

Electronic Supplementary Information (ESI)

Convenient and controllable preparation of novel uniform nitrogen doped porous graphene/Pt nanoflower material and its highly- efficient electrochemical biosensing study

Shuang Ren, Huan Wang*, Yufan Zhang, Yuena Sun, Lanfen Li, Hongyi Zhang*,
Zhihong Shi, Mingjie Li, Meng Li, Lingna Qiu, Zheng Huang

Key Laboratory of Analytical Science and Technology of Hebei Province, College of Chemistry
and Environmental Science, Key Laboratory of Medicinal Chemistry and Molecular Diagnosis,
Ministry of Education, Hebei University, Baoding 071002, Hebei Province, P. R. China

***Corresponding Author:**

Huan Wang, College of Chemistry and Environmental Science, Hebei University, Baoding
071002, Hebei Province, P. R. China, Email:zwhsjzl@163.com;

Hongyi Zhang, College of Chemistry and Environmental Science, Hebei University, Baoding
071002, Hebei Province, P. R. China, Email:freetime20100401@163.com.

Fig. S1 SEM images of Pt/N-PGR-900.

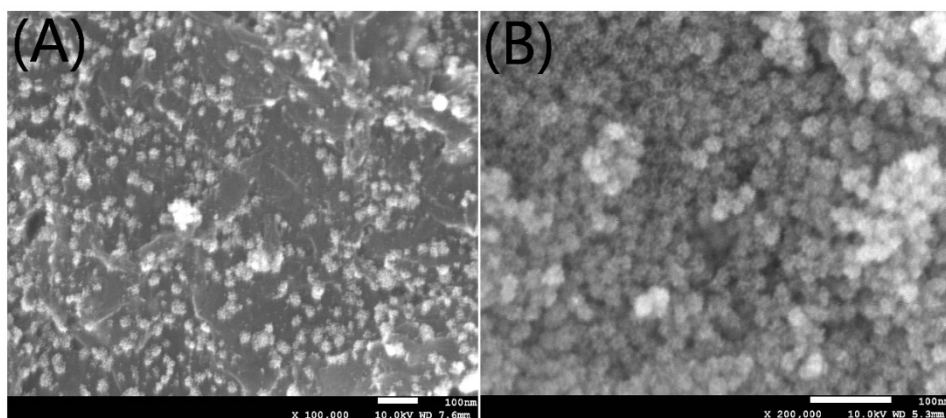


Fig.S2 (a) C elemental mapping (b) N elemental mapping (c) O elemental mapping and (d) Pt elemental mapping of the obtained composite Pt/N-PGR under a typical synthetic condition.

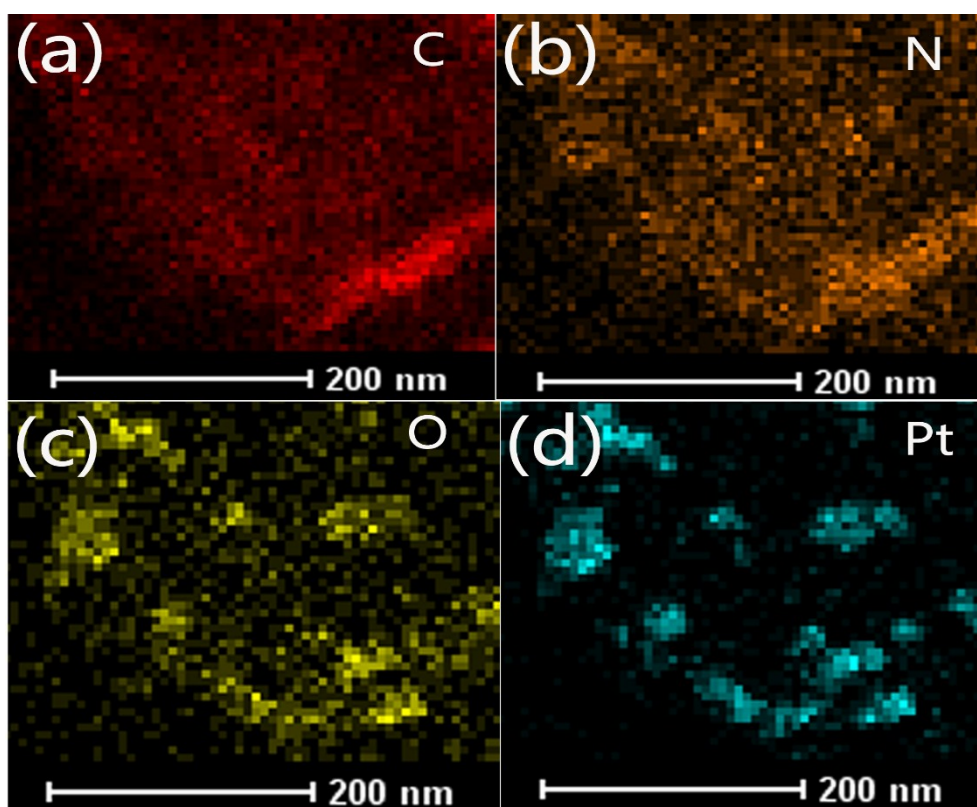


Fig. S3 (A) Cyclic voltammogram of 2 mM AA on (a) GCE and (b) Pt/N-PGR-900/GCE. (B) Cyclic voltammogram of 2 mM DA on (a) GCE and (b) Pt/N-PGR-900/GCE. (C) Cyclic voltammogram of 10 mM N_2H_4 on (a) GCE and (b) Pt/N-PGR-900/GCE.

