## Design and Synthesis of 3D Hierarchical NiCo<sub>2</sub>S<sub>4</sub>@MnO<sub>2</sub> Core-Shell Nanosheet Arrays for High-Performance Pseudocapacitors

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**Figure S1.** TEM image of NiCo<sub>2</sub>O<sub>4</sub> nanosheet.



Figure S2. CV curve of NiCo<sub>2</sub>S<sub>4</sub>@MnO<sub>2</sub> electrode, pure and treated Ni foams electrode.



Figure S3. (a) CV curves and (b) CD curves of the  $NiCo_2S_4$  (a) MnO<sub>2</sub> electrode materials.



Figure S4. EIS spectra of the  $NiCo_2S_4$  and  $NiCo_2S_4$ @MnO<sub>2</sub> electrode.



Figure S5. SEM image of the (a)  $NiCo_2S_4@MnO_2$  and (b)  $NiCo_2S_4$  electrode after cycling.