Supplementary information

Boron-doped graphitic carbon nitride nanosheets for enhanced visible light photocatalytic water splitting

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Supporting Information Figure

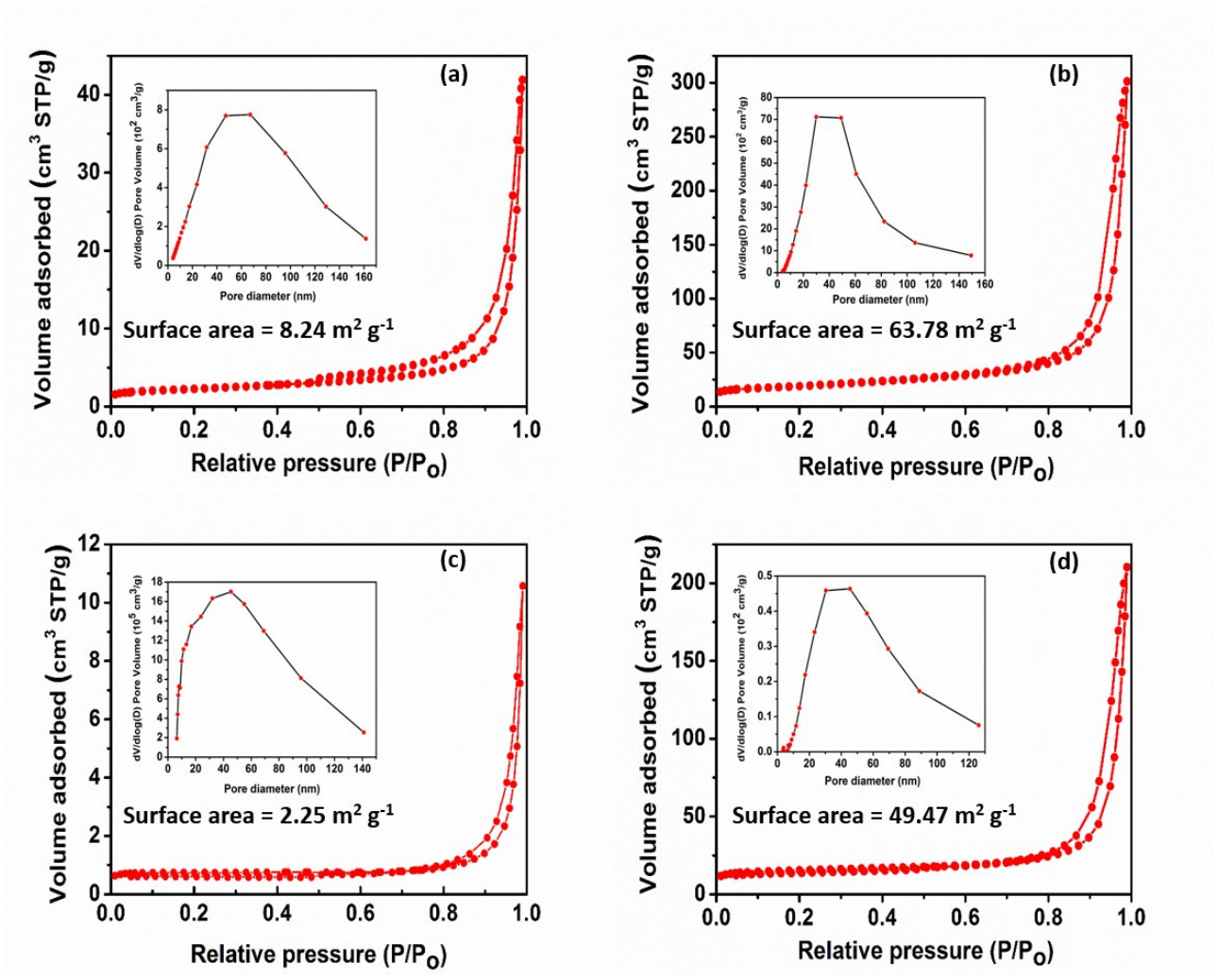

Fig. S1. The BET surface area calculated from nitrogen adsorption-desorption isotherms. (a) g-C_3N_4 bulk, (b) g-C_3N_4 nanosheets, (c) 1at%B-g-C_3N_4 bulk, and (d) 1at%B-g-C_3N_4 nanosheets.

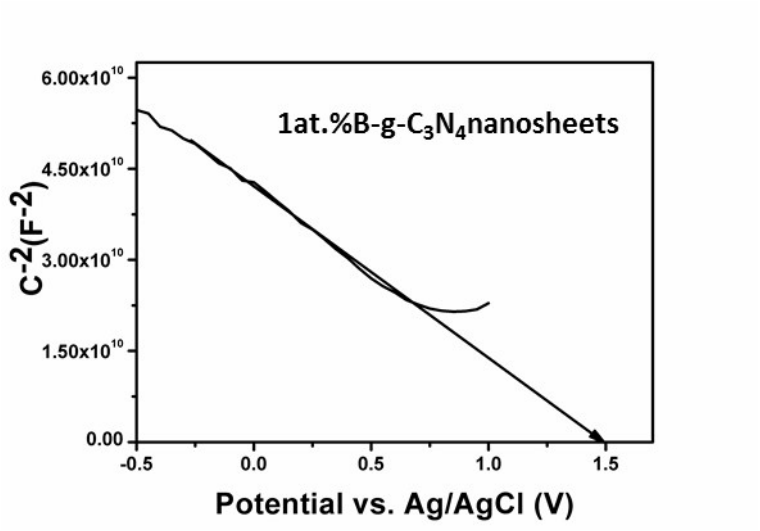

Fig. S2. Mott-Schottky plot of 1at%B-g-C_3N_4 nanosheets in 0.2 M Na_2SO_4 aqueous solution.

The Flat band potential of 1at.%B-g-C_3N_4 nanosheets is determined to be 2.05 V *vs.* Ag/AgCl at pH = 6.6, which correspond to 2.05 V *vs.* NHE at pH= 0.