

Supplementary information

A Novel Electroactive λ -MnO₂/PPy/PSS Core-Shell Nanorods Coated Electrode for Selective Recovery of Lithium Ions with Ultra-Low Concentration

Xiao Du^{a,b}, Guoqing Guan^{b,c*}, Xiumin Li^c, Ajay D Jagadale^b, Xuli Ma^{a,b}, Zhongde
Wang^a, Xiaogang Hao^{a*}, Abuliti Abudula^c

^aDepartment of Chemical Engineering, Taiyuan University of Technology, Taiyuan
030024, China. E-mail: xghao@tyut.edu.cn

^bNorth Japan Research Institute for Sustainable Energy (NJRISE), Hirosaki
University, Matsubara, Aomori 030-0813, Japan. E-mail: guan@hirosaki-u.ac.jp

^cGraduate School of Science and Technology, Hirosaki University, 1-Bunkyocho,
Hirosaki 036-8560, Japan

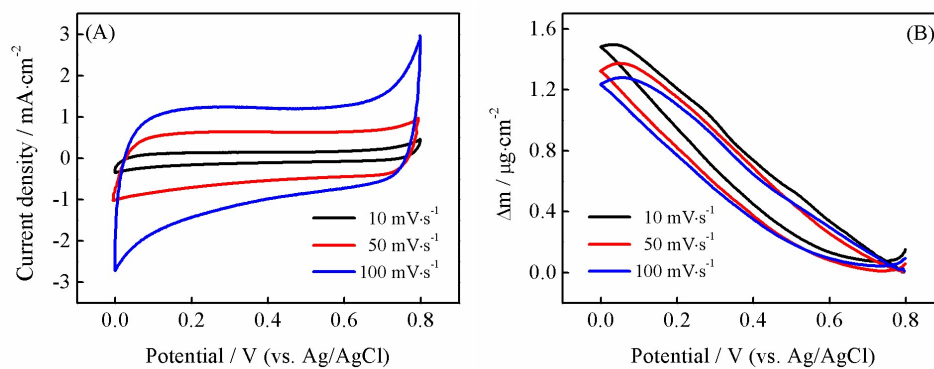


Figure S1. CV (A) and weight change (B) of λ -MnO₂/PPy/PSS hybrid film in 0.5 mol L⁻¹ LiCl solution at different scan rates of 10, 50 and 100 mV s⁻¹.

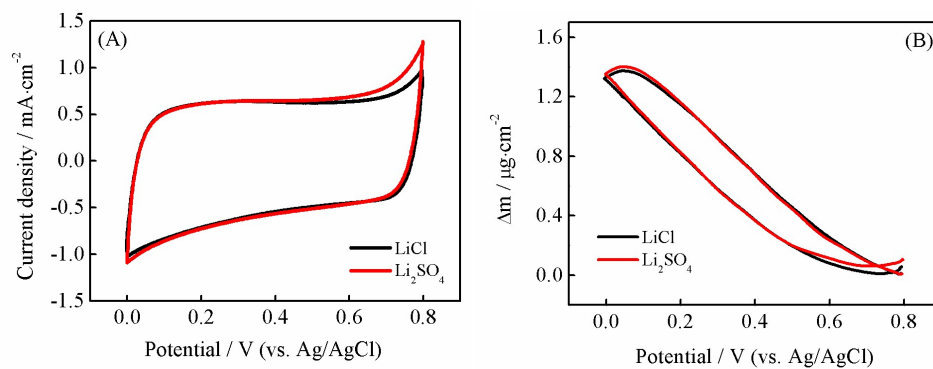


Figure S2. CV (A) and weight change (B) of λ -MnO₂/PPy/PSS hybrid film in 0.5 mol L⁻¹ LiCl and 0.25 mol L⁻¹ Li₂SO₄ solutions at a scan rate of 50 mV s⁻¹.