Supporting Information for

Continuously Fabrication of $Ti_3C_2T_x$ MXene-Based Braided Coaxial Zinc-Ion Hybrid Supercapacitors with Improved Performance

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Supplementary Figures and Table

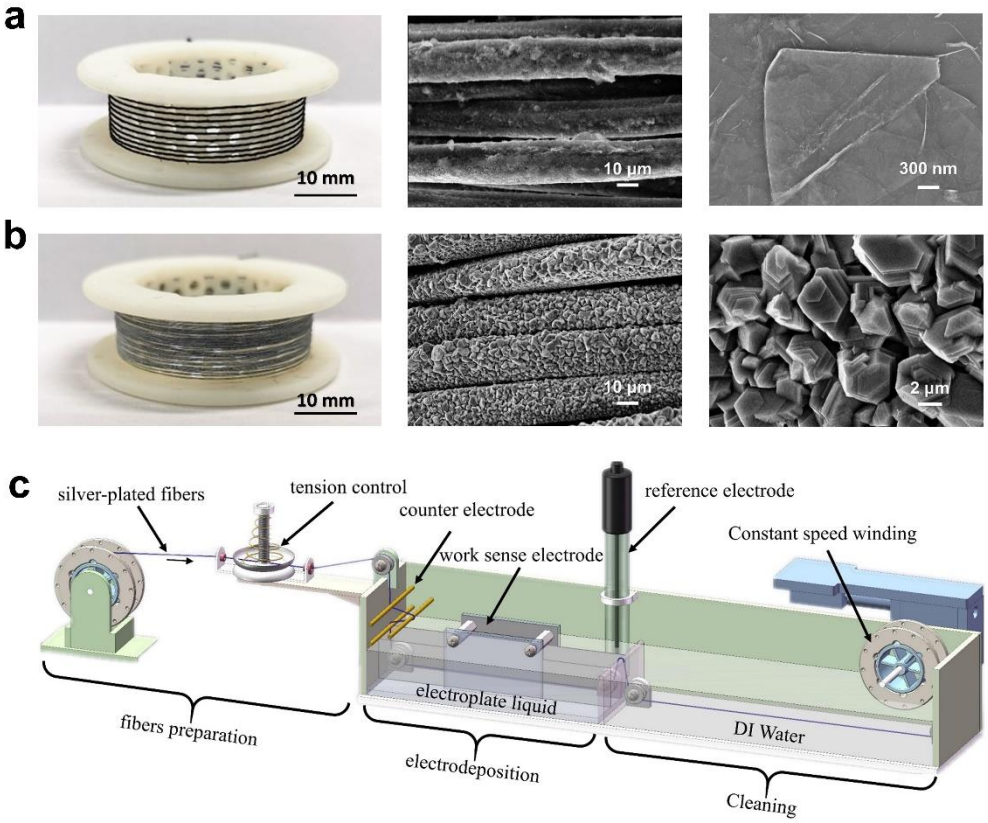

Fig. S1 Preparation of $Ti_3C_2T_x$ MXene and Zinc coated yarns. **a** 1.5 m of the $Ti_3C_2T_x$ MXene fiber cathode. **b** Meters of Zinc-coated yarn. **c** Structure drawing of self-made electrodeposition equipment

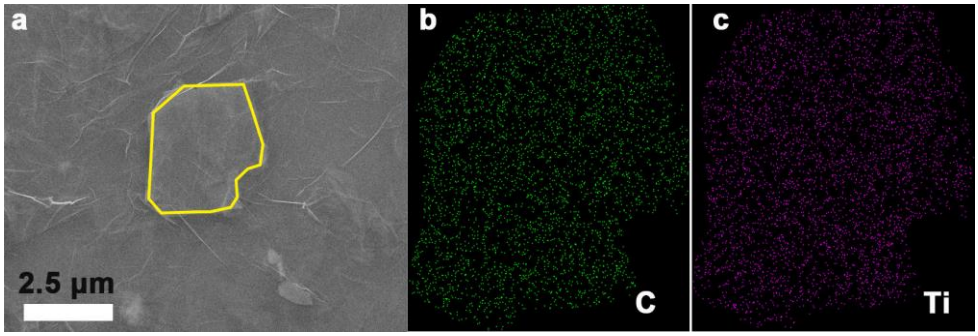

Fig. S2 The mapping images of the $Ti_3C_2T_x$ MXene cathode. **a** SEM images of the $Ti_3C_2T_x$. **b** C element. **c** Ti element

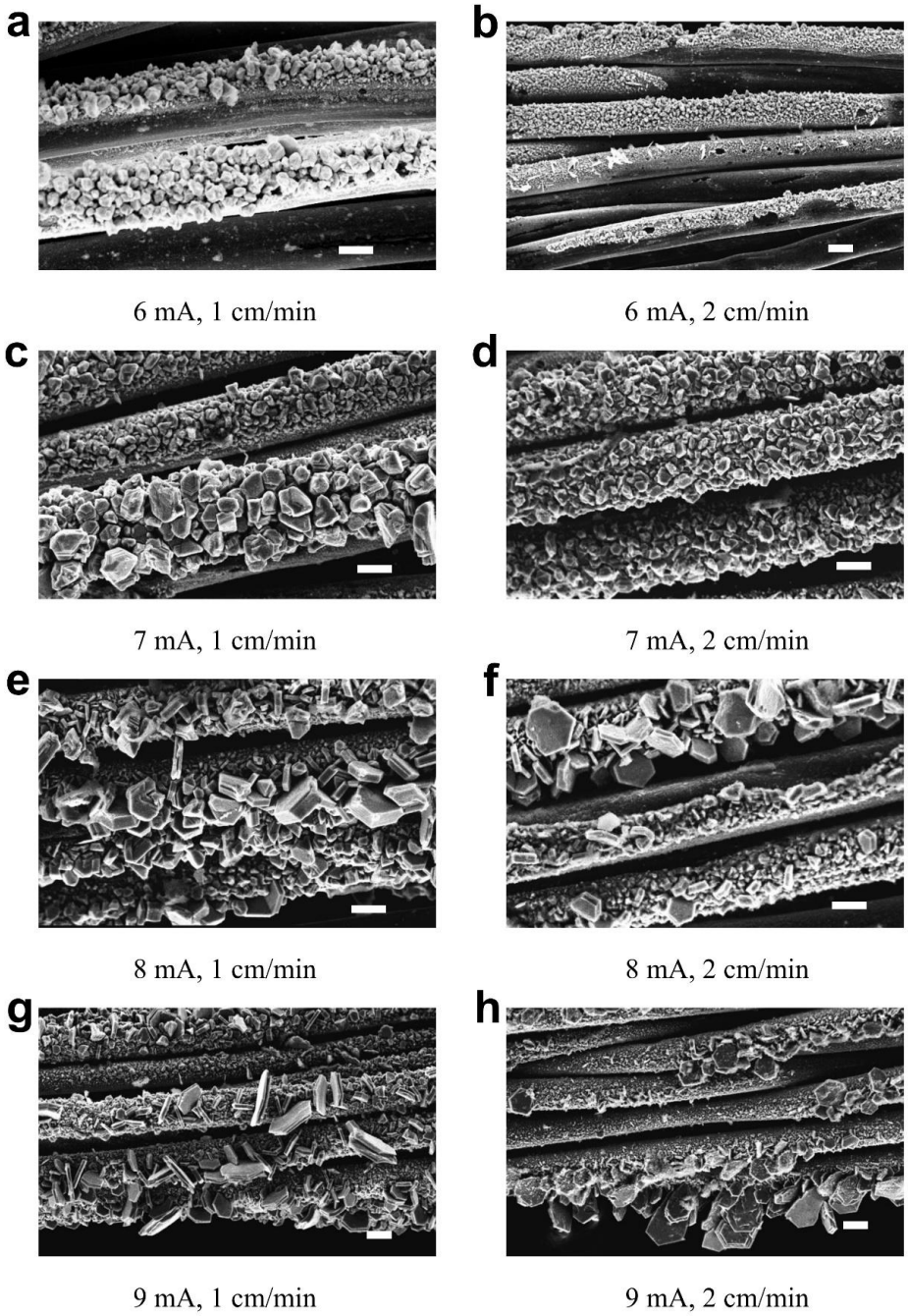

Fig. S3 SEM images of Zinc-coated fibers at different currents and speeds. scale bars: 10 μm

Fig. S4 Picture of the solid-state electrolyte of gelatin with $ZnSO_4$

Table S1 Simulated parameters of the coaxial FSCs with braided and winded coaxial structures

Parameters	Braided coaxial structure	Winded
Diameter of inner electrode (mm)	0.4	0.4
Diameter of external yarn (mm)	0.16	0.16
Diameter of braiding or winding (mm)	0.6	0.6
Pitch of braiding or winding (mm)	0.162	0.48
Number of external yarns	12(6 yarns left-handed, 6 yarns right-handed)	1(Parallel winding)
Voltage of inner electrode (V)	0.6	0.6
Voltage of external electrode (V)	-0.6	-0.6
Volume ratio of external yarns	1∶1	

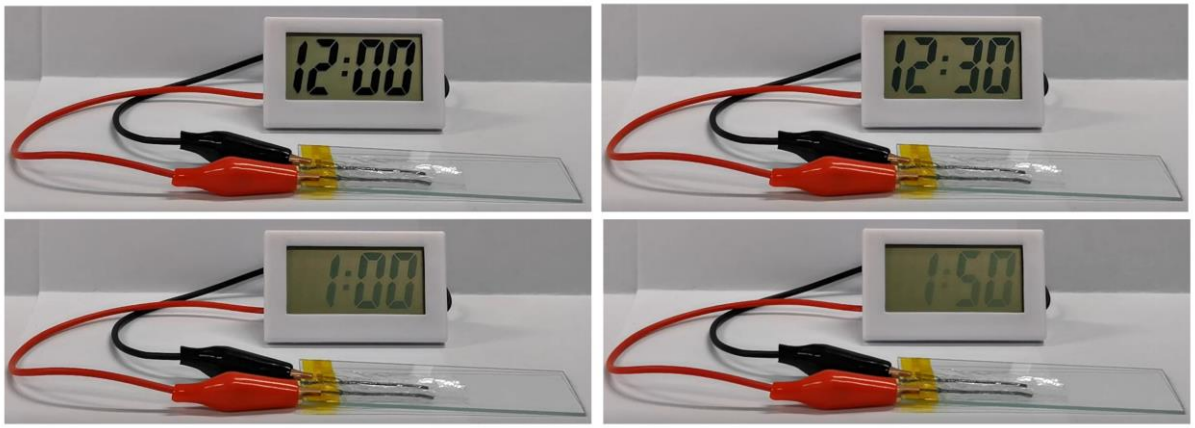

Fig. S5 Two coaxial FSCs in series power the electronic meter for 110 min