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- Thin film of PPy doped with hydroquinone monosulfonate (HQS) was immobilized onto the PPyHQS film by mean of physical adsorption.
- FT-IR, XPS and SEM were performed to confirm the existence of urease in PPyHQS film.
- PPyHQS immobilized with urease activity of 200 U/mL showed the sensitivity of 43.4 ± 3.3 mV/pUrea over urea concentration of 0.5 mM to 10 mM.

Keywords: Polypyrrole; Urea biosensor; Urease immobilization