

Supporting information

Chemically Tunable Photoresponse of Ultrathin Polypyrrole

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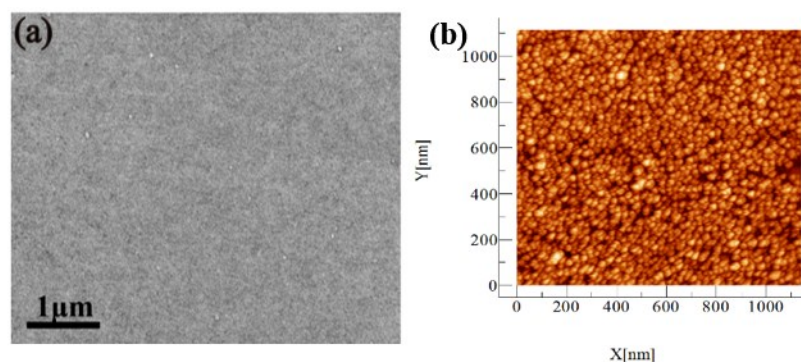


Figure S1. (a) Top-view SEM image and (b) AFM image of 15 nm PPy film.

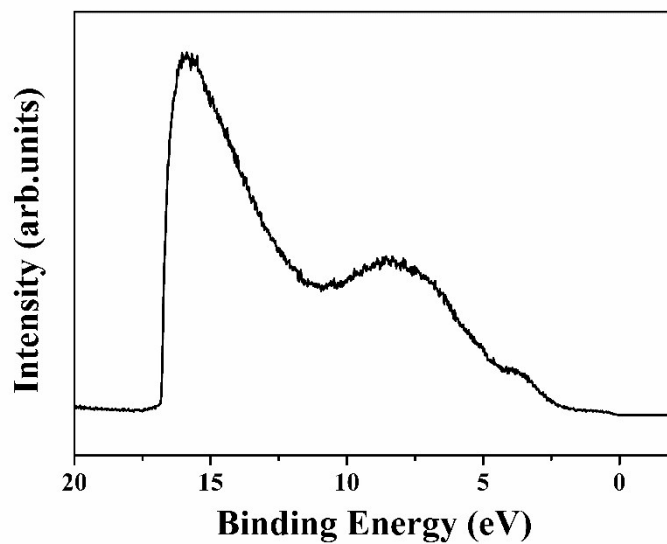


Figure S2. UPS spectra of PPy film treated with 0.05 M NaOH solution.

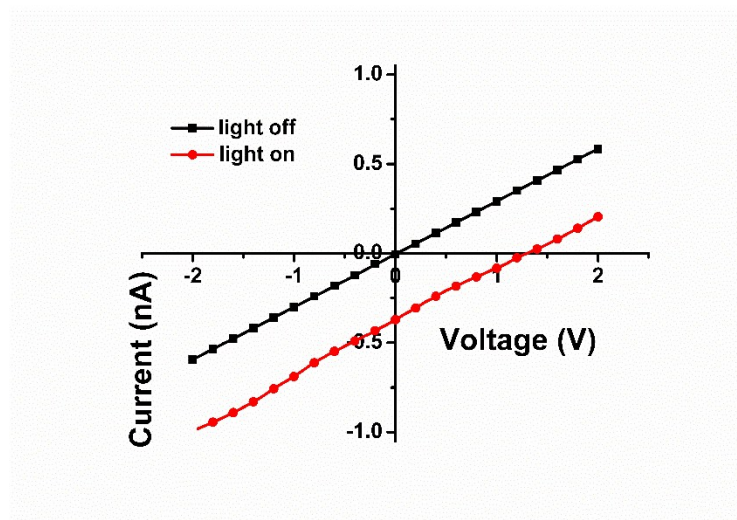


Figure S3. *I-V* curves measured on the PPy film with light on/off at exchange source and drain terminal compare with Figure 2A.

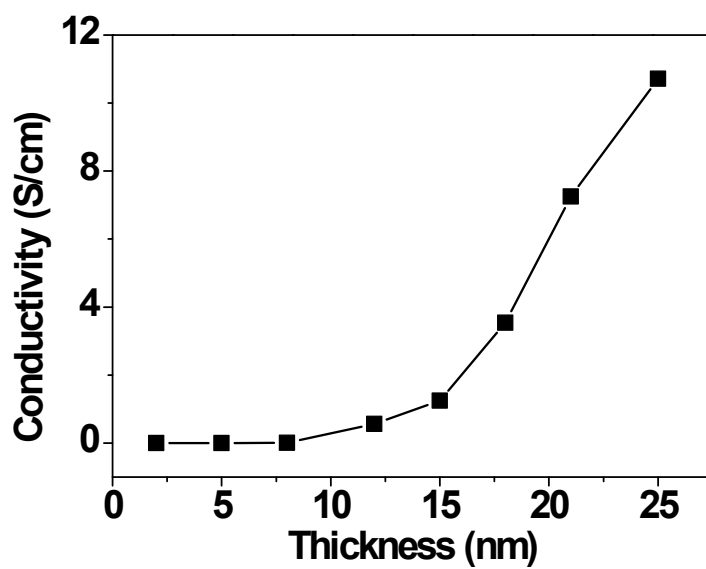


Figure S4. The variations of electrical conductivity with thickness of the PPy film layer.

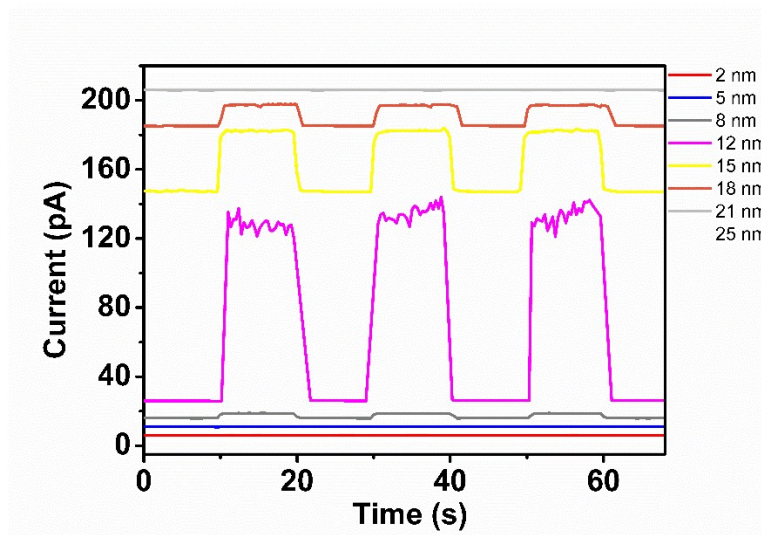


Figure S5. On-off curve of PPy film device with different thickness.

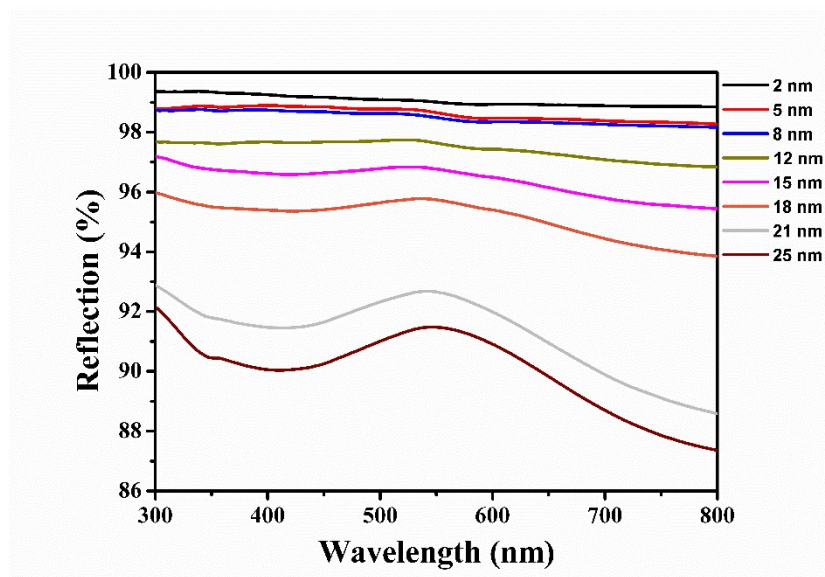


Figure S6. The UV-Vis reflection spectra of the PPy films with different thickness.