Electronic Supplementary Information (ESI)

Strong electrochemiluminescent interactions between carbon nitride nanosheets-reduced graphene oxide nanohybrids and folic acid, and ultrasensitive sensing for folic acid

Chen Zhou, Yingmei Chen, Pengxiang Shang, Yuwu Chi*

MOE Key Laboratory of Analysis and Detection Technology for Food Safety, Fujian
Provincial Key Laboratory of Analysis and Detection Technology for Food Safety, and
College of Chemistry, Fuzhou University, Fujian 350108, China
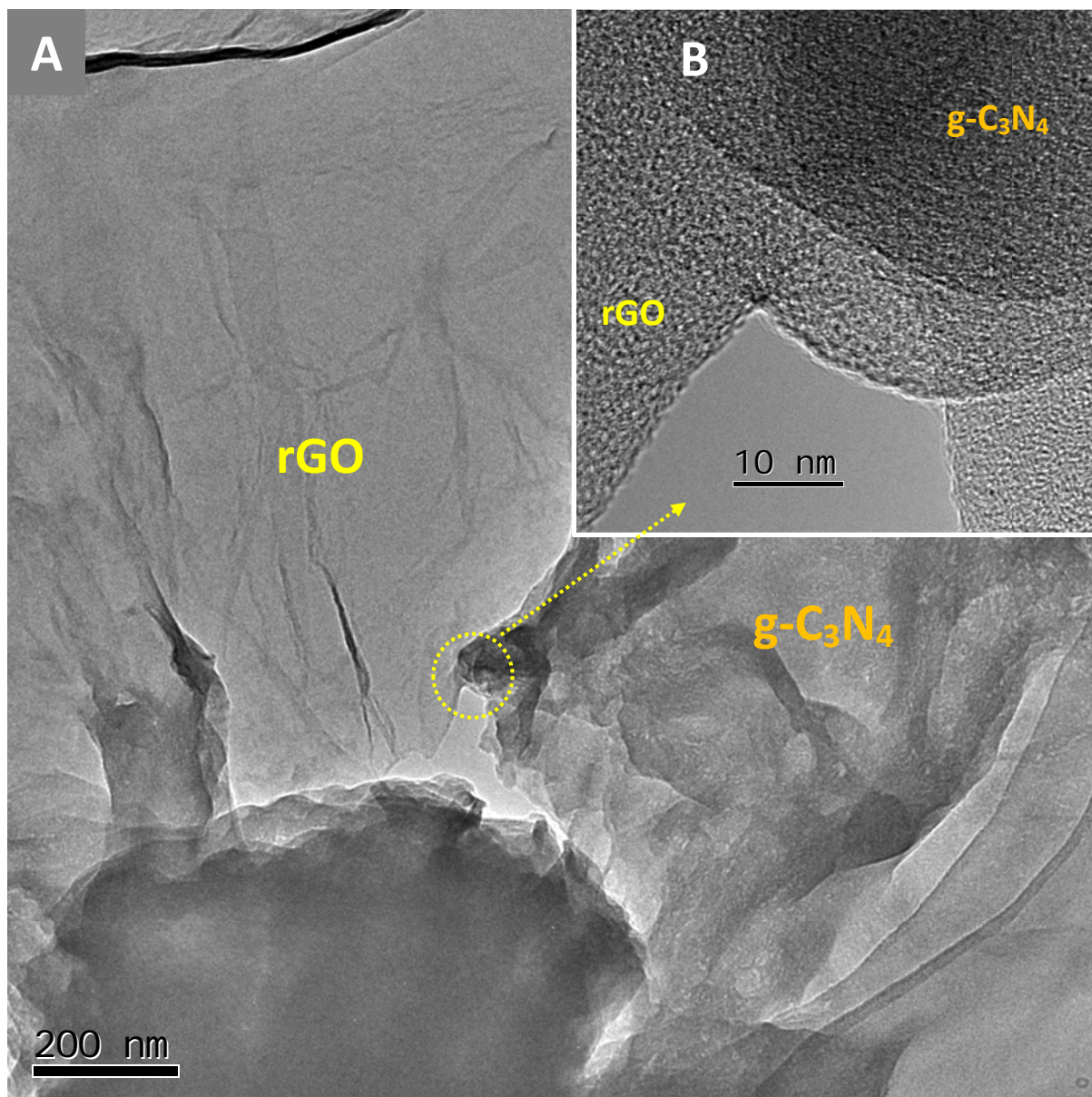*Corresponding author. Tel/Fax: +86 591 22866137. E-mail: y.w.chi@fzu.edu.cn (Y. Chi).

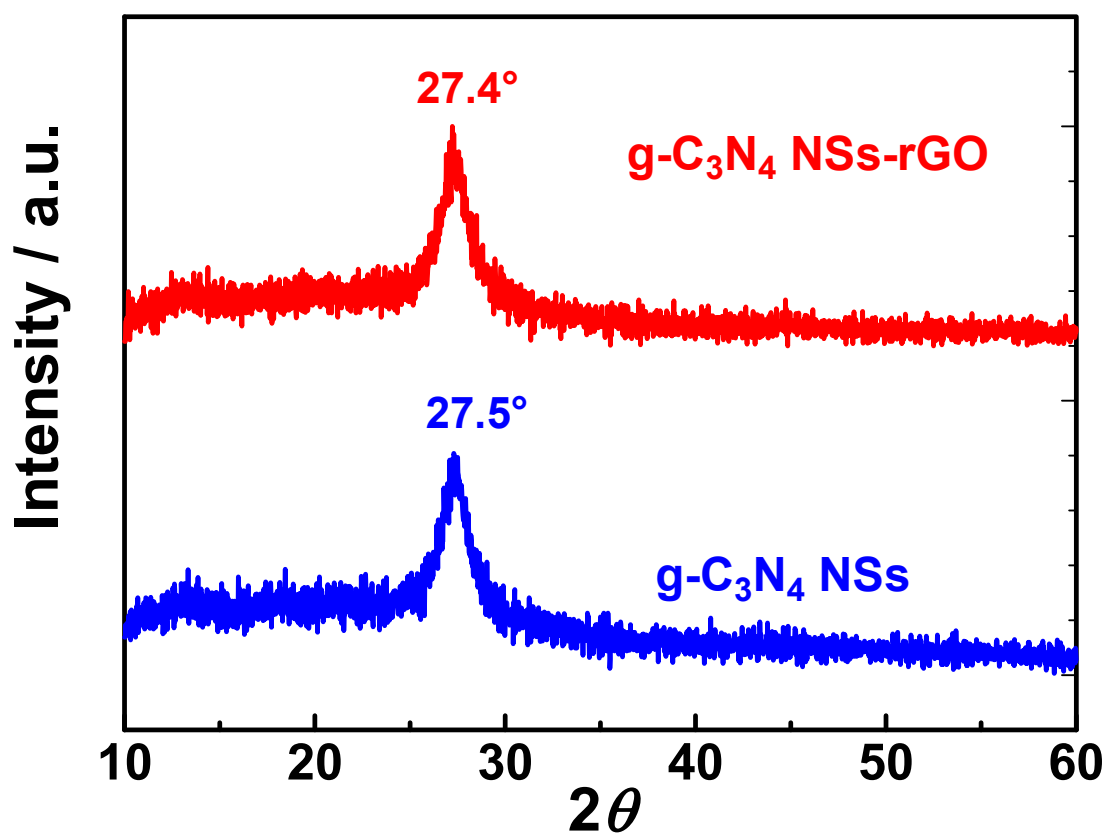**Figure S1.** TEM (A) and HRTEM (B) images of g-C$_3$N$_4$ NSs-rGO nanohybrids.

Figure S2. XRD patterns of g-C$_3$N$_4$ NSs and g-C$_3$N$_4$ NSs-rGO nanohybrids.
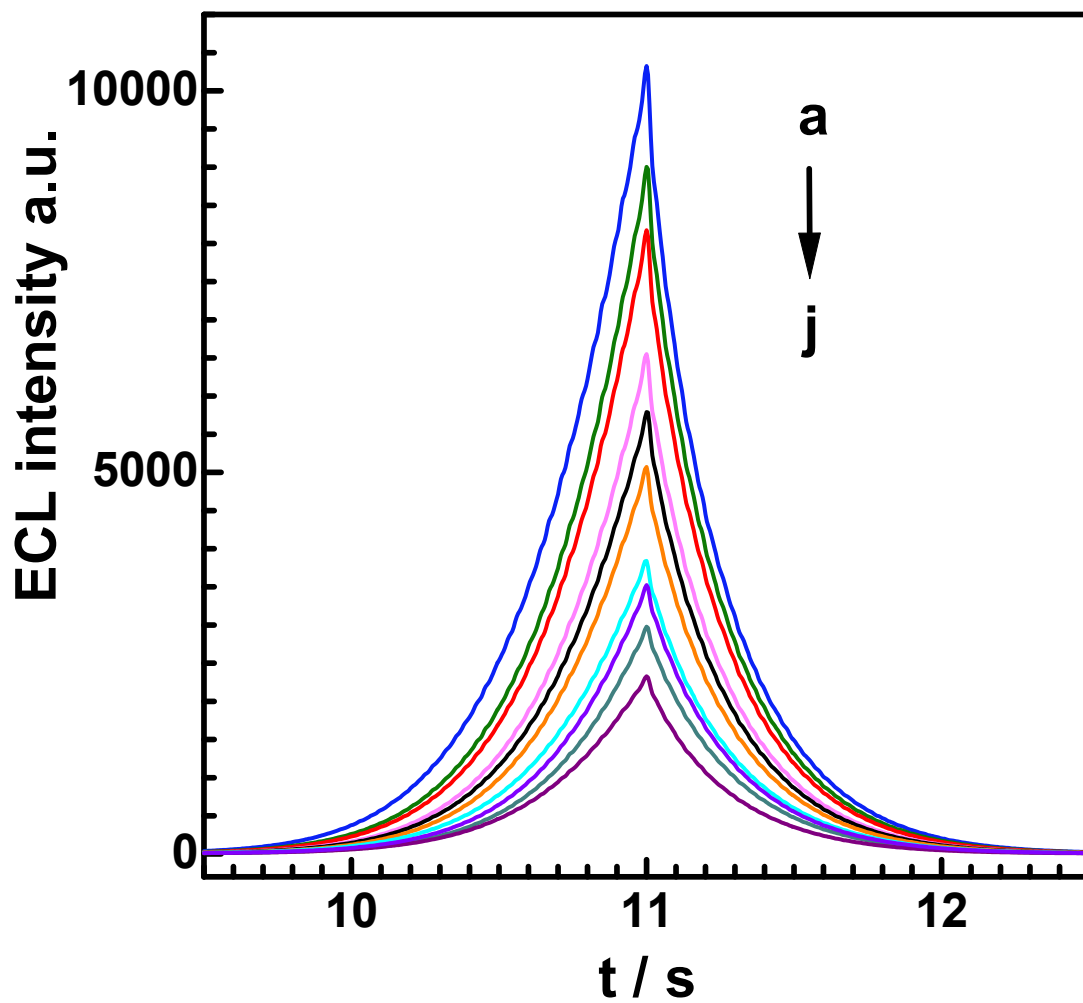
Figure S3. ECL responses of the sensor to FA at various concentrations (from curves (a) to (j): 0.1, 0.4, 0.7, 1, 4, 7, 10, 40, 70, 90 nM). Concentration of $K_2S_2O_8$: 0.1M; pH=7; potential window: -1.1 to 0 V; scan rate: 0.1V/s).