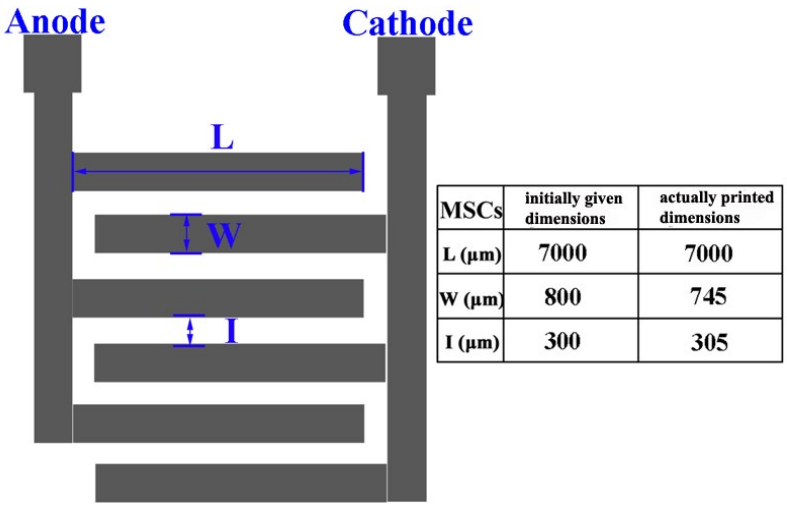
Supporting Information

An easily-manipulated protocol for patterning of MXene on paper for planar micro-supercapacitors

Haibo Hu, Tao Hua*

Nanotechnology Center, Institute of Textiles & Clothing, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong. *E-mail: tao.hua@polyu.edu.hk

Keywords: MXene, Ti_3C_2Tx, micro-supercapacitors, planar



MSCs	initially given dimensions	actually printed dimensions
L (μm)	7000	7000
W (μm)	800	745
I (μm)	300	305

Figure S1. The initially given and actually printed dimensions of designed coplanar interdigital electrodes.

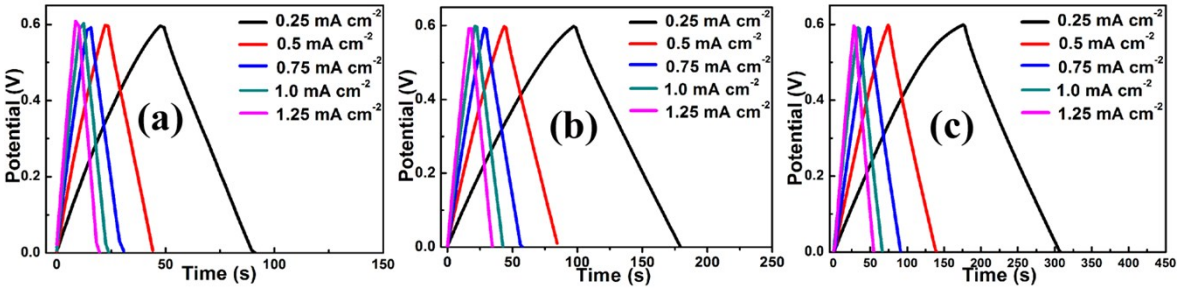


Figure S2. GCD curves of the as-fabricated all-solid-state planar MSCs based on fully delaminated few-layered MXene flakes within a voltage range of 0-0.6 V at different current densities, a) for MSC-25; b) for MSC-50 and c) for MSC-75.

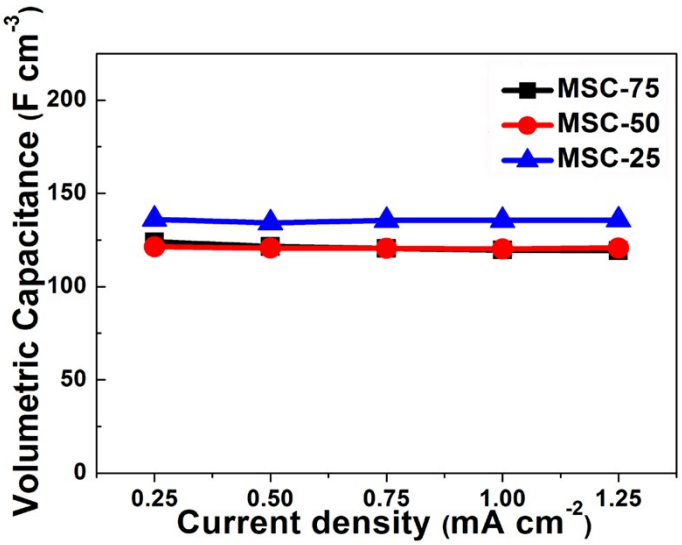


Figure S3. Evolution of the volumetric capacitance of the obtained MXene-based planar all-solid-state MSCs with different thickness of MXene active layer versus current density;

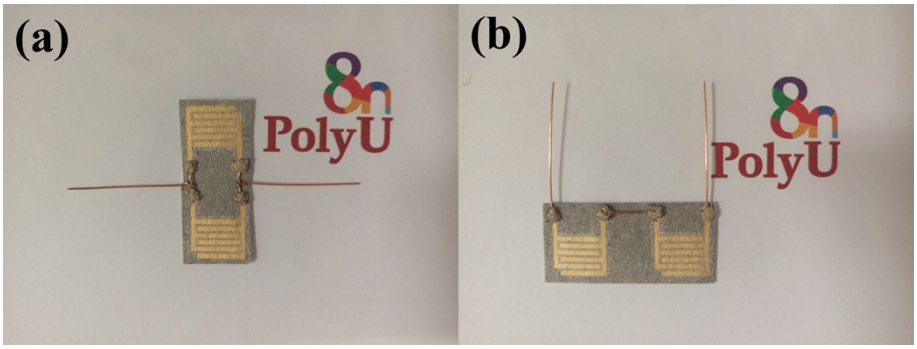


Figure S4. Digital photos of the two devices connected in (a) parallel or (b) tandem

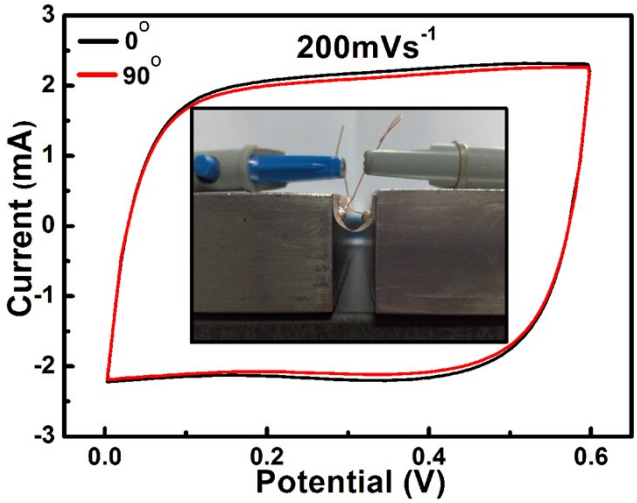


Figure S5. Cyclic voltammetry curves of the MSC-75 under normal and bent conditions at a scan rate of 200 mV s^{-1}, and the inset shows a photograph of the bent device;

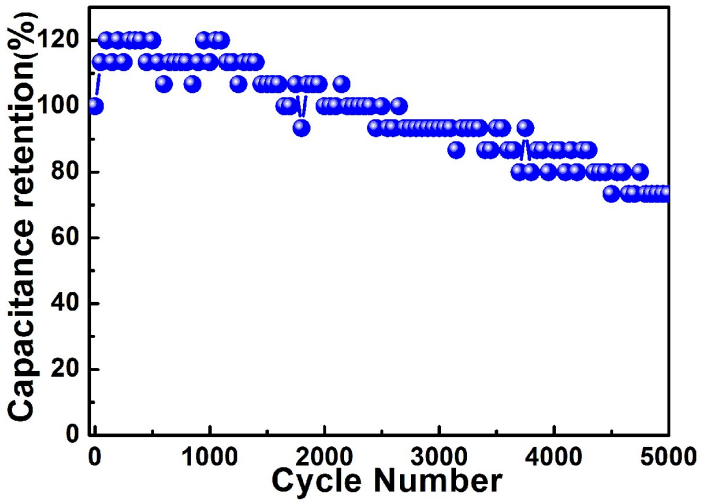


Figure S6. Cyclic stability test of the MSC-75 under a current density of 1.0 mA cm^{-2};