

Supporting Information:

**Fe₃N/Fe₃O₄ Hetero-Nanocrystals Embed into Porous Carbon Fibers for Enhanced
Lithium Storage**

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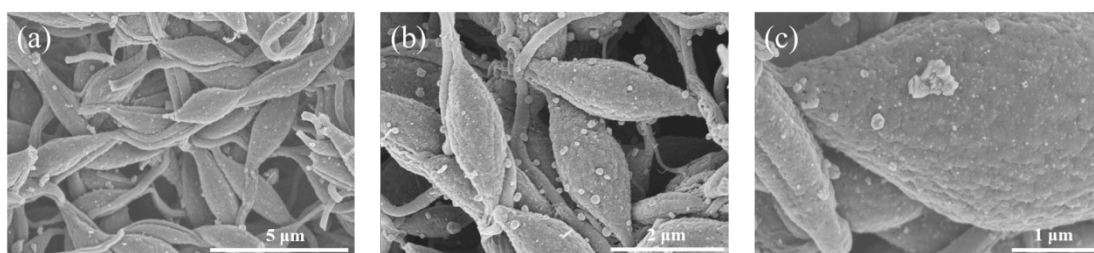


Fig. S1 (a-c) SEM images of nonporous $\text{Fe}_3\text{N}/\text{Fe}_3\text{O}_4@\text{C}$ fibers.

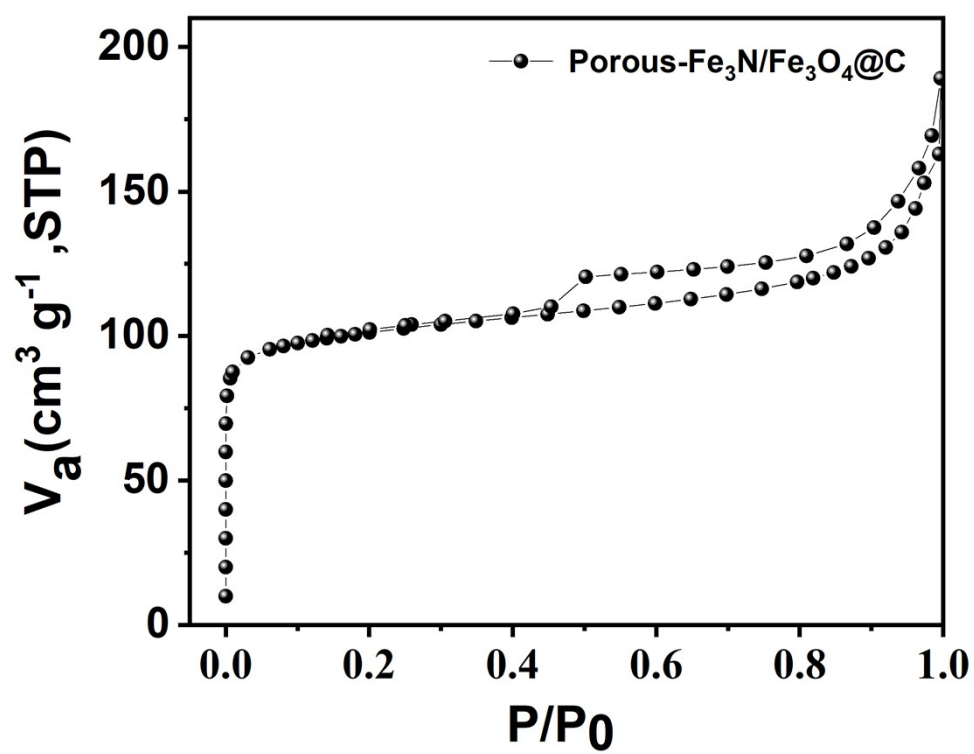


Fig. S2 N_2 adsorption-desorption isotherm of porous $\text{Fe}_3\text{N}/\text{Fe}_3\text{O}_4@\text{C}$ fibers.

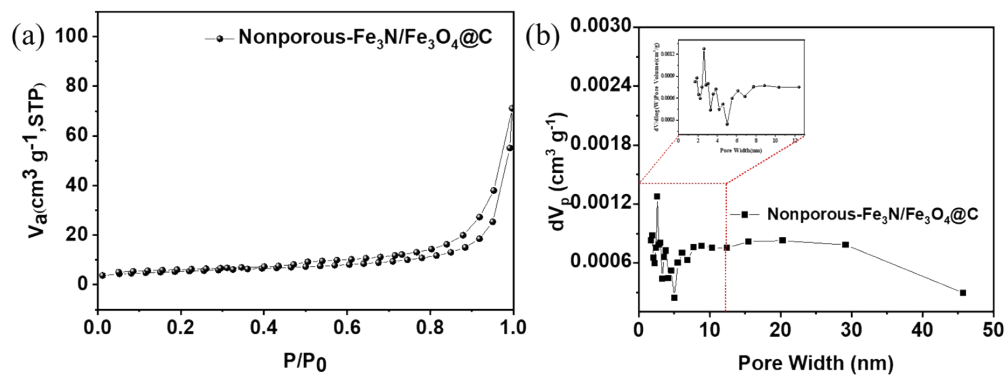


Fig. S3. (a) N_2 adsorption-desorption isotherms and (b) the pore size distribution of the nonporous $Fe_3N/Fe_3O_4@C$ fibers.

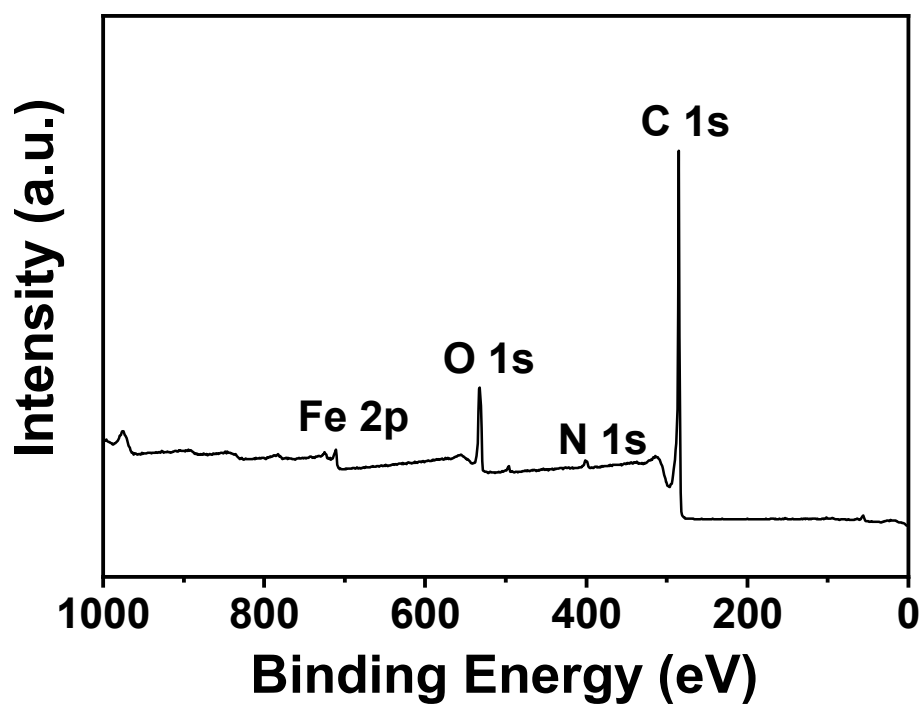


Fig. S4 The full XPS survey of porous $\text{Fe}_3\text{N}/\text{Fe}_3\text{O}_4@\text{C}$ fibers.

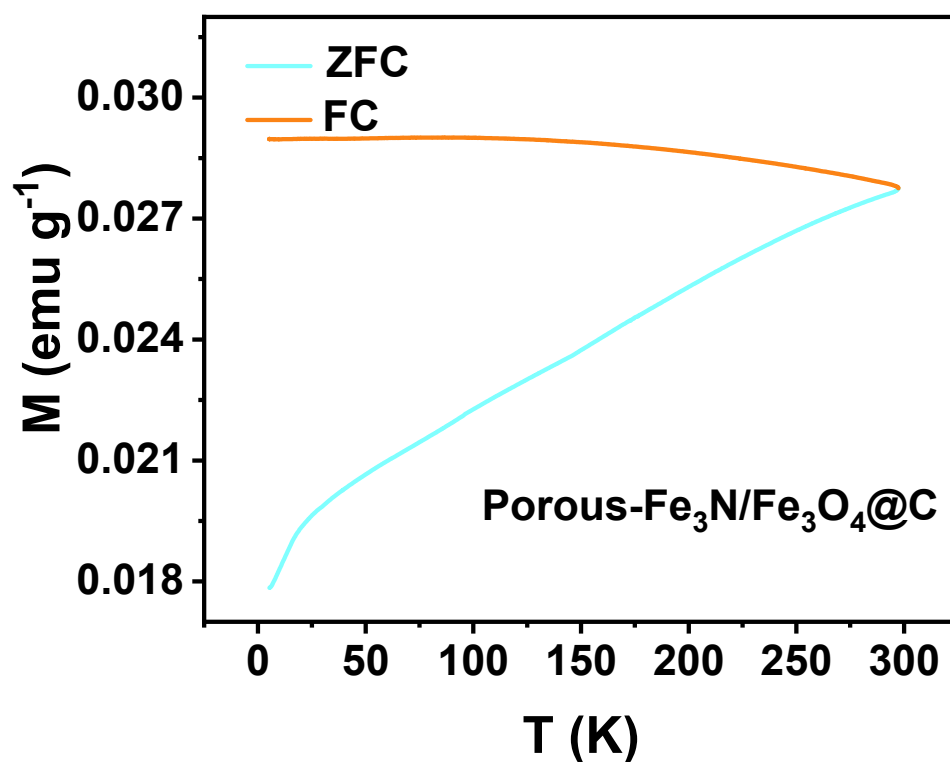


Fig. S5 Magnetic measurements: Zero-field-cooled/ field-cooled porous $\text{Fe}_3\text{N}/\text{Fe}_3\text{O}_4@\text{C}$ fibers at a magnetic field of 10 Oe.