Supplementary Information

Controlled growth of polyhedral and plate-like Ag nanocrystals on nanofiber mat as SERS substrates

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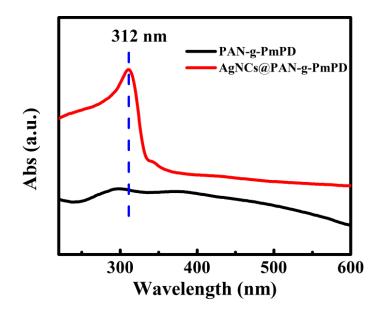


Figure S1. UV-Vis spectra of the PAN-g-PmPD nanofiber and the AgNCs@PAN-g-PmPD nanofiber.

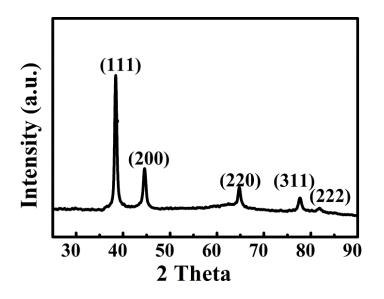


Figure S2. XRD pattern of AgNCs@PAN-g-PmPD nanofiber which was prepared at the condition of pH=10.7, T=60 °C, c=10 g/L.

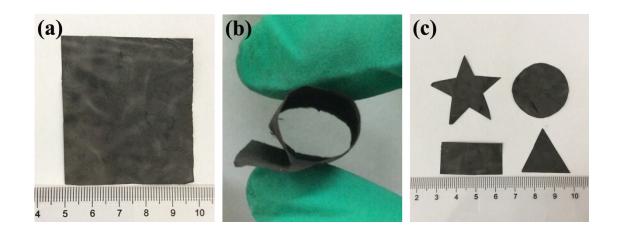


Figure S3. The photograph of the AgNCs@PAN-g-PmPD nanofiber mat (a) which was folded into a hollow cylinder (b) and tailored into several pieces with any desired shape (c).

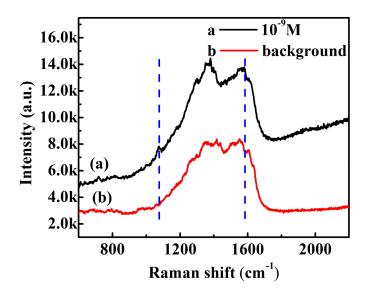


Figure S4. (a) SERS spectra of 10⁻⁹ M 4-MBA adsorbed on the AgNCs@PAN-g-PmPD nanofiber mat (T=60 °C, pH=10.74, c=10 g/L). (b) SERS spectra of the pure AgNCs@PAN-g-PmPD nanofiber

mat