

Supplementary Information

Cross-Linked Polyacrylic-Based Hydrogel Polymer Electrolytes for Flexible Supercapacitors

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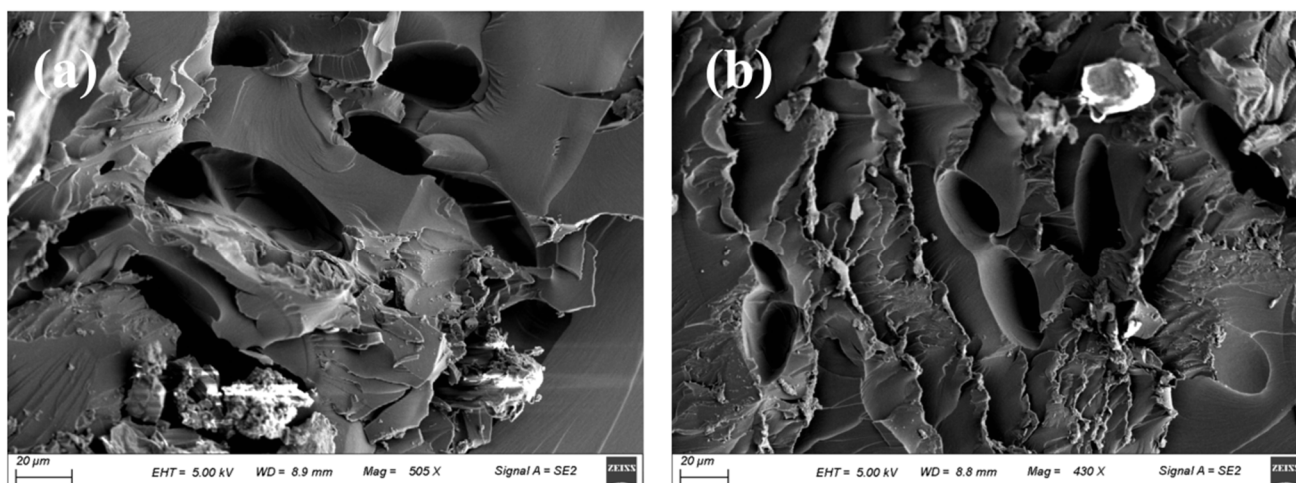


Figure S1. SEM images of the washed and freeze-dried samples: (a) P(AA-co-HAM) and (b) P(AA-co AM).

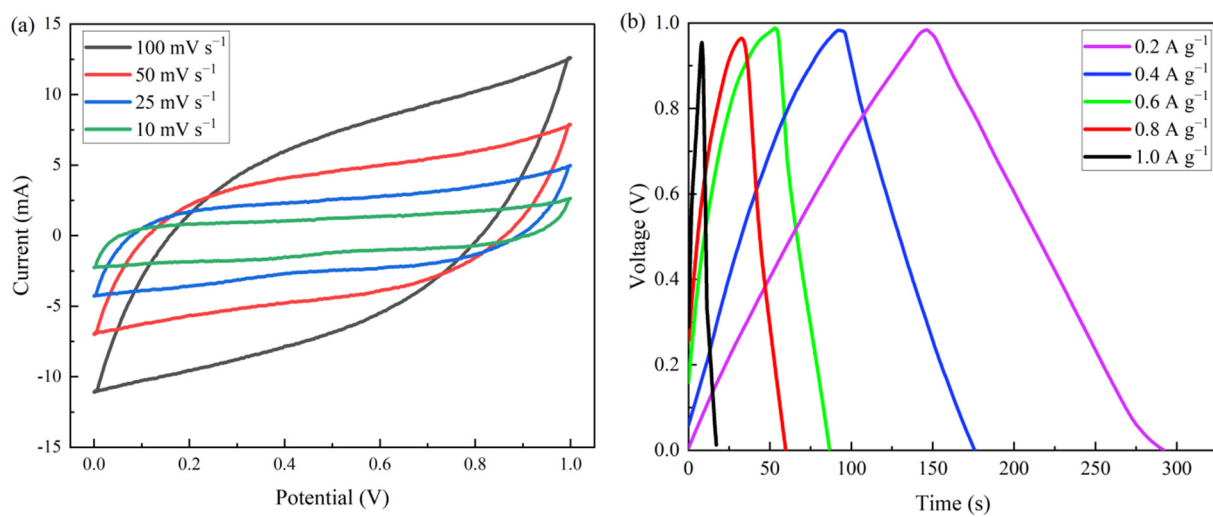


Figure S2. Electrochemical performance of AC-based symmetrical supercapacitors with P(AA-co-AM)/NaNO₃ GPE: (a) CV curves at different scan rates and (b) GCD curves at different current densities.

Table S1. Ionic conductivity comparison of our GPEs and some previously reported GPEs

Gel polymer electrolyte	Ionic conductivity (S/cm)	Reference
PVdF(HFP)	4×10^{-5}	[40]
QCS/rGO-PDA/PNIPAm	4.20×10^{-3}	[41]
P(VDF-CO-HFP)	1.62×10^{-3}	[42]
SPI-CO-EGDE	2.79×10^{-3}	[43]
P(VDF-HFP)	2.01×10^{-4}	[44]
PVA:NH ₄ CH ₃ COO	2.64×10^{-4}	[45]
PVA-LS-Cl	2.48×10^{-4}	[46]
PLMA-b-POEM	$\sim 10^{-5}$	[47]
P(AA-co-HAM)/NaNO ₃	2.00×10^{-2}	this work
P(AA-co-AM)/NaNO ₃	6.13×10^{-3}	this work