Supplementary Information for:

**Starch-assisted synthesis of polypyrrole nanowires by a simple electrochemical approach**

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Fig. S1. SEM images of PPy nanowires synthesized with different concentrations of pyrrole: (a) [pyrrole] = 0.06 M, (b) [Pyrrole] = 0.10 M, (c) [Pyrrole] = 0.14 M, (d) [Pyrrole] = 0.22 M. The concentration of starch is 0.020 wt.%. 

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Fig. S2. SEM images of PPy nanowires synthesized with different concentrations of soluble starch: (a) 0.004 wt.%, (b) 0.008 wt.%, (c) 0.016 wt.%, (d) 0.020 wt.%. The concentration of pyrrole is 0.14 M.
Fig. S3. FTIR spectra of (a) PPy nanowires, (b) cauliflower-like PPy synthesized in the absence of starch, and (c) soluble starch.
Fig. S4. X-ray photoelectron spectrum (XPS) of PPy nanowires.
Fig. S5. Cyclic voltammograms of PPy nanowires (——) and cauliflower-like PPy (----) in 0.15 M NaCl solution at scan rate of 25 mV S$^{-1}$. 
Fig. S6. X-ray diffraction pattern of PPy nanowires synthesized in the presence of soluble starch.