Electronic Supplementary Information (ESI) for

High efficiency conjugated polymer/Si hybrid solar cells with tetramethylammonium hydroxide treatment

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Fig. S1 Cross-section SEM image of SiNWs covered with PEDOT:PSS layer. The scale bar is 200 nm.
Fig. S2 XPS measurements (in eV) of the Si substrate without (W/O, freshly prepared by HF) and with (W) TMAH treatment.

![Graph showing XPS measurements of Si substrate](image)

Fig. S3 SEM images of the rear surface of SiNWs substrate (a) without and (b) with TMAH treatment. The scale bar is 200 nm.

![SEM images of SiNWs substrate](image)

Fig. S4 UPS analysis of silicon substrate without and with TMAH treatment

![Graph showing UPS analysis](image)
Fig. S5 Stability measurement of the devices without and with TMAH treatment

Fig. S6 The reflection spectra of SiNWs with different TMAH treatment time.