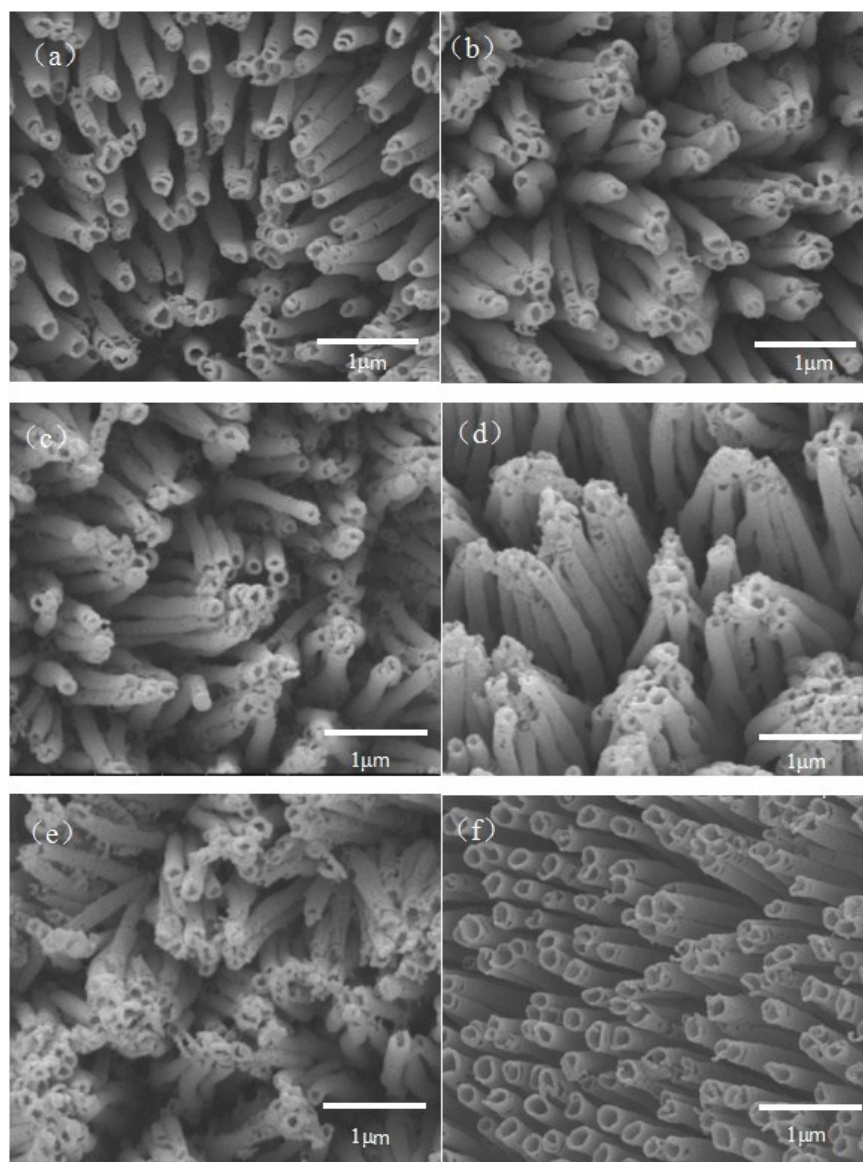


Electronic Supplementary Information

MnO₂ modified TiN nanotube arrays on Ti mesh for flexible supercapacitors

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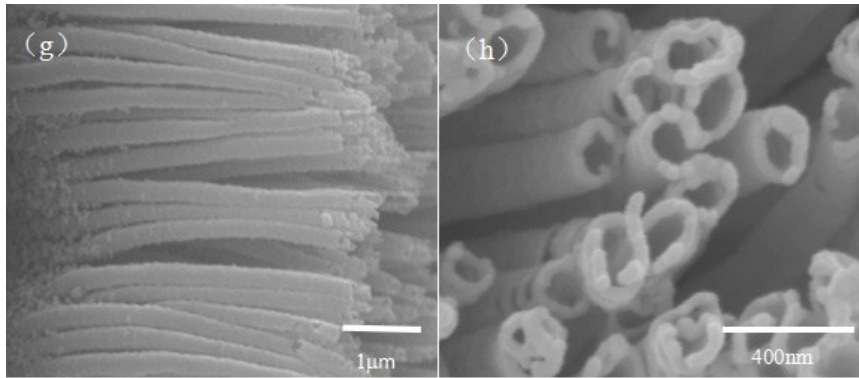


Fig.S1 SEM image of (a) 650°C (b) 700°C (c) 750°C (d) 800°C (e) 850°C (f) original TiO₂ (g) cross section of original TiO₂ (h) pipe orifice of nanotube

Fig.S1 shows the TiO₂ nanotube arrays anneal under a series temperature in the NH₃ atmosphere, after annealing, the nanotube maintain the structure basically, some nanotubes tend to gather, with the temperature higher, the tendency more obvious, Fig.S2 shows the XRD pattern of the samples which are corresponding to the Fig.S1, in the Fig.S2, the diffraction peak of anatase disappear at 750 °C, so the sample with annealing under 750 °C is best choice.

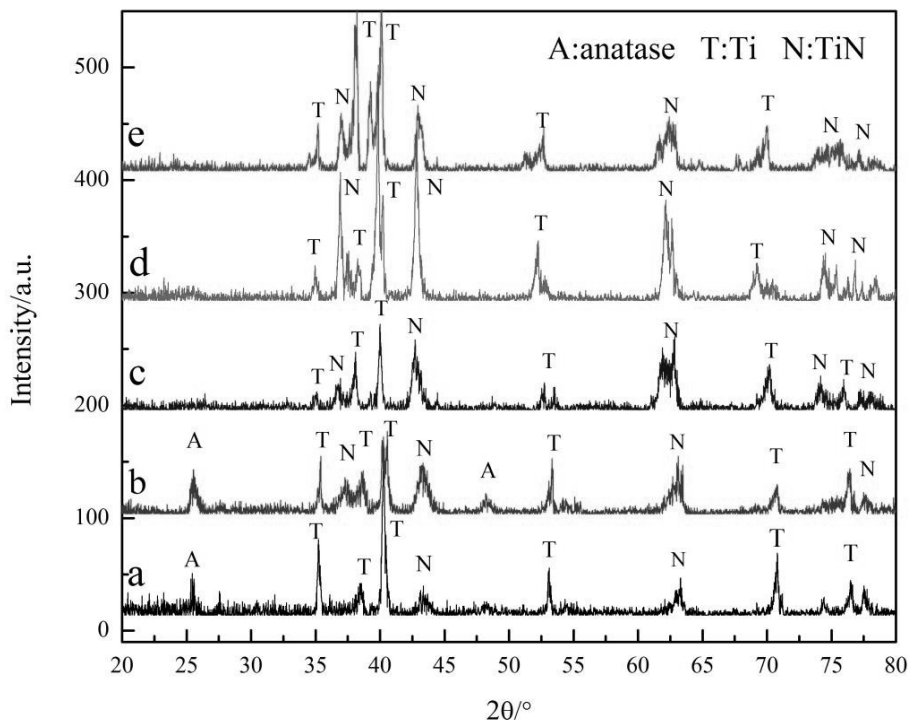


Fig.S2 XRD pattern of TiN for (a) 650°C (b) 700°C (c) 750°C (d) 800°C (e) 850°C