Supporting information

Iron encapsulated nitrogen and sulfur co-doped few layer graphene as non-precious ORR catalyst for PEMFC application

B. P. Vinayan*, Thomas Diemant, R. Jürgen Behm, and S. Ramaprabhu*

a Helmholtz Institute Ulm for Electrochemical Energy Storage (HIU), Helmholtzstr. 11, 89081 Ulm, Germany

b Institute of Surface Chemistry and Catalysis, Ulm University, Albert-Einstein-Allee 47, 89081 Ulm, Germany

c Alternative Energy and Nanotechnology Laboratory (AENL), Nano Functional Materials Technology Centre (NFMTC), Department of Physics, Indian Institute of Technology Madras, Chennai, Tamil Nadu, 600036, India.

Phone: +91-44-22574862, Fax: +91-44-22570509/22574852

*Email for corresponding authors:

ramp@iitm.ac.in

vinayan.parambath@kit.edu
Fig. S1: Fe precursor containing PANI coated PSS-GO.

Fig. S2: HRTEM image of NSG sheets within Fe-NSG sample.
Fig. S3: PEMFC single cell performance of commercial Pt/C as cathode and anode electrocatalyst at the temperature 80 °C and 20 psi back pressure.