Supporting Information

Enhancement of Functional Surface and Molecular Dynamics at Pt-rGO by Spacer 1,6-Hexanediamine for Precise Detection of Biomolecues: Uric acid as a Specimen

Mohammad Razaul Karim[a*], Mohammad Jayed,[a] Md. Zakariya Rahman Laskar,[a] Md Murshed Bhuyan,[b] Md. Saidul Islam[c], Shinya Hayami[c], Mohammed M. Rahman[d]

[a]Department of Chemistry, School of Physical Sciences, Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh

[b]Department Mechanical Engineering, Gachon University, South Korea

[c]Department of Chemistry, GSST, Kumamoto University, Japan.

[d]Department of Chemistry, King Abdulaziz University, Saudi Arabia

Corresponding author: Tel: +8801750200968. E-mail: krazaul@yahoo.com
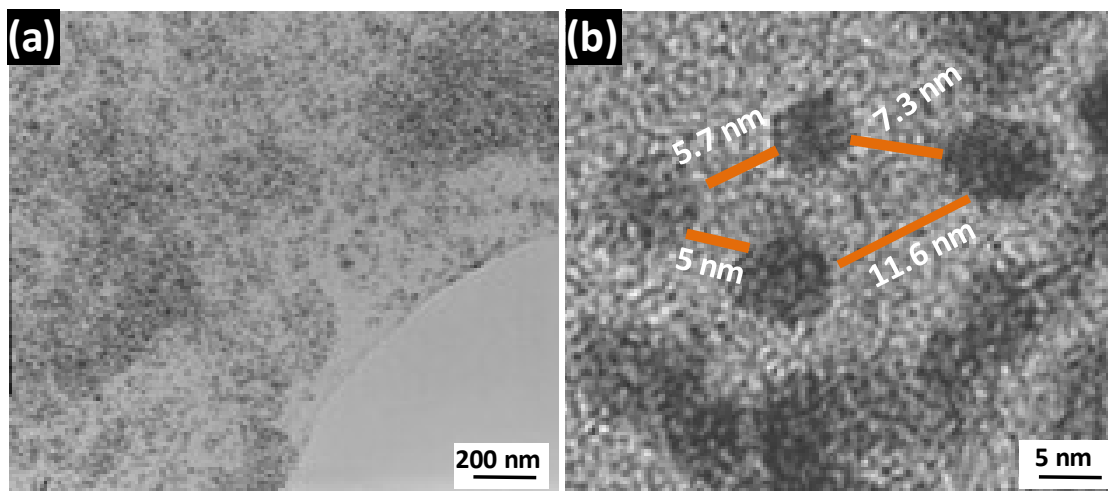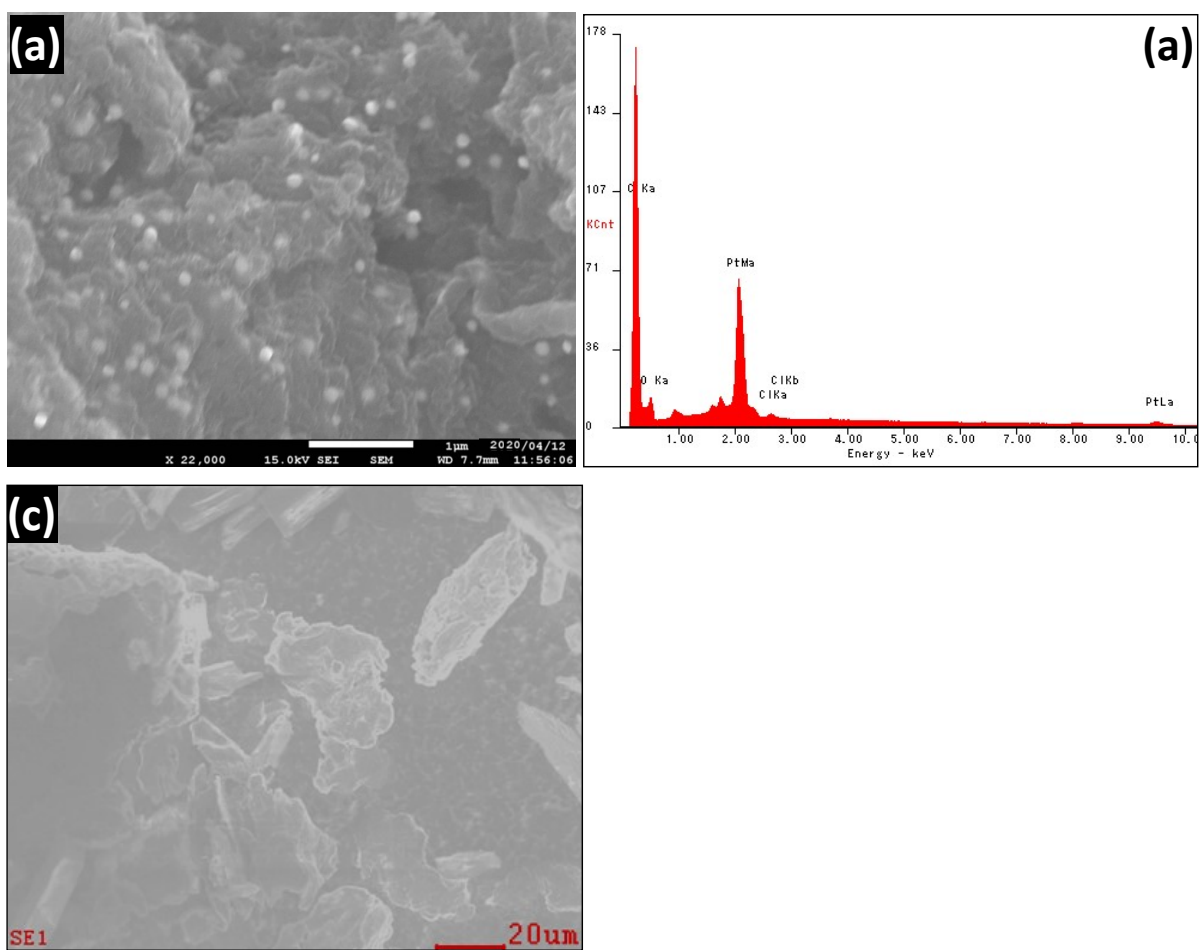

Figure S1: TEM image of HA-rGO-Pt

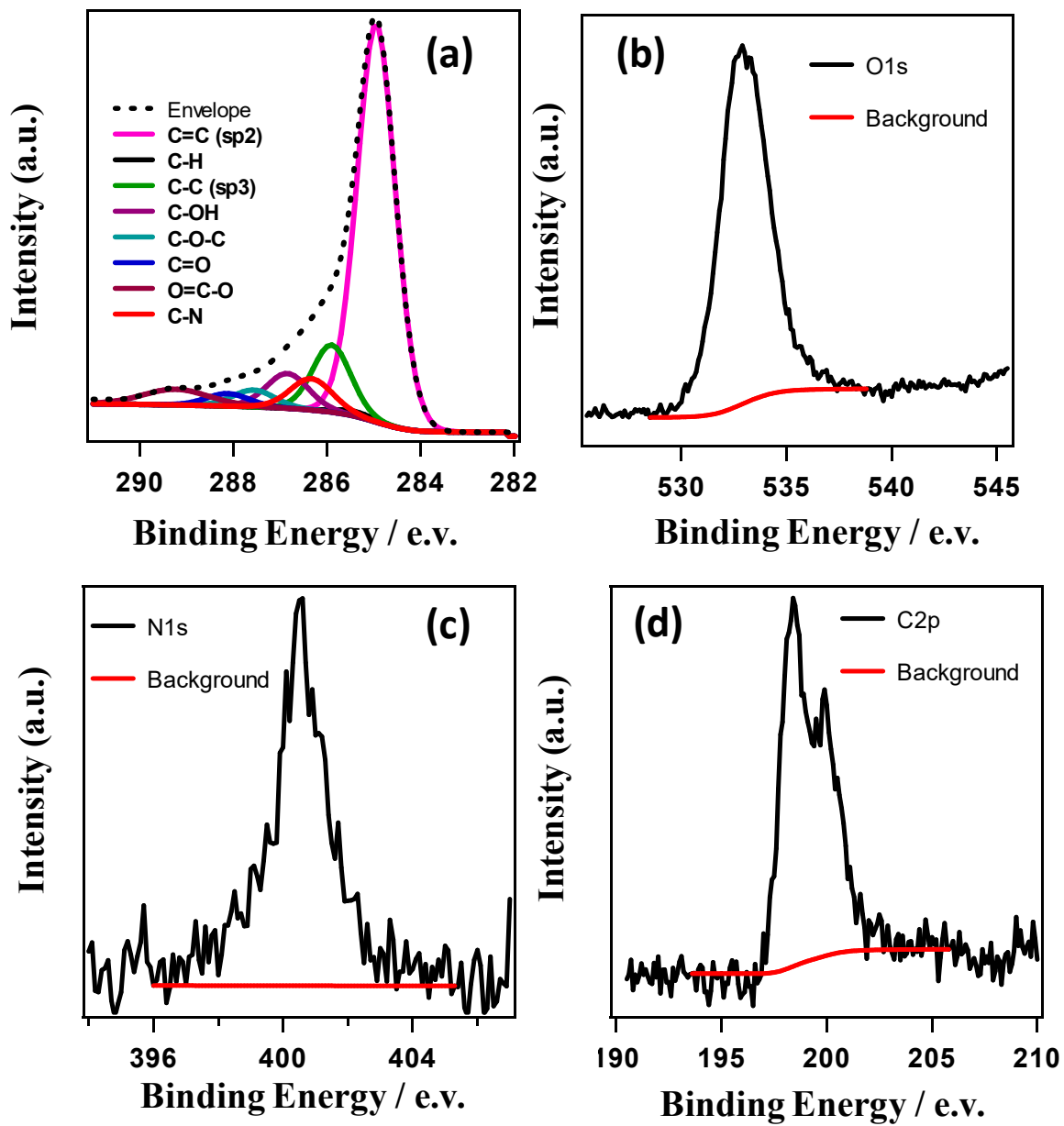**Figure S2: SEM (a) EDS (b) and EDS mapping area (c) for HA-rGO-Pt**

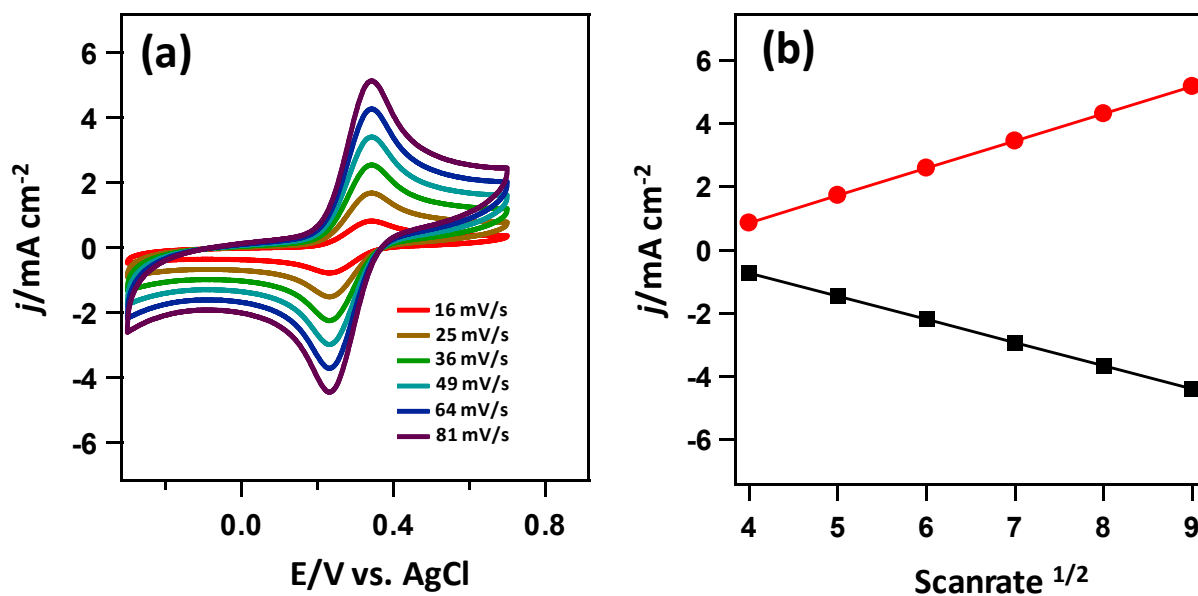Figure S3: XPS spectra or HA-rGO-Pt. C1s (a) O1s (b) N1s (c) and C2p (d)

Figure S4: Cyclic voltammograms of 10 mM [K$_4$Fe(CN)$_6$]/[K$_3$Fe(CN)$_6$] couple (1:1) with supporting 0.1 M KCl at various scan rat (a), and scan rate dependent peak currents (b).