



Supplementary materials

Biomass-Derived Porous Carbon from Agar as an Anode Material for Lithium-ion Batteries

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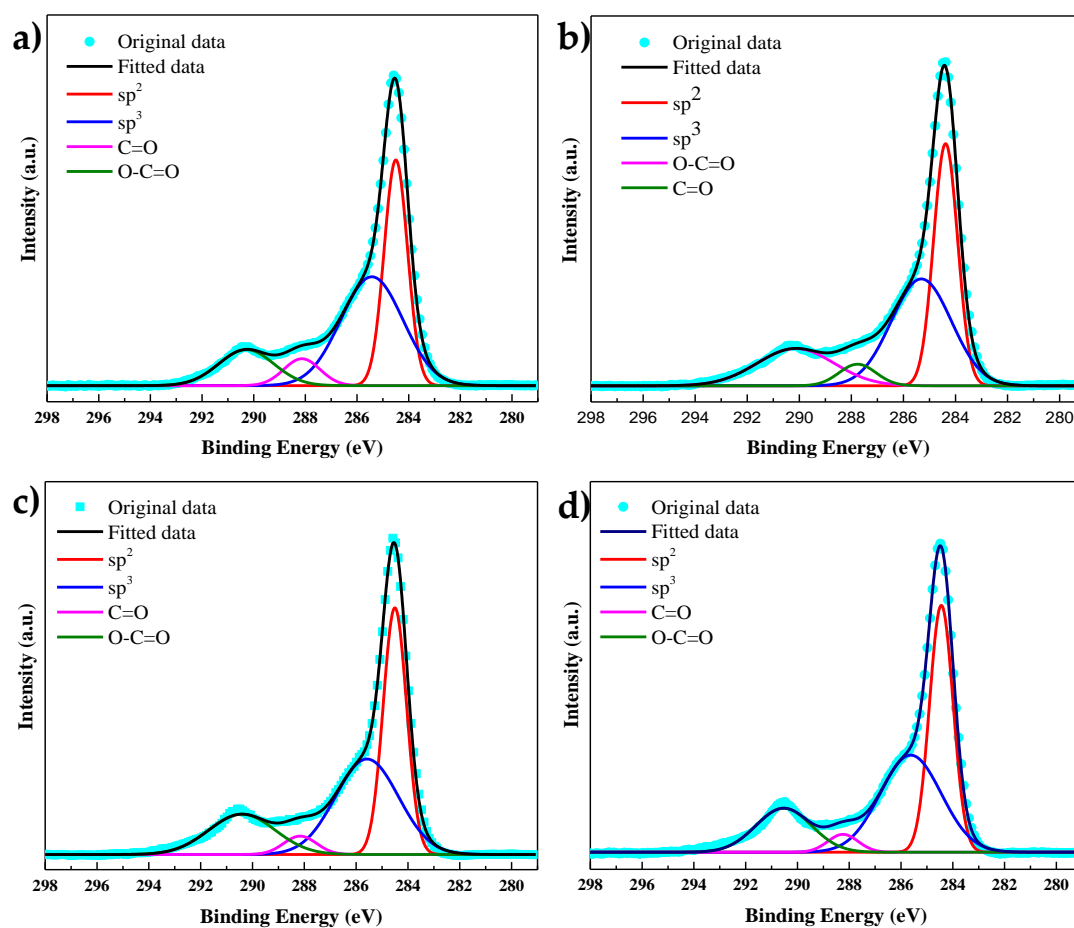


Figure S1. XPS spectra of a) KAAC; b) ZAAC; c) PAAC; d) SAAC.

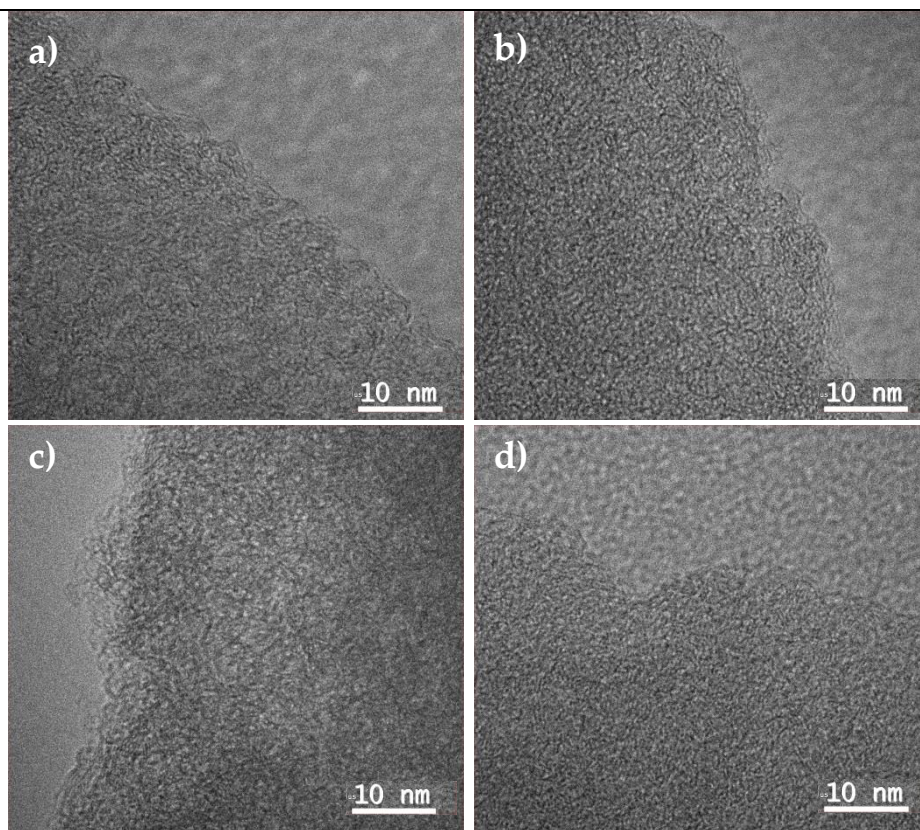


Figure S2. TEM images of ACs with four different activating agents: **a)** SAAC; **b)** PAAC; **c)** KAAC; **d)** ZAAC.

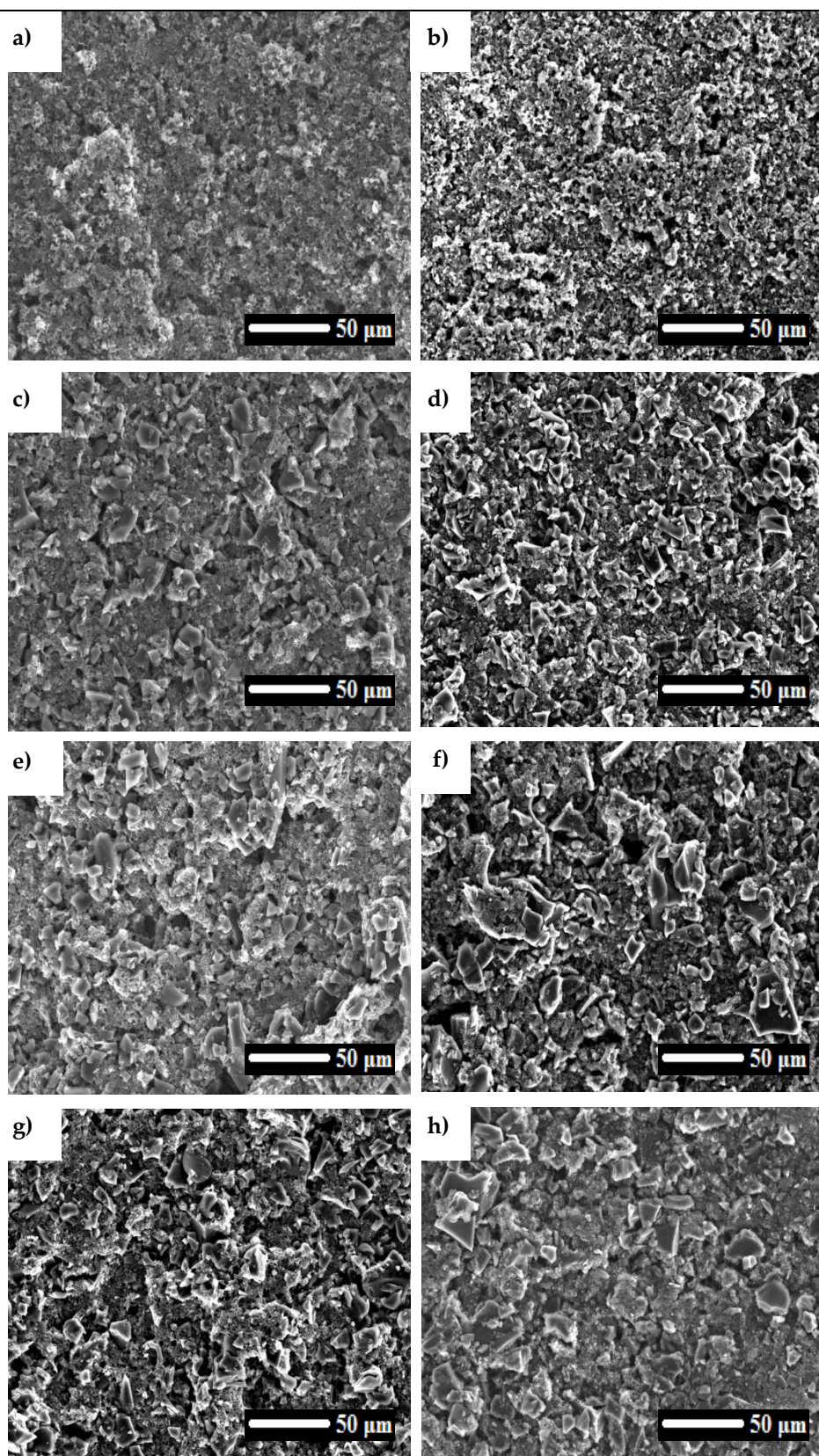


Figure S3. SEM images of pristine electrodes: a) KAAC, c) PAAC, e) ZAAC, and g) SAAC, and electrodes after 20 cycles: b) KAAC, d) PAAC, f) ZAAC, and h) SAAC.

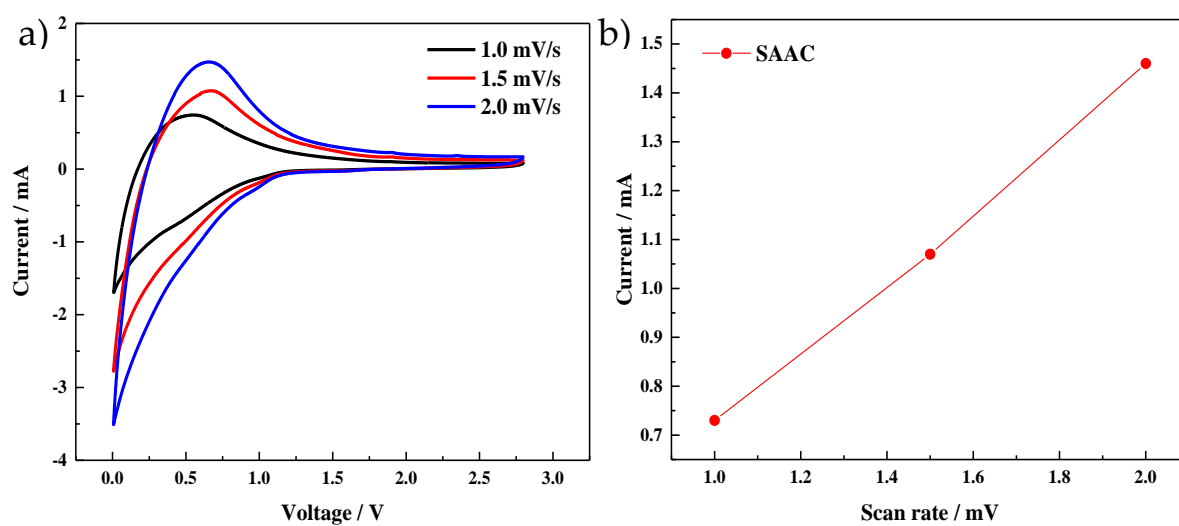


Figure S4. a) CV curves of SAAC electrodes at various scan rates of 1.0 mV s⁻¹, 1.5 mV s⁻¹, and 2.0 mV s⁻¹; b) Relationship between the redox peak current and scanning rates.