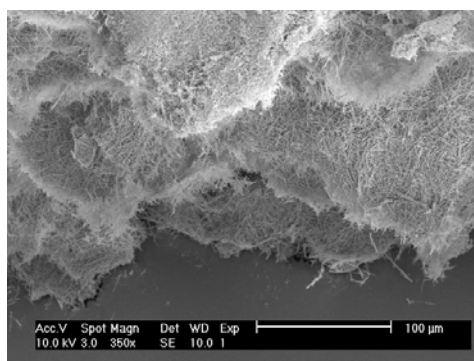


# Multifunctional, Catalytic Nanowire Membranes and the Membrane-Based 3D Devices

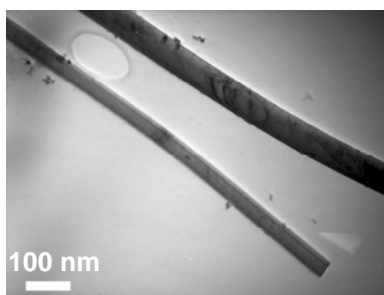
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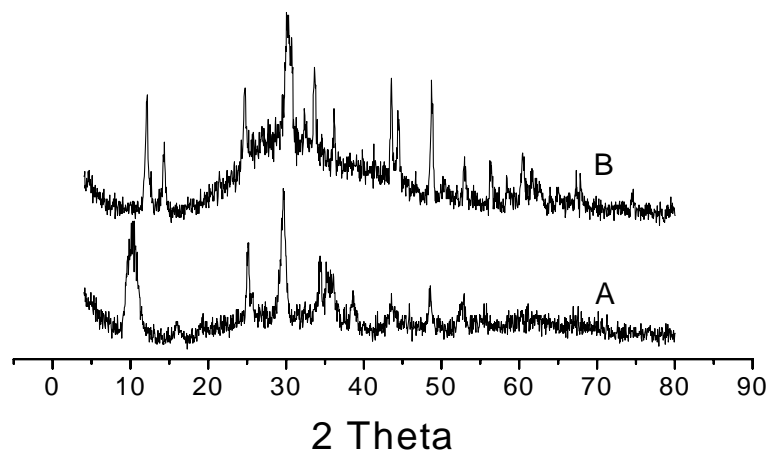
## Supporting information:



**S1.** A low-resolution FESEM photograph indicating the multi-deck texture calcined at 700 °C.



**S2.** A TEM picture presenting the single nanowire diameter for the sample calcined at 700 °C.



**S3.** X-ray powder diffraction pattern of titanate nanofiber. (a) as prepared. (b) calcined at  $700^\circ\text{C}$  for 3 h.