

Defect-free graphene metal oxide composites: formed by lithium mediated exfoliation of graphite

Ming-Yao Cheng*, Yun-Sheng Ye, Ju-Hsiang Cheng, You-Jern Yeh, Bo-Han Chen,
and Bing-Joe Hwang*

*Department of Chemical Engineering, National Taiwan University of Science and Technology,
Taipei, Taiwan. E-mail:bjh@mail.ntust.edu.tw*

E-Mail: mycheng@mail.ntust.edu.tw; bjh@mail.ntust.edu.tw

Supplementary Information



Figure S1. Photo image of Li-intercalated graphite electrode (3 inch in diameter)

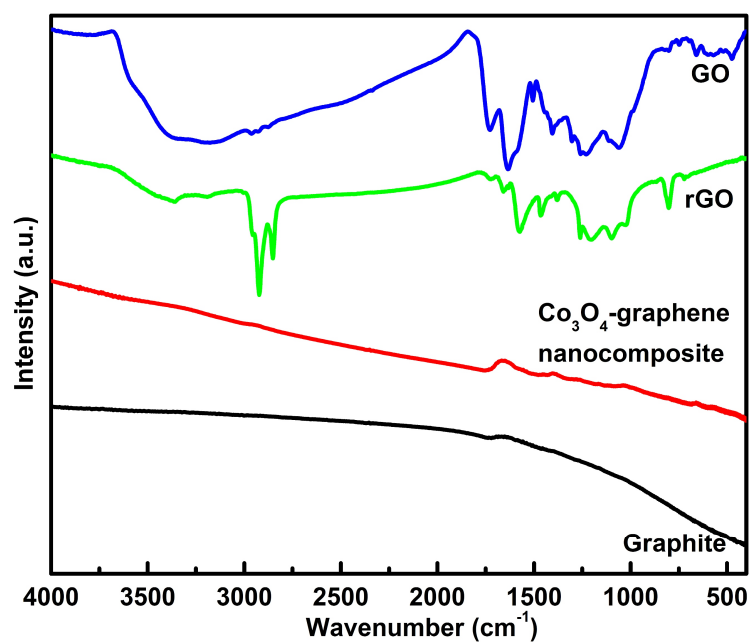


Figure S2 FTIR spectra of graphite, Co₃O₄-graphene nanocomposites, graphene oxide and reduced graphene oxide

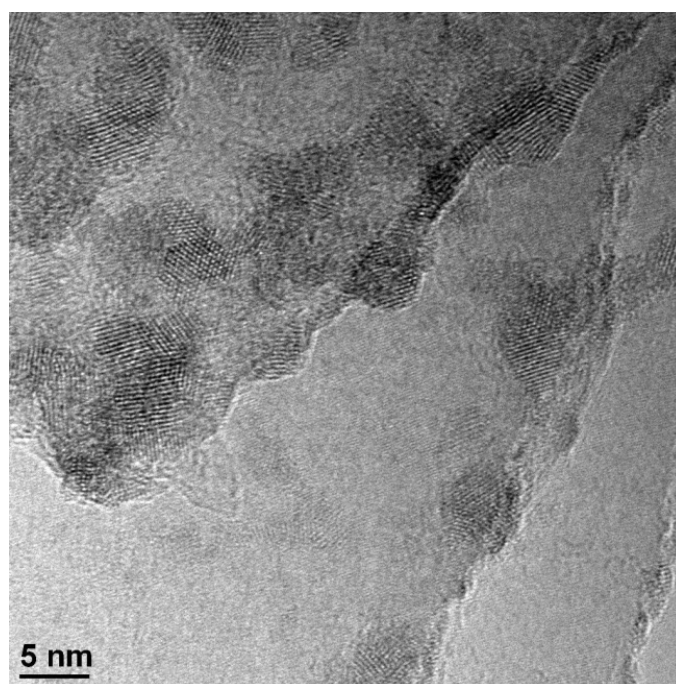


Figure S3 HETEM image for the nano-sized Co₃O₄-graphene composite synthesized with EtOH-based process

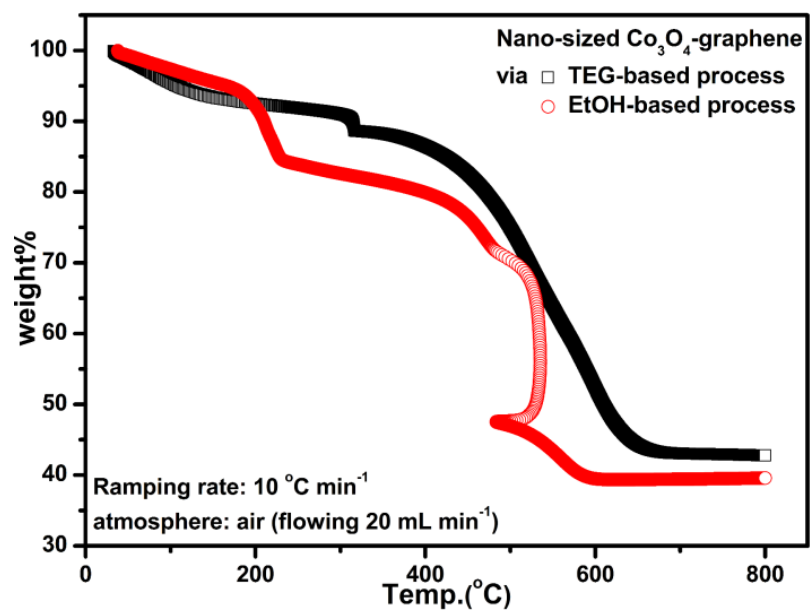


Figure S4 TGA of the nano-sized Co_3O_4 -graphene composite synthesized with TEG- and EtOH-based process.