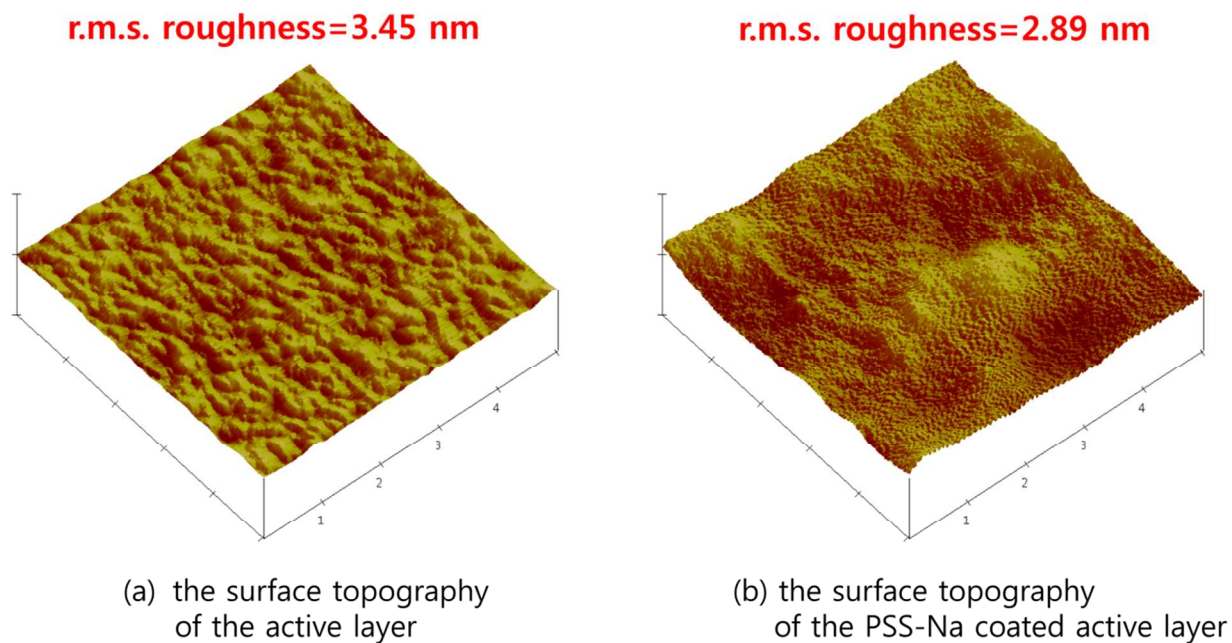


Figure S2. The surface topography of (a) the active layer (b) the PSS-Na film spin-coated from the concentration of 0.5 mg/mL on the active layer. (x, y = 1 $\mu\text{m}/\text{div.}$, z = 100 nm/div.)

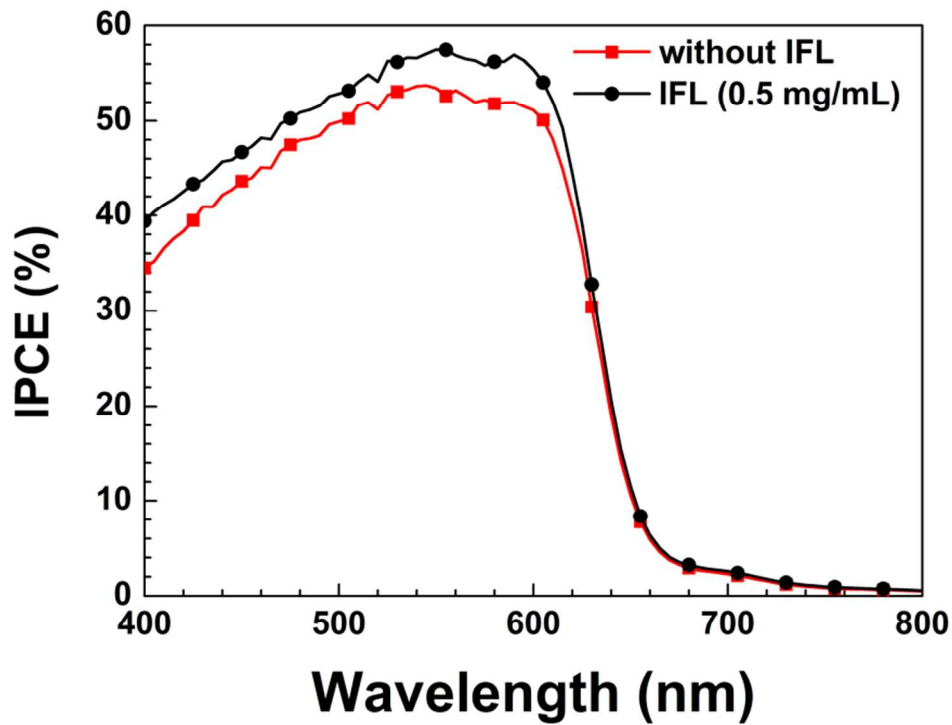


Figure S3. IPCE spectrum of PSCs. The incident photon to collected electron efficiency (IPCE), external quantum efficiency, was calculated by:

$$\text{IPCE (\%)} = 1240 \times J_{\text{sc}} / \left(\frac{\lambda}{I_{\text{p}}} \right)$$

where J_{sc} ($\mu\text{A}/\text{cm}^2$) is the short circuit current density measured at the wavelength λ (nm) and I_{p} (W/m^2).