
Zichao Yang, Jingguo Shen, N. Jayaprakash, and Lynden A. Archer

Figure S1: Infrared spectra of crosslinked PAN-DVB, Fe(C_{10}H_{19}COO)_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 FeS$_2$@C, FeSn$_2$@C and $\gamma$-Fe$_2$O$_3$@C

Figure S3: Voltage-capacity profiles for FeS$_2$@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.