Electronic Supplementary Material (ESI) for Journal of Materials Chemistry


# Polyaniline/$MnO_2$ coaxial nanocable with hierarchical structure for high-performance supercapacitors

Hao Jiang [a], Jan Ma [b], Chunzhong Li *, [a]

[a] Key Laboratory for Ultrafine Materials of Ministry of Education, School of Materials Science and Engineering, East China University of Science & Technology, Shanghai 200237, China

[b] School of Materials Science and Engineering, Nanyang Technological University, Singapore 639798, Singapore

* Electronic mail: czli@ecust.edu.cn (Prof. Chunzhong Li)

## Supplementary Figures

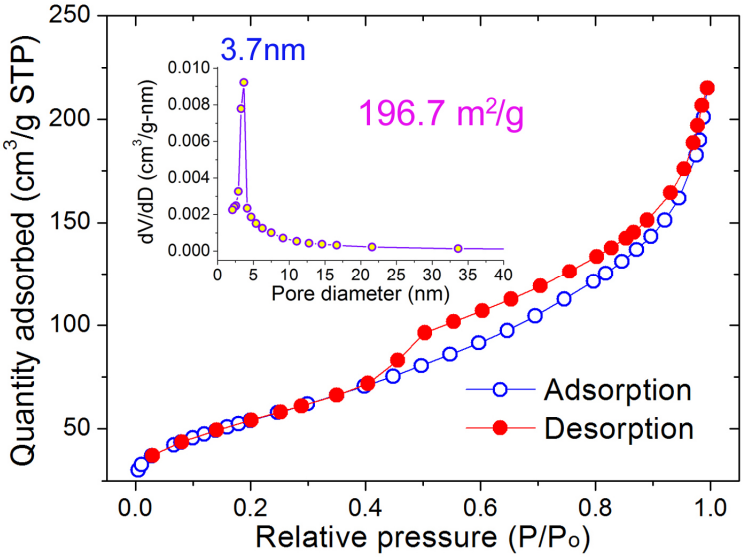


**Figure S1** Nitrogen adsorption and desorption isotherm and its corresponding pore size distribution curves of the optimized PANI/$MnO_2$ coaxial nanocables.

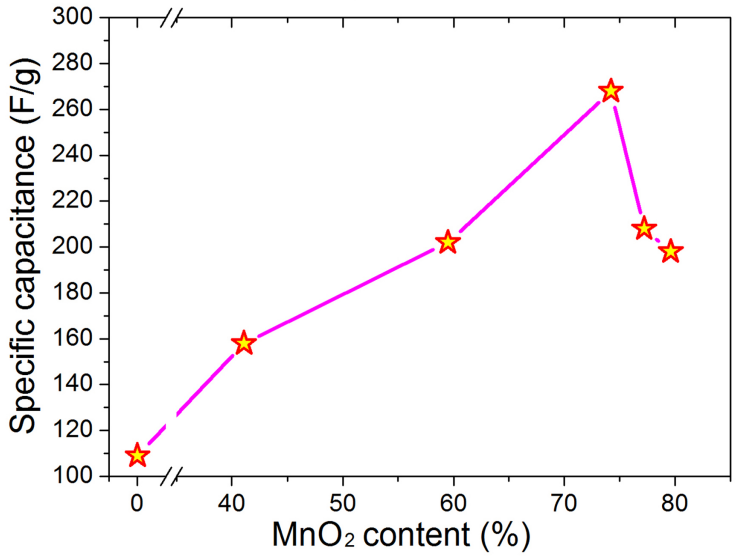


**Figure S2** The relationship between the specific capacitance of the PANI/$MnO_2$ coaxial nanocables and the corresponding $MnO_2$ content.

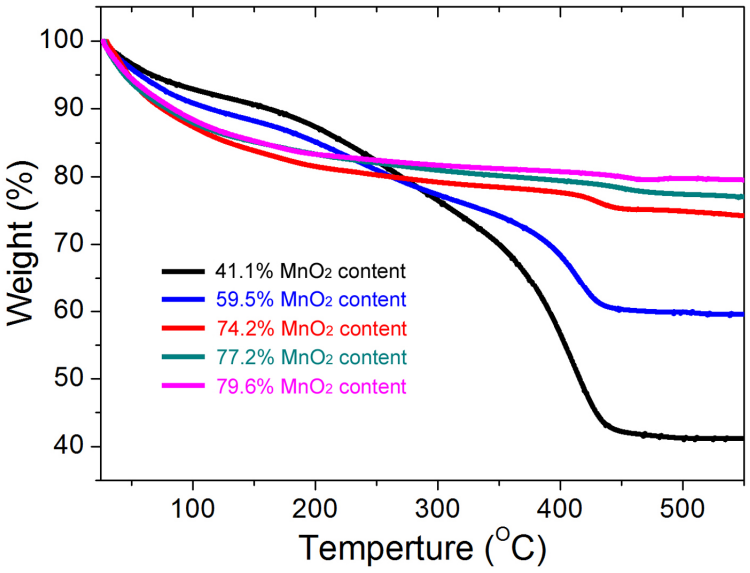


**Figure S3** The TG curves of the PANI/$MnO_2$ coaxial nanocables with different $MnO_2$ content.

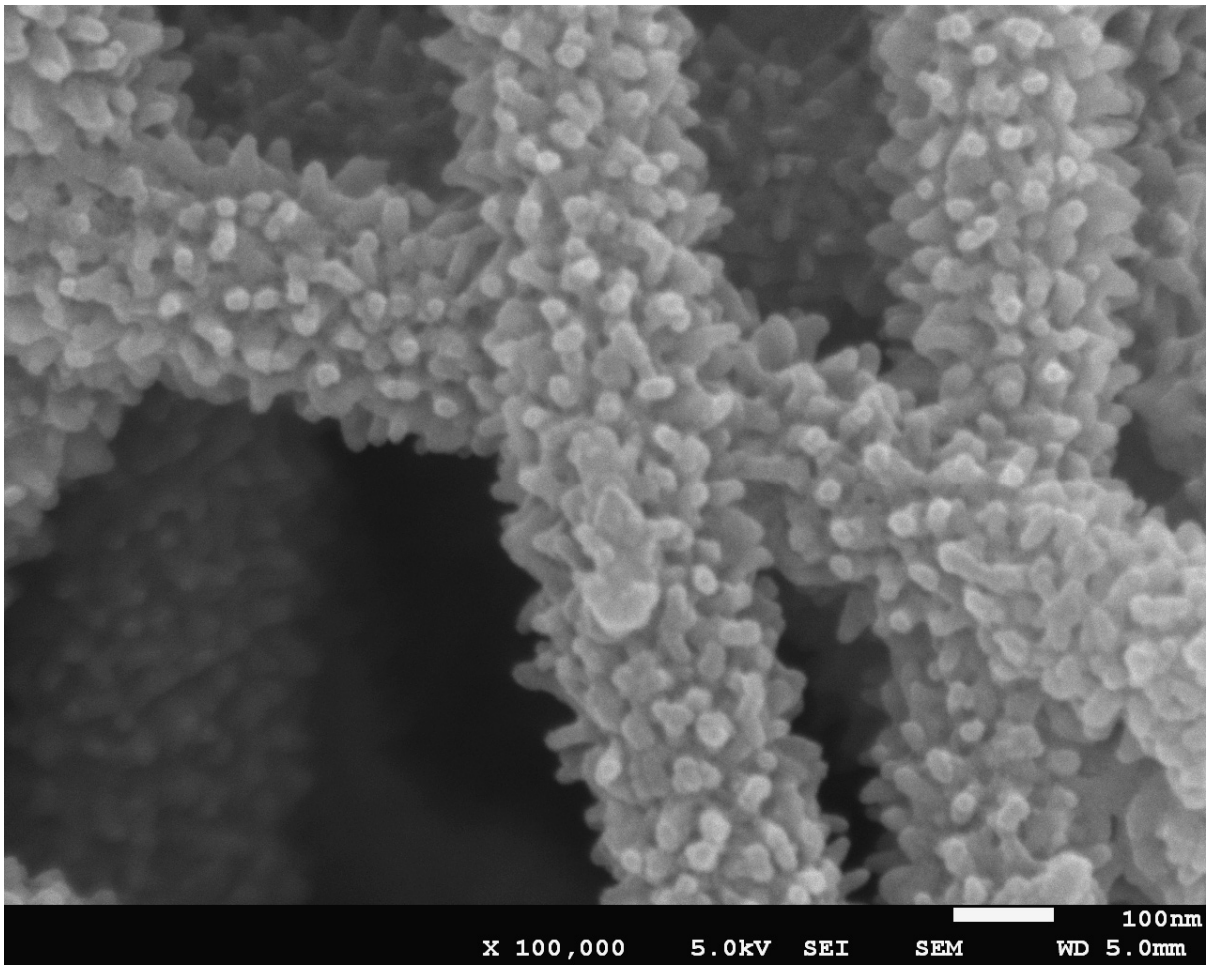


**Figure S4** High magnification SEM image of the neat PANI nanofibers.

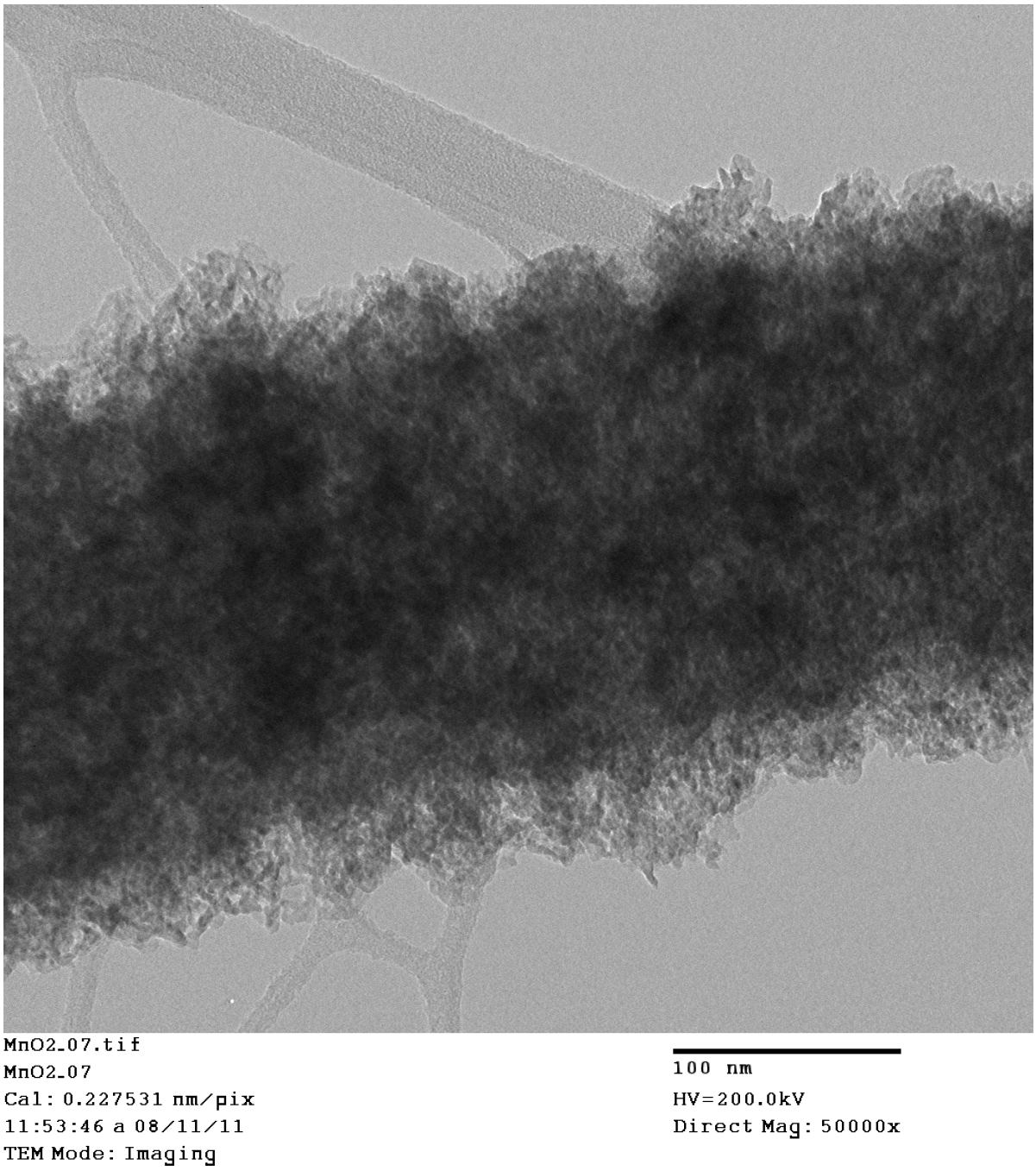


**Figure S5** High magnification TEM image of the PANI/$MnO_2$ coaxial nanocables with 74.2wt% $MnO_2$ content.