

ELECTRONIC SUPPLEMENTARY INFORMATION

Enhanced Shielding Effectiveness in Nanohybrids of Graphene Derivatives with Fe₃O₄ and ε-Fe₃N in the X-Band Microwave Region

Rohith Vinod .K¹, P. Saravanan,² Suresh Kumar .T .R³, R. Radha¹, M. Balasubramaniam¹ and S. Balakumar ^{1,*}

¹National Centre for Nanoscience and Nanotechnology, University of Madras, Chennai - 600025, India.

²Defence Metallurgical Research Laboratory, Hyderabad - 500 058, India.

³Department of Electrical Communication Engineering, Indian Institute of Science, Bangalore - 560012, India.

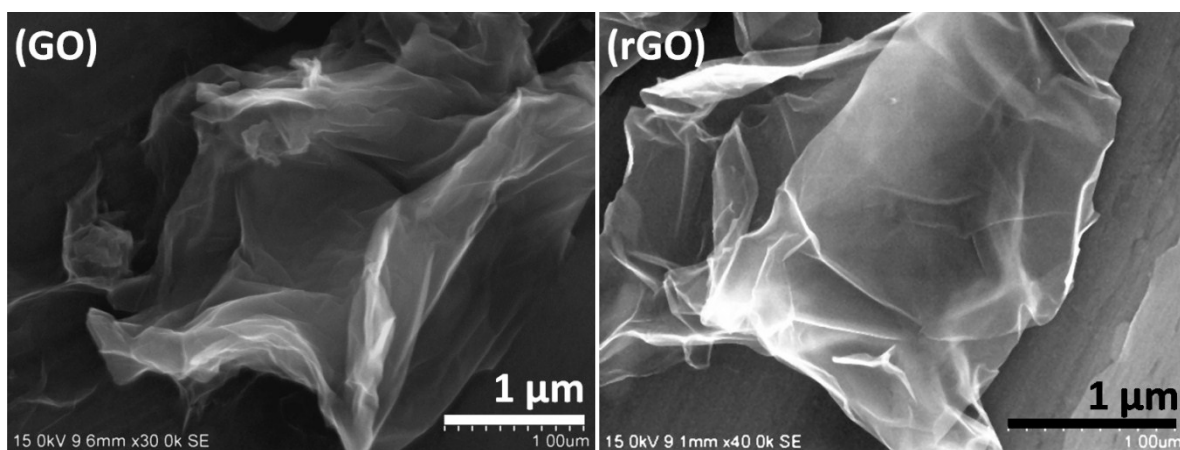


Figure S1. FESEM images of as prepared graphene oxide (GO) and reduced graphene oxide (rGO)

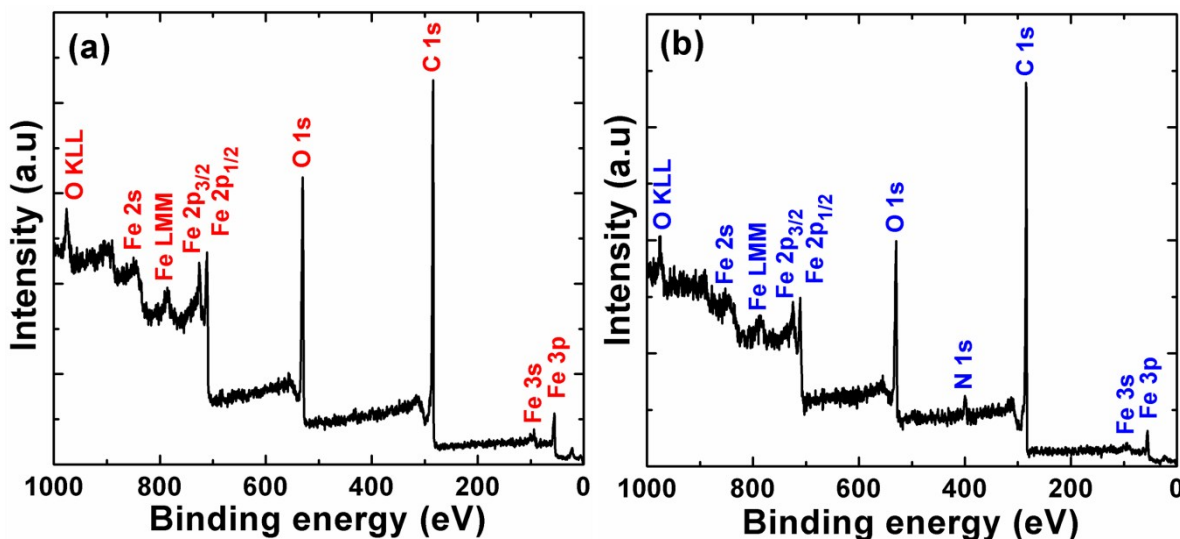


Figure S2. XPS survey spectra of (a)rGO:IO and (b) NrGO:IN nanocomposites.

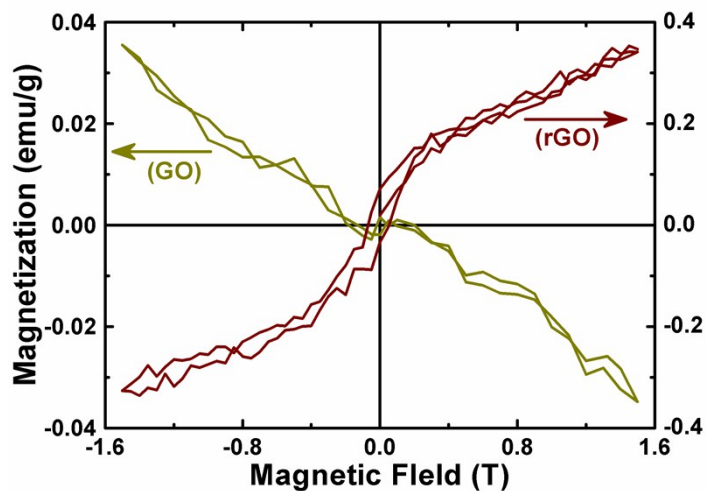


Figure S3. Room temperature M-H curves of pure GO and rGO.

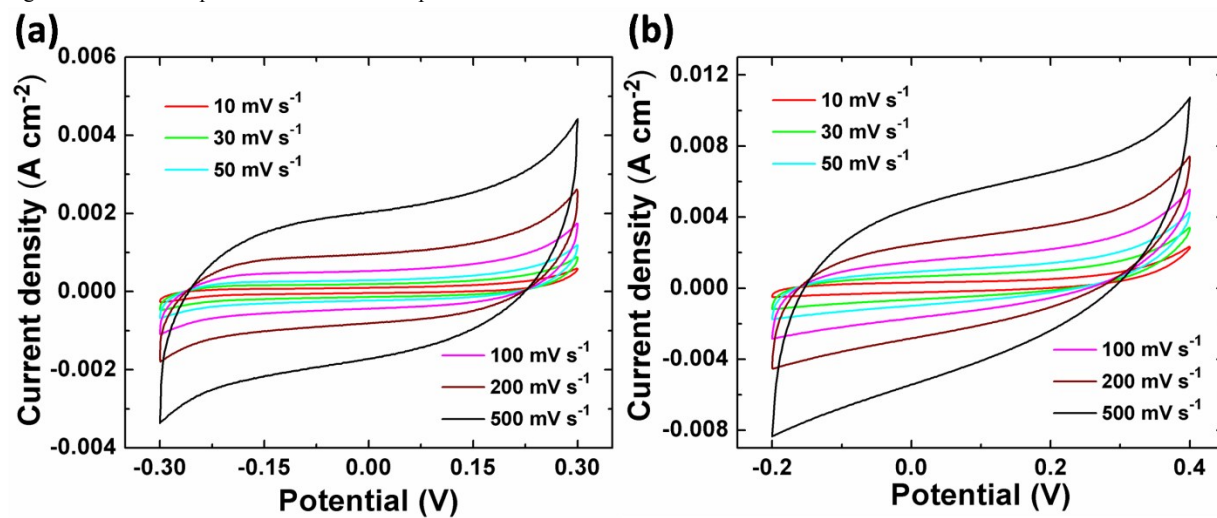


Figure S4. CV curve of (a) rGO:IO and (b) NrGO:IN nanocomposites with different scan rate.