Supporting Information

Enhanced sensing performance of supported graphitic carbon nitride nanosheets and the fabrication of electrochemiluminescent biosensors for IgG

Xiaojian Li, Hongmin Ma, Yong Zhang, Dan Wu, Xiaohui Lv, Bin Du, and Qin Wei*

Key Laboratory of Chemical Sensing & Analysis in Universities of Shandong, School of Chemistry and Chemical Engineering, University of Jinan, Jinan 250022, China

*Corresponding author. Tel.: +86 531 8276 7367. E-mail address: sdjndxwq@163.com (Qin Wei).

Figure S1. Photograph of colloidal dispersion of g-C₃N₄ nanosheets in water.
Figure S2. TEM image of NPG.

Figure S3. SEM image of g-C$_3$N$_4$@NPG.
Figure S4. ECL emission from C₃N₄/GCE.

Figure S5. EIS of bare GCE and g-C₃N₄/GCE.

Figure S6. ECL emission from g-C₃N₄@NPG/GCE.
Figure S7. ECL responses obtained at g-C$_3$N$_4$/GCE and g-C$_3$N$_4$@NPG/GCE.

Figure S8. ECL emission from BSA/anti-IgG/g-C$_3$N$_4$@NPG/GCE.

Figure S9. ECL emission from IgG/anti-IgG/g-C$_3$N$_4$@NPG/GCE. The IgG concentration is 5.0 ng·mL$^{-1}$.
Figure S10. ECL emission from IgG/anti-IgG/g-C₃N₄@NPG/GCE. The IgG concentration is (a) 0.005, (b) 0.01, (c) 0.25, (d) 0.5, (e) 1.0, (f) 2.5, (g) 5.0, (h) 10.0 ng·mL⁻¹.