

Electronic Supplementary Material

Hierarchical Manganese Oxide/Carbon Nanocomposites for Supercapacitor Electrodes

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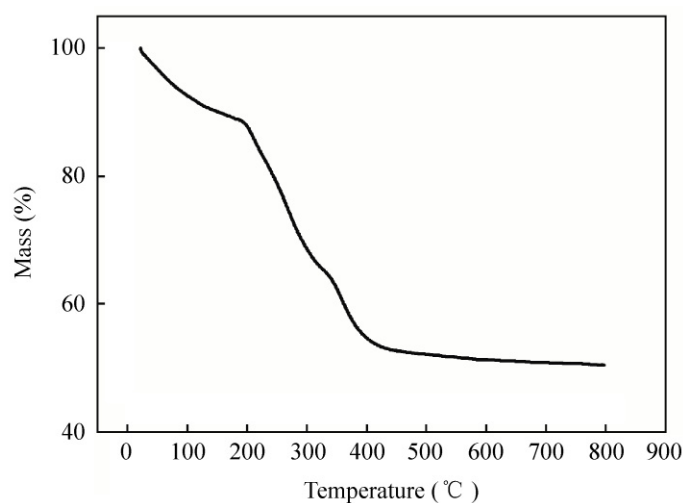


Figure S-1 Thermogravimetric analysis (TGA) curves of the MnO₂/carbon-10 nanocomposite with air flow of 100 mL/min and a heating rate of 10 °C/min

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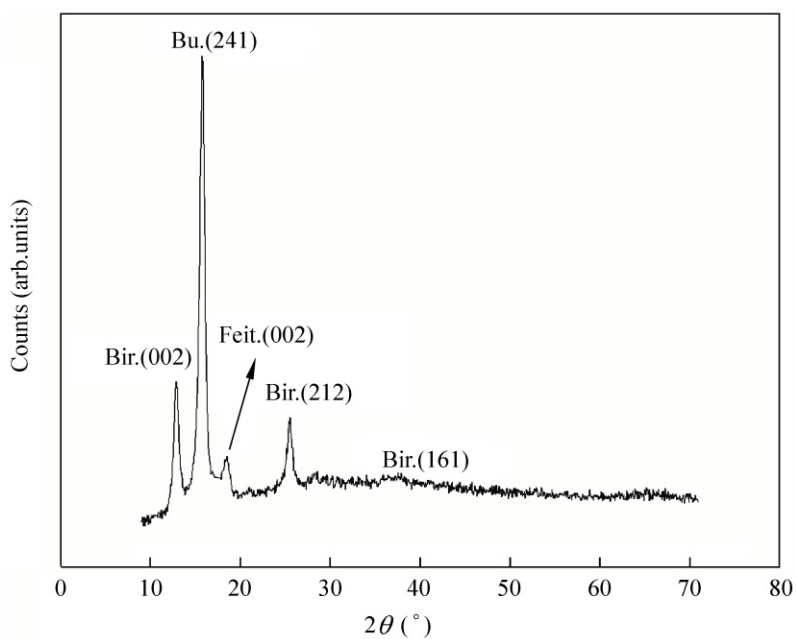


Figure S-2 X-ray diffraction (XRD) curve of the MnO_2 /carbon-120 nanocomposite measured between 10° and 70° with a scan rate of $5^\circ/\text{s}$. (Bir.: birnessite, Bu.: busserite, Feit.: β - MnOOH [1, 2])

References

- [1] Feng, Q.; Yanagisawa, K.; Yamasaki, N. Synthesis of birnessite-type potassium manganese oxide. *J. Mater. Sci. Lett.* **1997**, *16*, 110–112.
- [2] Luo, J.; Huang, A.; Park, S. H.; Suib, S. L.; O'Young, C. Crystallization of sodium β -birnessite and accompanied phase transformation. *Chem. Mater.* **1998**, *10*, 1561–1568.