

Supporting information

Calligraphic Ink Enabling Washable Conductive Textile Electrodes for Supercapacitors

Do Van Lam,^{ab} Kyungmin Jo,^a Chang-Hyun Kim,^a Sejeong Won,^a Yun Hwangbo,^a Jae-Hyun Kim,^{ab} Hak-Joo Lee,^{ab} and Seung-Mo Lee^{*ab}

^a Department of Nanomechanics, Korea Institute of Machinery and Materials (KIMM), 156 Gajeongbuk-ro, Yuseong-gu, Daejeon 34113, South Korea

^b Nano Mechatronics, Korea University of Science and Technology (UST), 217 Gajeong-ro, Yuseong-gu, Daejeon 34103, South Korea

* Corresponding author: Seung-Mo Lee

Email address: sm.lee@kimm.re.kr

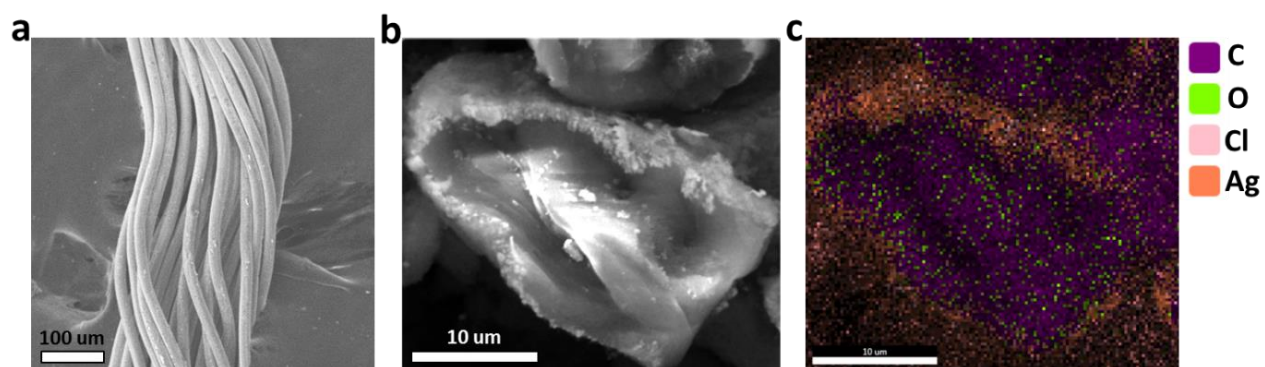


Figure S1. (a) SEM image of a bundle of silver blend fibers. (b) SEM cross-section image of a silver blend fiber at higher magnification. (c) The corresponding EDX elemental distribution in (b).

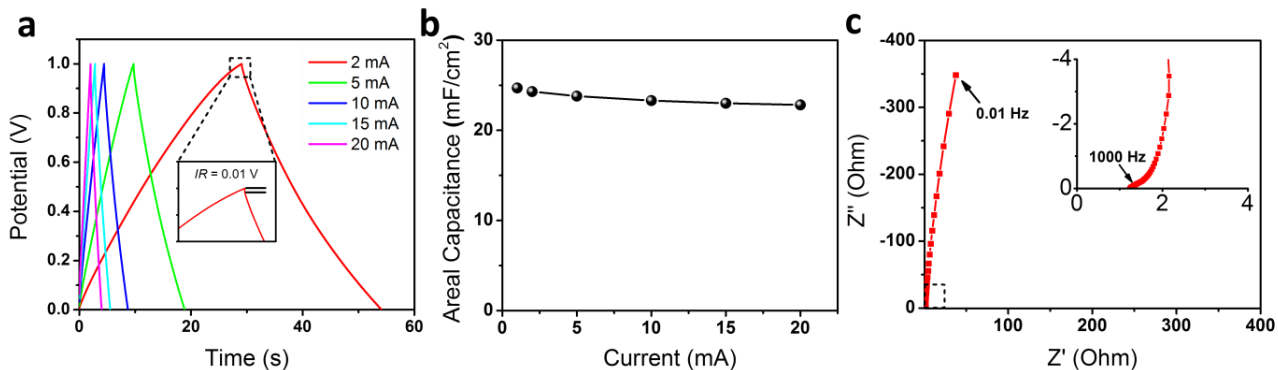


Figure S2. (a) Galvanostatic charge/discharge curves of gel supercapacitor device at different loading currents. (b) Capacitance calculated based on galvanostatic charge/discharge curves. (c) Nyquist plot of the supercapacitor at open circuit potential. The inset shows the magnified high-frequency regions of the Nyquist curve.

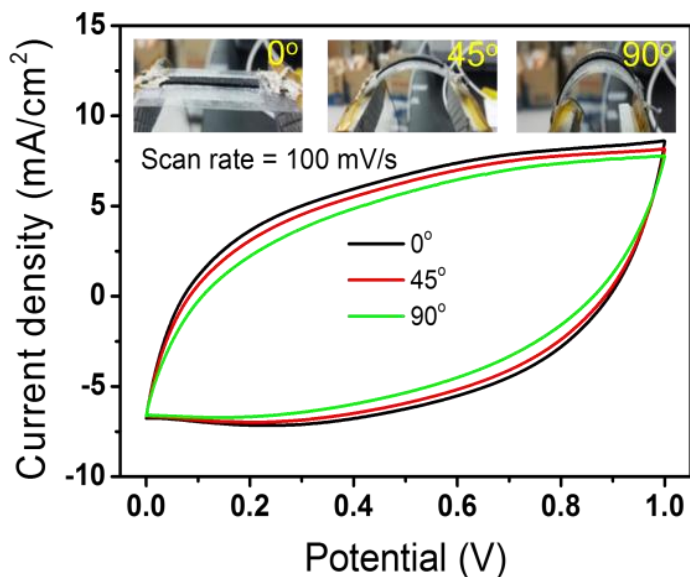


Figure S3. The cyclic voltammety curves of the solid-state supercapacitors collected at the scan rate of 100 mV/s with different bending angles. The inset is photographs of the supercapacitors under different bending angles.