

Supporting Information

Hierarchical ZnO@MnO₂@PPy Ternary Core-Shell Nanorod Arrays: An Efficient Integration of Active Materials for Energy Storage

Wenqin Ma, Qiangqiang Shi, Honghong Nan, Qingqing Hu, Xiaoting Zheng, Baoyou Geng, Xiaojun Zhang*

Key Laboratory for Functional Molecular Solids of the Education Ministry of China, College of Chemistry and Materials Science, Center for Nano Science and Technology, Anhui Normal University, Wuhu, 241000, P R China.

Fax: +86-553-3869302; Tel: +86-553-3937135

E-mail: xjzhang@mail.ahnu.edu.cn

Figure:

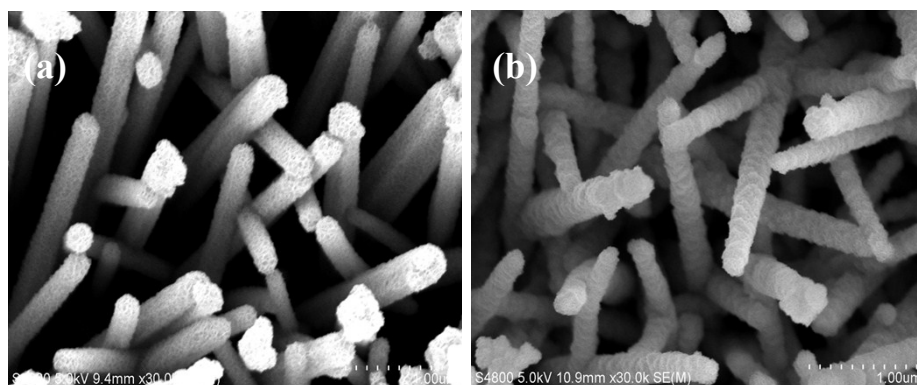


Figure S1 Typical FESEM images at high magnifications of (a) ZnO@MnO₂ nanorod arrays; (b) ZnO@MnO₂@PPy nanorod arrays supported on Zn foil.

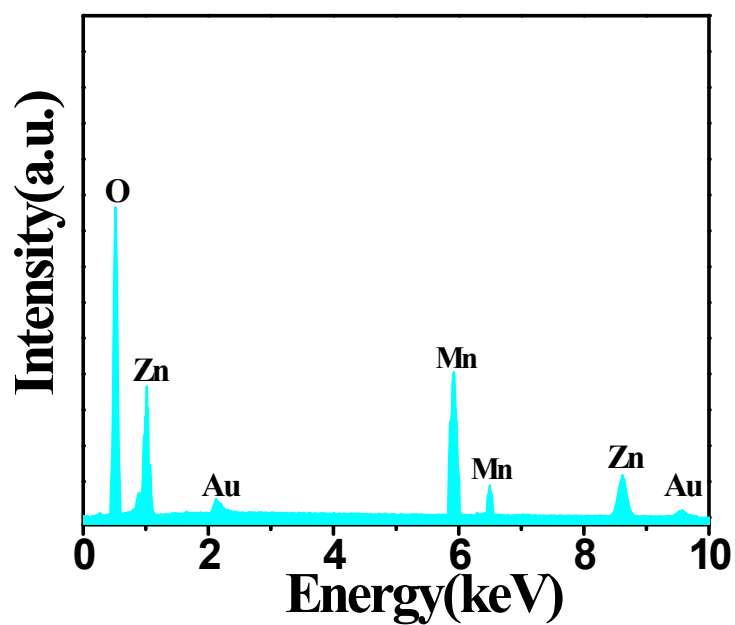


Figure S2 The EDS of the ZnO@MnO₂ nanorod arrays.

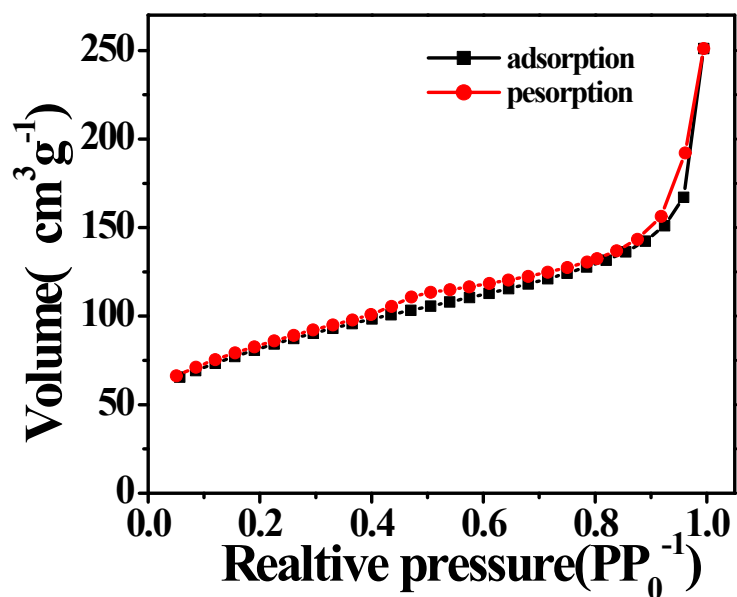


Figure S3 N₂ adsorption-desorption isotherm of the ZnO@MnO₂@PPy ternary core-shell nanocomposites.

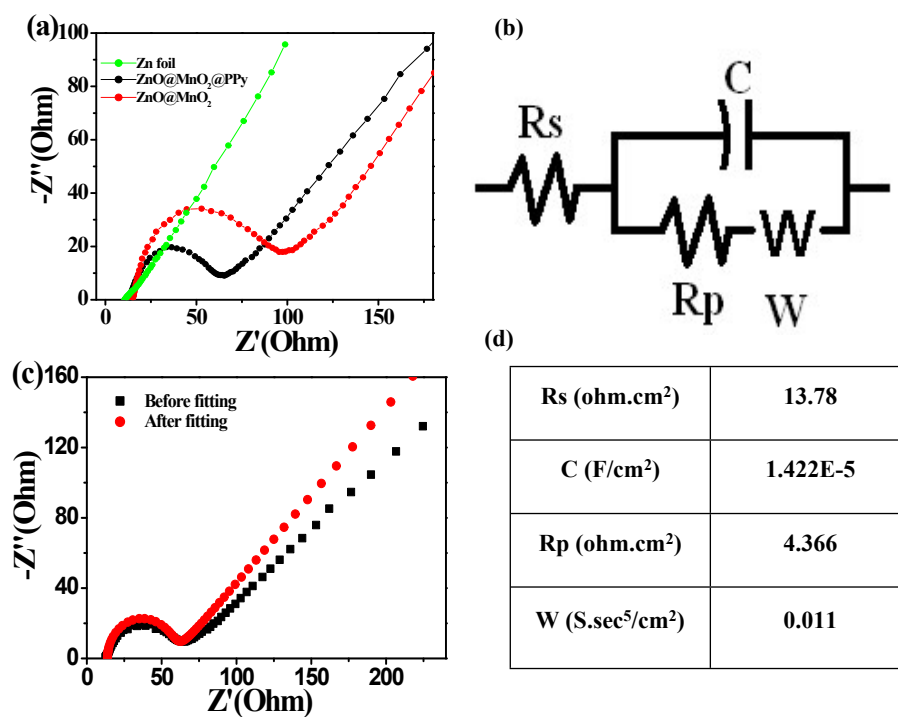


Figure S4 (a) Impedance Nyquist plots of the ZnO@MnO₂@PPy nanorod arrays, ZnO@MnO₂ nanorod arrays and Zn foil.(b)The electrical equivalent circuit. (c)The EIS fitting data of the ZnO@MnO₂@PPy ternary core-shell nanorod arrays.