Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary Information

High-performance nickel manganese ferrite/oxidized graphene composites as flexible and binder-free anodes for Li-ion batteries

Zailei Zhang,*[a] Qiangqiang Tan,*[a] Ziyi Zhong,[b] and Fabing Su*[a]

[a] *State Key Laboratory of Multiphase Complex Systems, Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China 100190,*

[b] *Institute of Chemical Engineering and Sciences, A*star, 1 Pesek Road, Jurong Island, Singapore 627833*

*Corresponding authors. E-mail address: zhangzl@ipe.ac.cn (Z. Zhang); qtan@ipe.ac.cn (Q. Tan); fbsu@ipe.ac.cn (F. Su), Tel.: +86-10-82544850, Fax: +86-10-82544851.

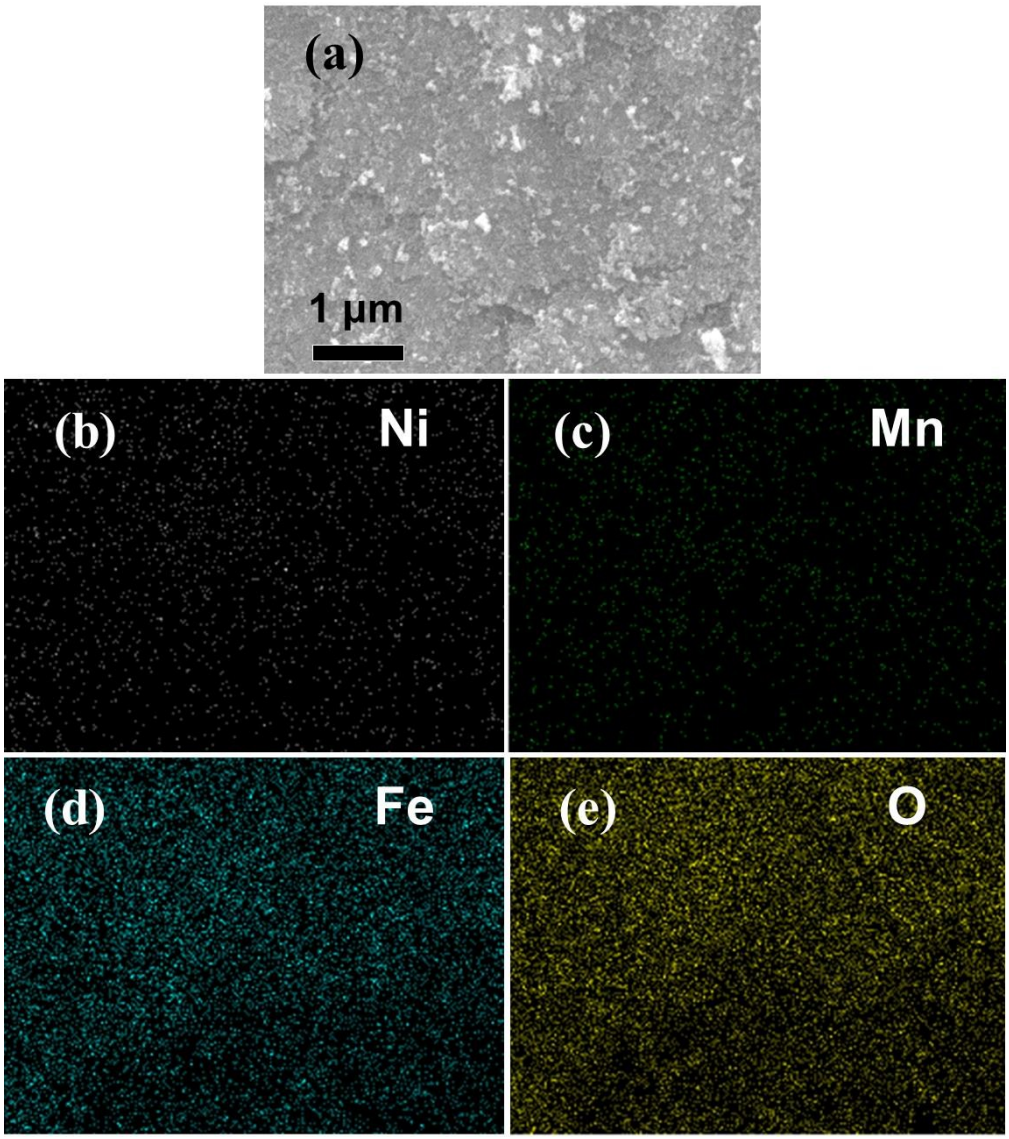

Fig. S1 SEM image of NMFO nanoparticles (a), and corresponding elemental mapping images of Ni (b), Mn (c), Fe (d), and O (e) for NMFO nanoparticles.

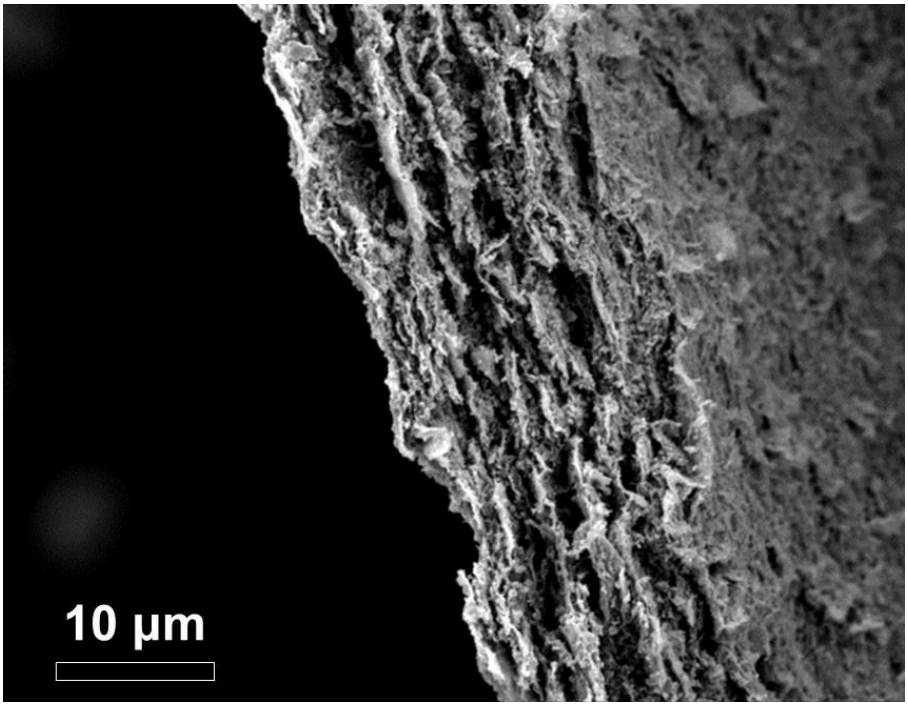

Fig. S2 Cross-sectional SEM image of free-standing NMFO/OGP film without alternate adding more OGP.

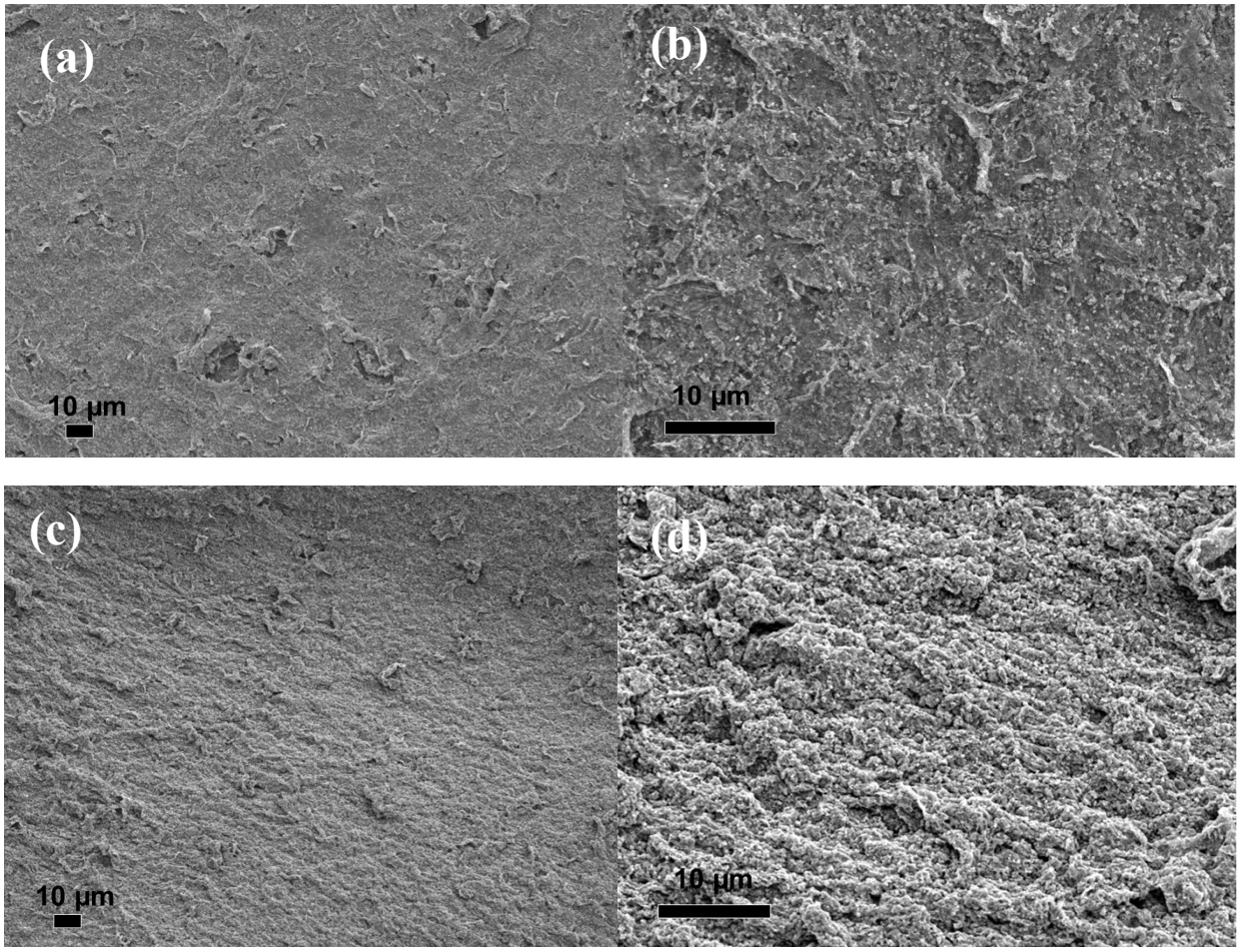

Fig. S3 SEM images of the electrode disks containing charged free-standing NMFO/OGP film (a and b), and NMFO/OGP coated on polypropylene microporous film (c and d) after 100 discharge–charge cycles with washing.