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## **Supporting Information**

## $\label{lem:construction} Construction of One-dimensional \ MoO_2/NC \ Heteronanowires \ for$ $\label{lem:construction} Microwave \ Absorption$

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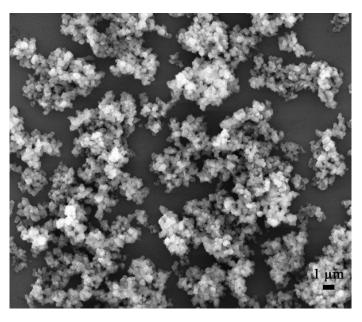


Fig. S1 SEM image of pristine PPy nanoparticles

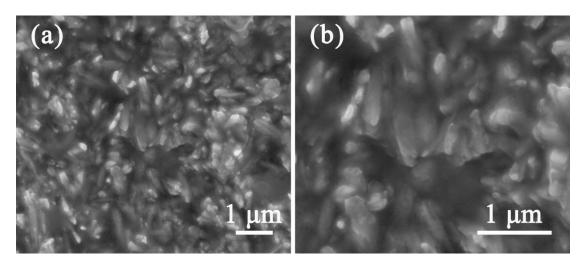


Fig. S2 SEM images of the fracture section of MoO<sub>2</sub>/NC-TPU membrane

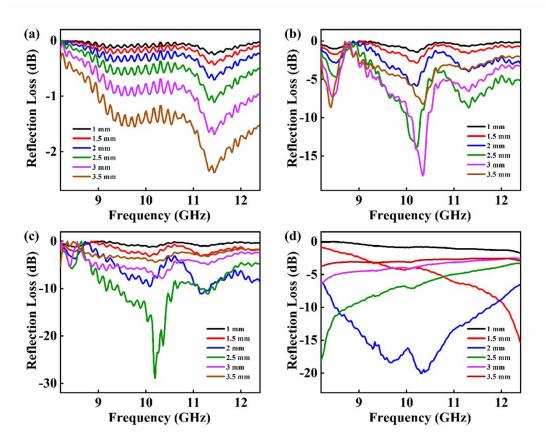


Fig. S3 Microwave RL curves of (a) pure TPU; (b) 20 wt%  $MoO_2/NC$ -TPU; (c) 30 wt%  $MoO_2/NC$ -TPU and (d) 40 wt%  $MoO_2/NC$ -TPU at a thickness range of 1.0-3.5 mm in X band