Supporting Information

Reduced graphene oxide-gold nanorods composite material stabilized in

silicate sol-gel matrix for nitric oxide sensor

Subramaniam Jayabal, Perumal Viswanathan and Ramasamy Ramaraj*

School of Chemistry Centre for Photoelectrochemistry Madurai Kamaraj University Madurai-625021, India. *Corresponding author. Tel.: +91- 452-2459084; E-mail: ramarajr@yahoo.com

Contents

- 1. Fig. S1. Diffuse reflectance spectra of GC/RGO/Au–TPDT NRs at different conditions.
- 2. Fig. S2. SAED patterns of GC/RGO/Au–TPDT NRs.
- 3. Fig. S3. EDS of GC/RGO/Au–TPDT NRs.
- 4. Fig. S4. Cyclic voltammograms for bare GC and GC/RGO/Au–TPDT NRs.
- 5. Fig. S5. Cyclic voltammograms for 10 μ M NO at GC/RGO/Au–TPDT NRs modified electrode at different scan rates and the corresponding calibration plot.
- Fig. S6. Amperometric *i*-*t* curve response time for 10 nM NO addition to RGO/Au-TPDT NRs modified electrode.



Fig. S1. Diffuse reflectance spectra of RGO/Au–TPDT NRs in wet (a) and dry (b) conditions.



Fig. S2. SAED pattern of RGO/Au-TPDT NRs



Fig. S3. EDS of RGO/Au–TPDT NRs.



Fig. S4. Cyclic voltammograms recorded for bare GC (a) and GC/RGO/Au–TPDT NRs (b) electrodes in 0.1 M H_2SO_4 at a scan rate of 50 mV s⁻¹.



Fig. S5. Cyclic voltammograms obtained for 10 μ M NO at GC/RGO/Au–TPDT NRs modified electrode in 0.1 M PBS (pH 7.2) at different scan rates of 10 (a), 25 (b), 50 (c), 75 (d), 100 (e), 150 (f) and 200 mV s⁻¹ (g). Inset: Corresponding calibration plot.



Fig. S6. Amperometric *i*–*t* curve response time for 10 nM NO addition to RGO/Au–TPDT NRs modified electrode.