

Supporting Information

Table S1. Average electrolytes' thickness used for ionic conductivity calculations.

Electrolyte	Thickness (cm)
CMC-CS sw	0.28±0.09
CA30 sw	0.31±0.0001
CA40 sw	0.36±0.05
CA50 sw	0.35±0.05

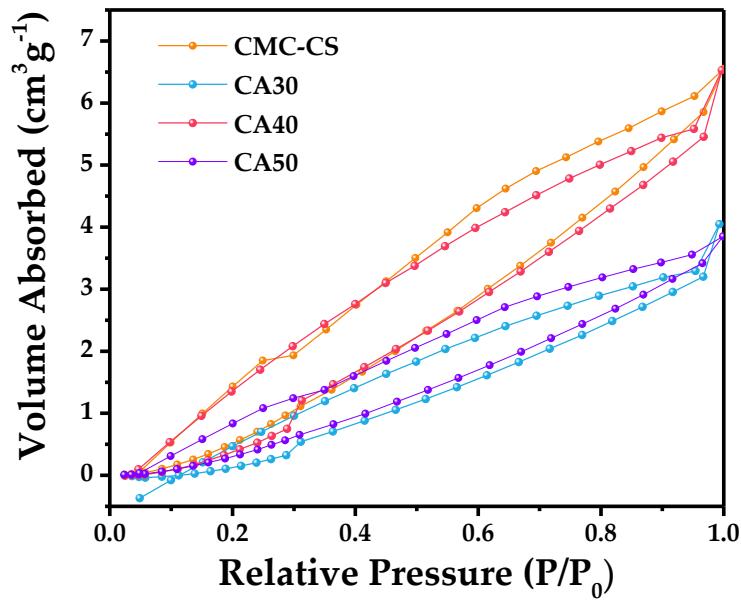


Figure S1. Nitrogen adsorption/desorption isotherms for the synthetized hydrogels.

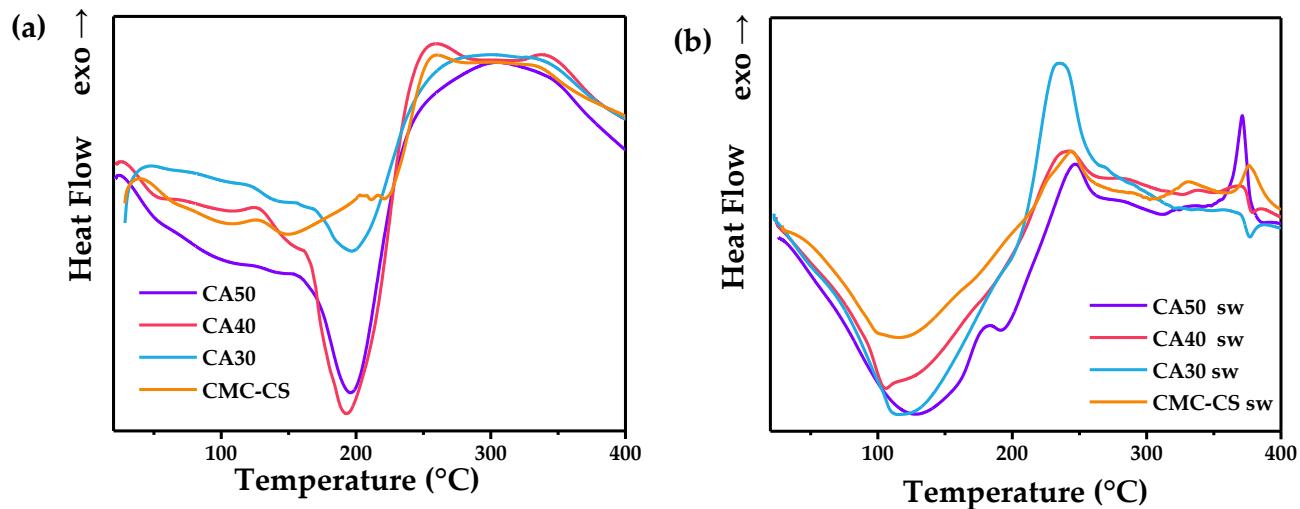


Figure S2. DSC curves for (a) dried hydrogels and (b) swollen hydrogels.