

Supplementary Materials: Superelastic Graphene Aerogel/Poly(3,4-Ethylenedioxythiophene)/MnO₂ Composite as Compression-Tolerant Electrode for Electrochemical Capacitors

Peng Lv *, Yaru Wang, Chenglong Ji, Jiajiao Yuan

Table S1. Mass content and mass loading of the pseudomaterials in different composites.

Composites	PEDOT		MnO ₂	
	Mass Content	Mass Loading	Mass Content	Mass Loading
SEGA/PEDOT	44.9 wt %	2.1 mg cm ⁻²	-	-
SEGA/MnO ₂	-	-	71.0 wt %	6.3 mg cm ⁻²
SEGA/PEDOT/MnO ₂	18.8 wt %	2.1 mg cm ⁻²	58.6 wt %	6.5 mg cm ⁻²

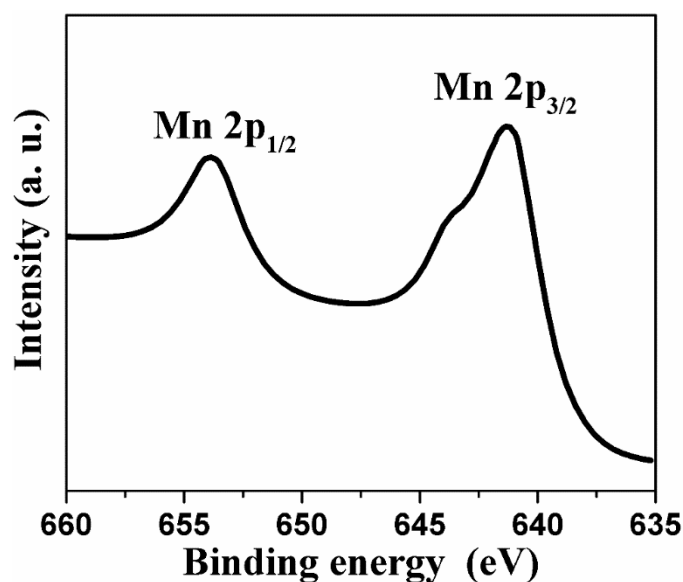


Figure S1. XPS spectrum of Mn 2p of SEGA/PEDOT/MnO₂ composite.

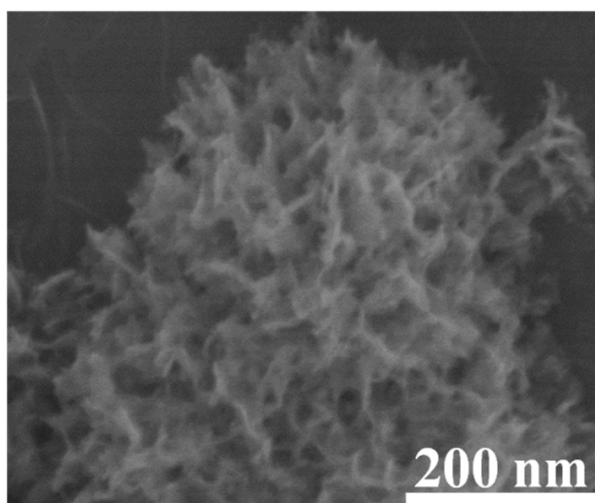


Figure S2. SEM images of SEGA/PEDOT/MnO₂ composite at high magnification.

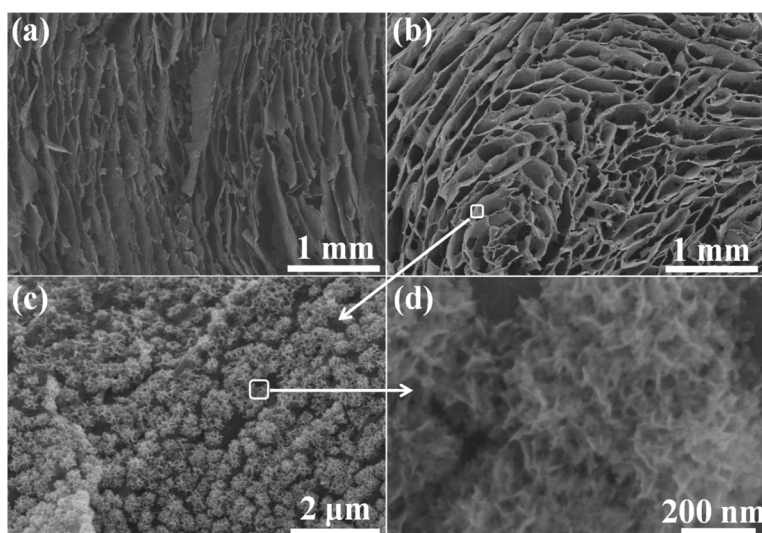


Figure S3. SEM images of SEGA/PEDOT/MnO₂ composite corresponding to the (a) loading status and (b–d) unloading status.

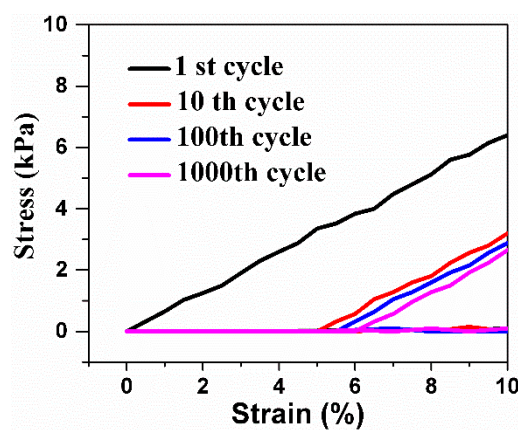


Figure S4. A part of the stress-strain curves (strain ≤ 10%) of SEGA/PEDOT/MnO₂ composite during the measurement of the cycle stability at a set strain of 95%.

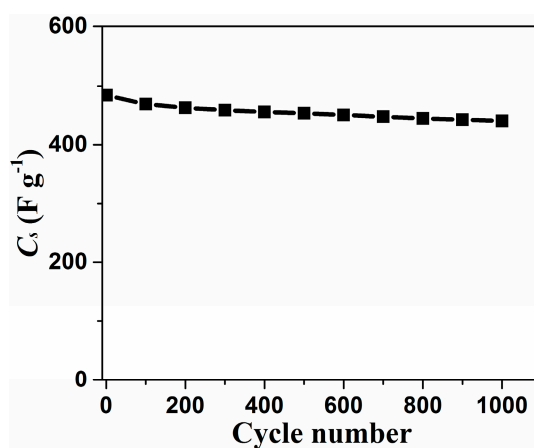


Figure S5. Cycle stability of SEGA/PEDOT/MnO₂ composite in the three-electrode system.



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