

Supporting Information for: Synthesis of Organic-Inorganic Hybrids by Miniemulsion Polymerization and their Applications for Electrochemical Energy Storage

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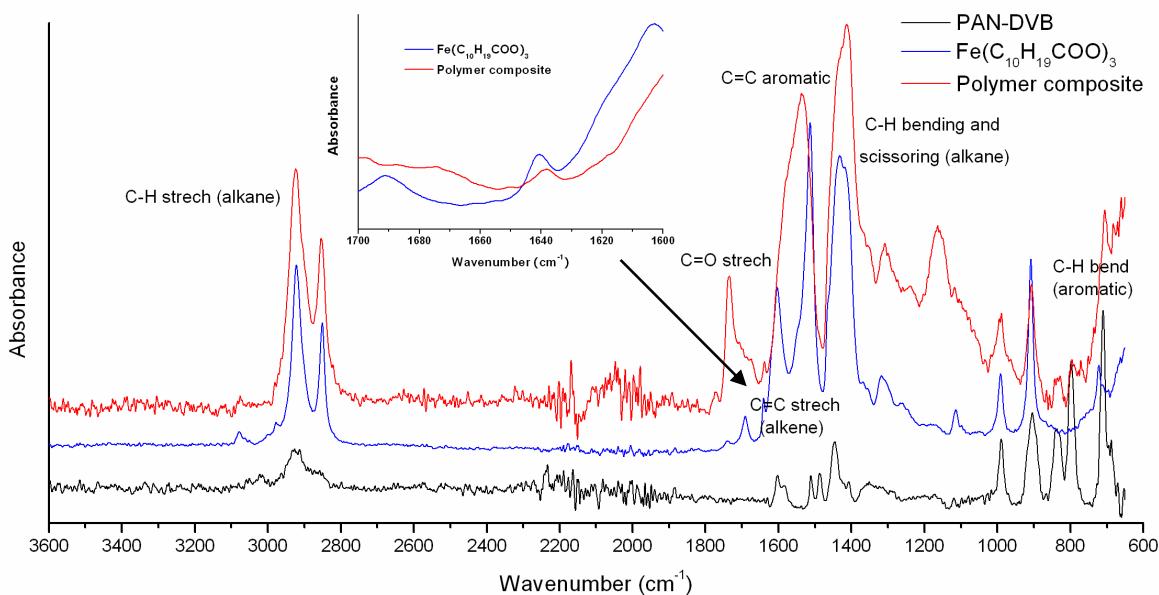


Figure S1: Infrared spectra of crosslinked PAN-DVB, Fe(C₁₀H₁₉COO)₃ and PAN-iron composite. Inset: close-up of 1600-1700 cm⁻¹, normalized using peak at 2930 cm⁻¹.

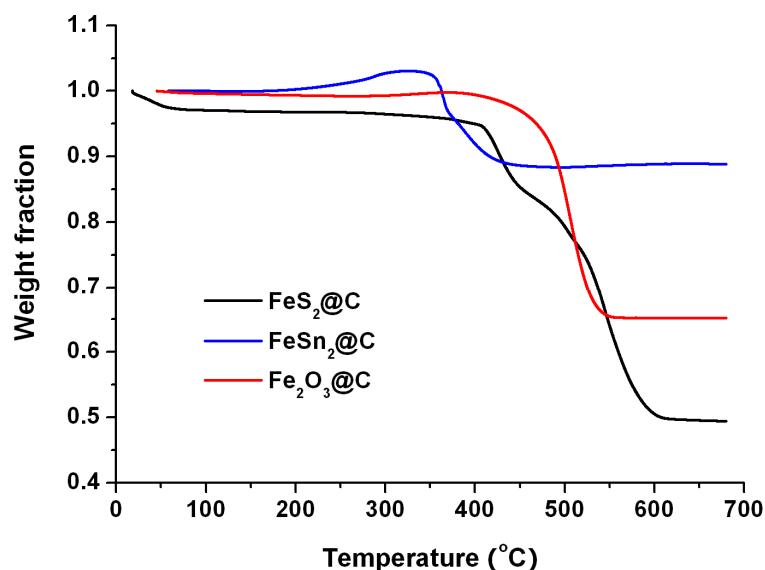


Figure S2. Oxidative TGA curves for $\text{FeS}_2@\text{C}$, $\text{FeSn}_2@\text{C}$ and $\gamma\text{-Fe}_2\text{O}_3@\text{C}$

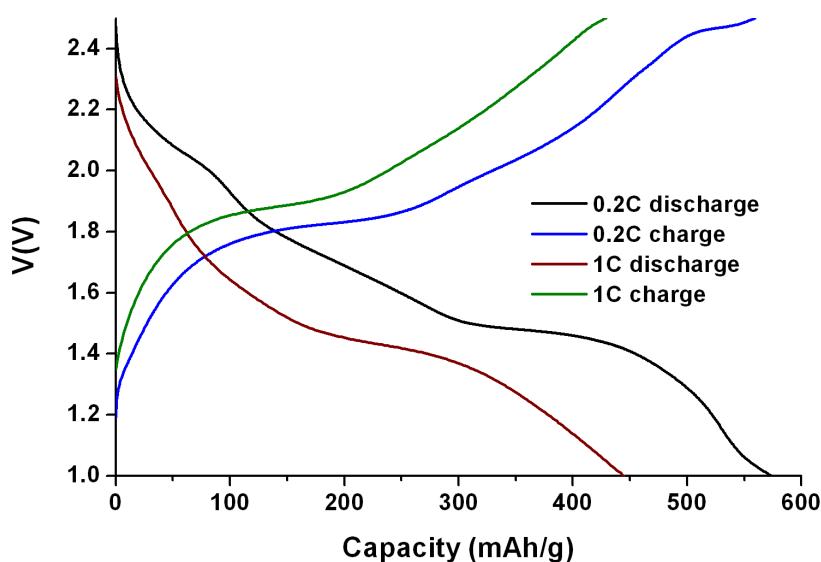


Figure S3: Voltage-capacity profiles for $\text{FeS}_2@\text{C}$ composite run at 0.2C and 1C

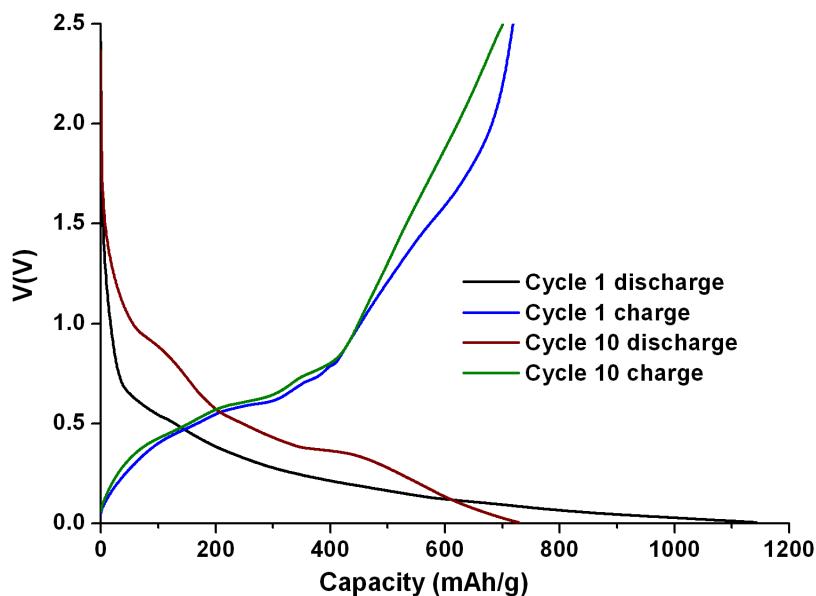


Figure S4: Voltage-capacity profiles for FeSn₂@C composite run at 0.1C.

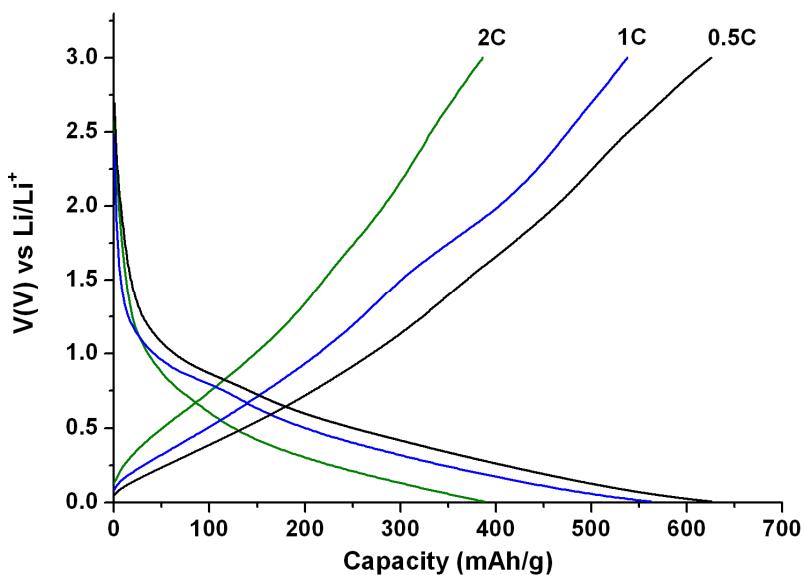


Figure S5: Voltage-capacity profiles for γ -Fe₂O₃@C composite run at 0.5C, 1C and 2C.