

Supporting Materials

Structurally Confined Ultrafine NiO Nanoparticles on Graphene as Highly Efficient and Durable Electrode Material for Supercapacitors

Yi Cheng^a, Jian Pan^a, Martin Saunders^b, Shikui Yao^a, Pei Kang Shen^c, Huanting
Wang^d, San Ping Jiang^{a*}

^aFuels and Energy Technology Institute & Department of Chemical Engineering,
Curtin University, Perth, WA 6102, Australia

S.Jiang@curtin.edu.au (SP Jiang)

^bCentre for Microscopy, Characterisation and Analysis (CMCA), The University of
Western Australia, Clawley, WA 6009, Australia

^cCollaborative Innovation Center of Sustainable Energy Materials, Guangxi
University, Nanning 530004, China

Yi Cheng^a, Jian Pan^a, Martin Saunders^b, Shikui Yao^a, Pei Kang Shen^c,
San Ping Jiang^{a*}

Figures.

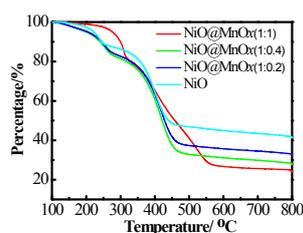


Figure S1. TGA curves of NiO and NiO@MnO_x

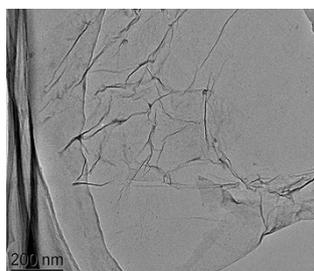


Figure S2. The typical TEM images of as received graphene sheet.

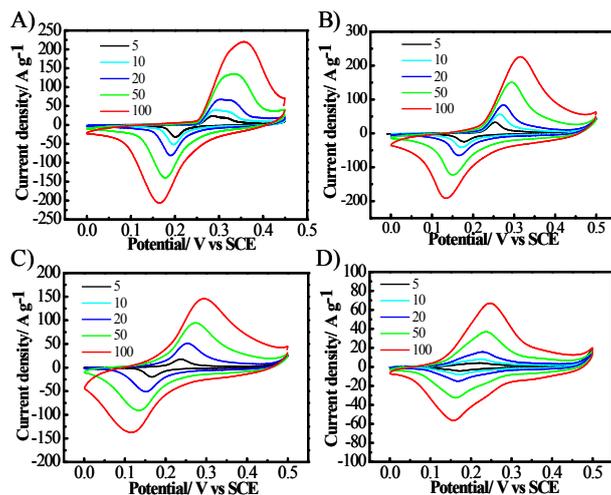


Figure S3. CV curves at different scan rate of A) NiO, B) NiO@MnO_x(1:0.2), C) NiO@MnO_x(1:0.4), and D) NiO@MnO_x(1:1).

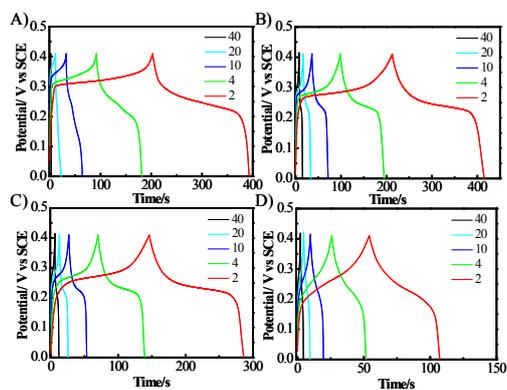


Figure S4. Charge and discharge curves at different current densities of A) NiO, B) NiO@MnO_x(1:0.2), C) NiO@MnO_x(1:0.4), and D) NiO@MnO_x(1:1).