

**One-pot hydrothermal synthesis of novel 3D starfish-like δ -MnO₂
nanosheets on carbon fiber paper for high-performance
supercapacitor**

Bin Xu,^a Lin Yu,^{*a} Ming Sun,^a Fei Ye,^a Yuanhong Zhong,^a Gao Cheng,^a Hui Wang^a and Yuliang Mai^{ab}

^aKey Laboratory of Clean Chemistry Technology of Guangdong Regular Higher Education Institutions,
School of Chemical Engineering and Light Industry, Guangdong University of Technology, Guangzhou
510006, P. R. China. E-mail: gych@gdut.edu.cn

^bPetrochemical Research Institute of Guangdong Province, Guangzhou 510006, P. R. China

^cGuangdong Research Institute of Petrochemical and Fine Chemical Engineering, Guangdong
Provincial Key Laboratory of Industrial Surfactant, Guangzhou 510006, P. R. China

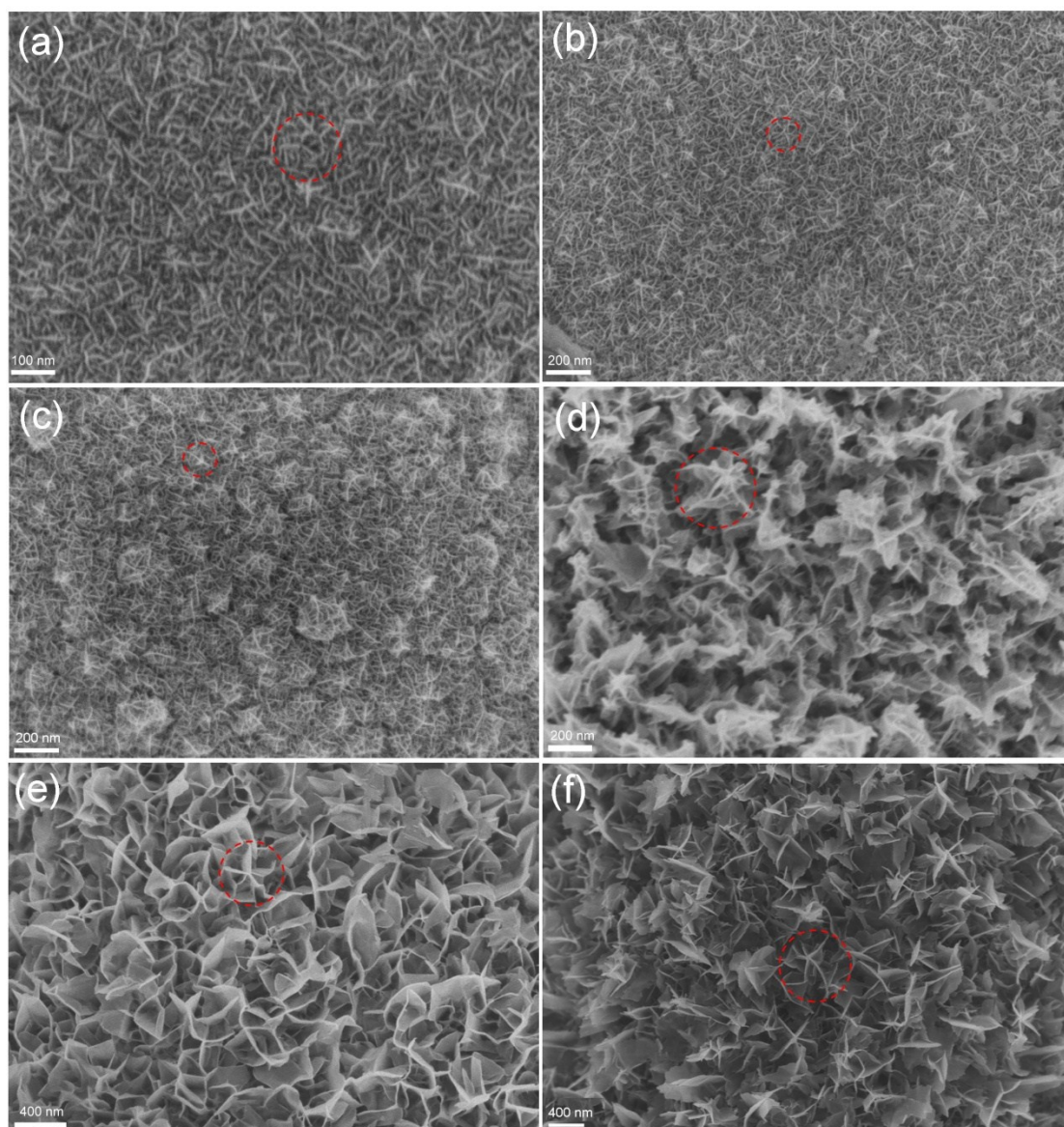


Fig. S1 FESEM images of the starfish-like δ -MnO₂ with different hydrothermal time at 120 °C; (a) 1 h, (b) 3 h, (c) 6 h, (d) 12 h, (e) 18 h, (f) 24 h.