

Electronic Supplementary Information (ESI)

Polyamide 6 composite nano-fiber/net functionalized by polyethyleneimine on quartz crystal microbalance for highly sensitive formaldehyde sensors

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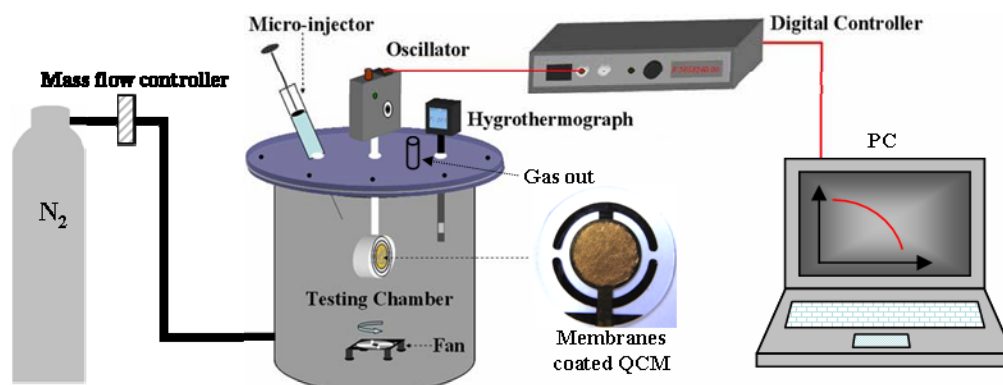


Figure S1. Schematic of a gas testing system for formaldehyde detection.

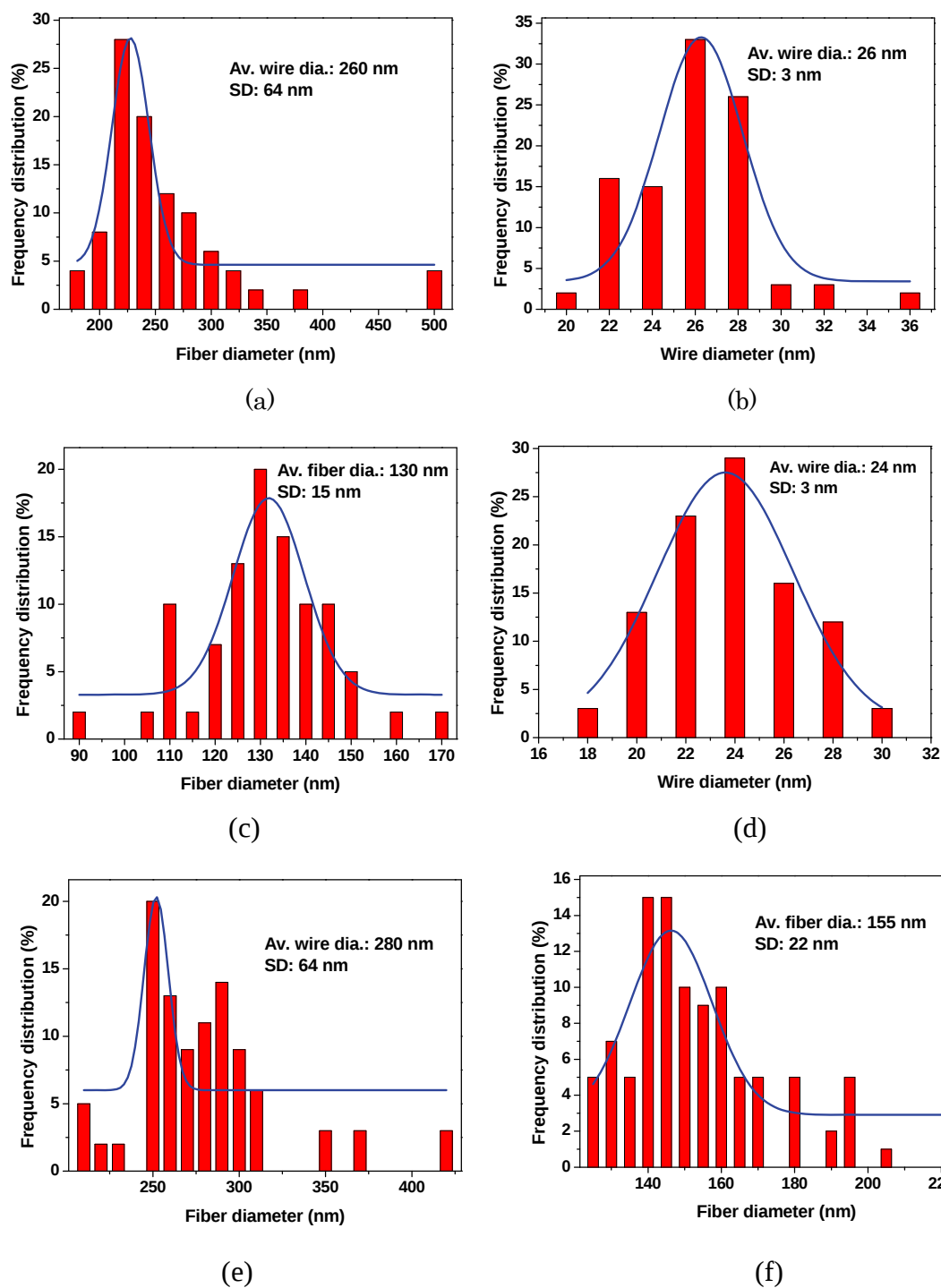


Figure S2. Histograms showing the nanofiber and nanowire diameter distributions of PA 6 NFN membranes formed with with different voltages: (a, b) 20 kV and (c, d) 30 kV; and their corresponding samples modified with PEI: (e) PEI-PA 6 (20 kV) and (f) PEI-PA 6 (30 kV).

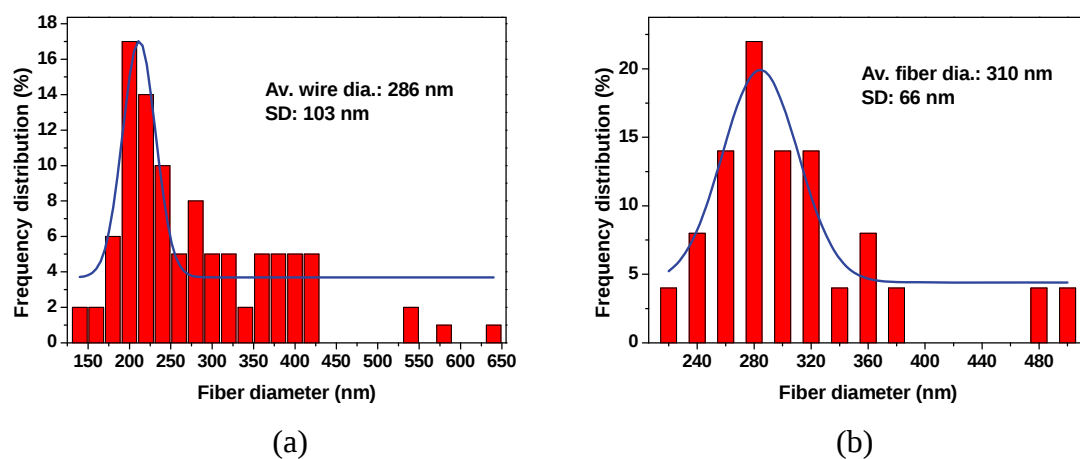


Figure S3. Histograms showing the fiber diameter distributions of PS fibrous membranes before (a) and after (b) surface modification with PEI.

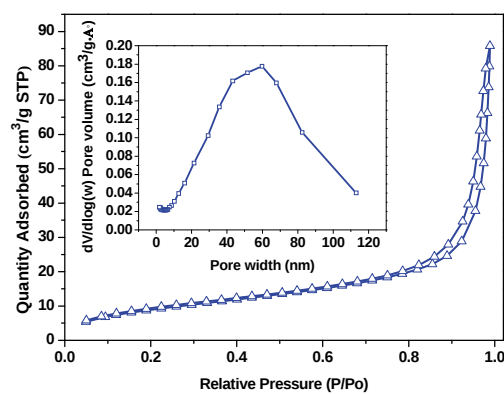


Figure S4. N_2 adsorption-desorption isotherms and pore diameter distributions of PS fibers.