N-Doping Holey Graphene TiO$_2$-Pt Composite as Efficient Electrocatalyst for Methanol Oxidation

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**Figure S1.** TEM images of GO (a), NHGO (b), HGO (c), and AFM image of HGO (d)

**Figure S2.** Raman spectra of GO, HGO, NHGO, and TiO$_2$-NHGO
Figure S3. XPS spectra of C1s (a), Ti 2p (b) of Pt-TiO$_2$-rNHGO, C1s comparison of GO, Pt-rGO, Pt-rHGO, Pt-rNHGO and Pt-TiO$_2$-rNHGO (c), and GO, HGO and NHGO (d).

Figure S4. CO-stripping CVs of Pt-rGO (a), Pt-rHGO (b), and Pt-rNHGO (c) catalysts in a solution of 0.5 M H$_2$SO$_4$ at a scan rate of 50 mVs$^{-1}$. 