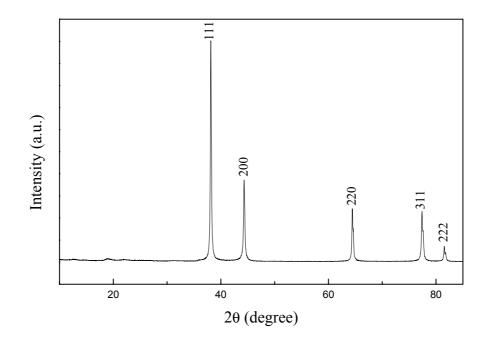
Supporting Information

1. The following figure shows the XRD pattern of as-synthesized Ag/PPy nanocables,

which indicates the fcc phase of silver, expect for the broad faint peaks at 2θ =

18.920°, which indicate that the polymer of the as-prepared sample is amorphous.



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2. Fourier transform infrared (FTIR) spectra showed the characteristic bipolaron bands at 1200 and 925 cm⁻¹ indicating the formation of PPy in its doped state. The peaks between 1650, 1540 and 1456 cm⁻¹ are assigned as fundamental vibrations of pyrrole rings. The peak at 3400 cm⁻¹ is assigned as N-H stretching vibration. This spectrum is nearly identical to that of the PPy oxidized by FeCl₃ reported in our previous work, the only exception being the presence of an additional peak at 1380 cm⁻¹ due to the N-O stretch of NO₃⁻ counterion.

