Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A

Natural Leaves-Assisted Synthesis of Nitrogen-Doped, Carbon-Rich Nanodots-Sensitized, Ag-Loaded Anatase TiO_2 Square Nanosheets with Dominant {001} Facets and Their Enhanced Catalytic Applications

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Supporting Information

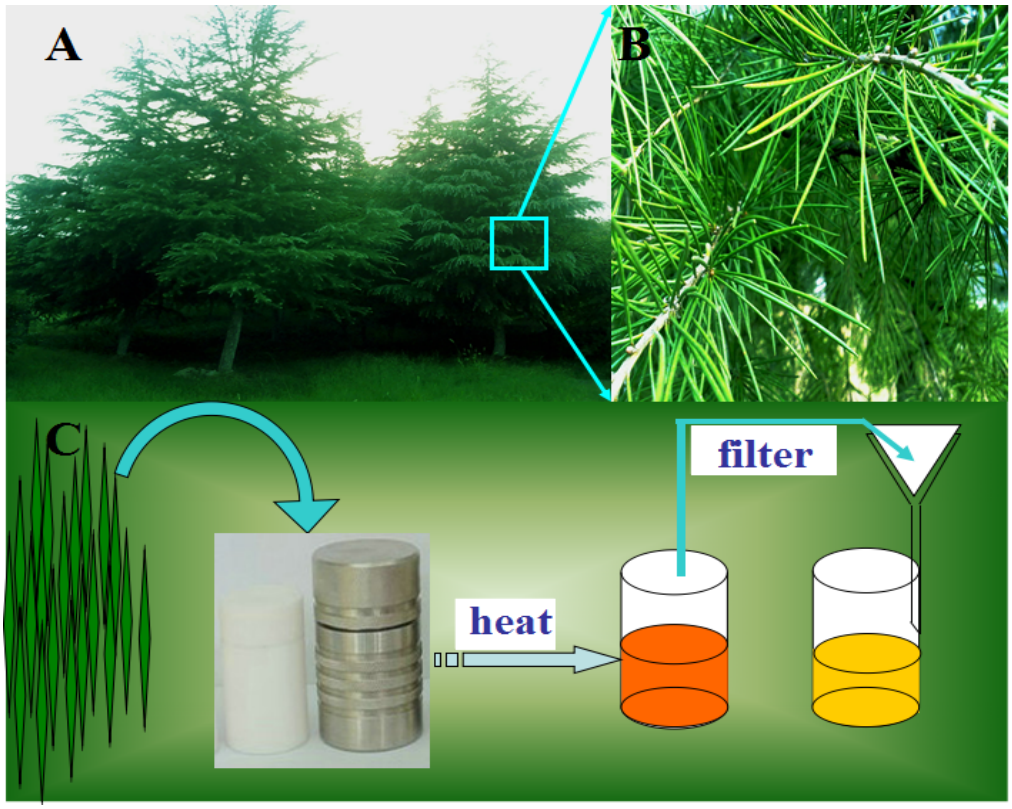

Figure S1. The details of preparation process (A and B are pictures of the leaves.).

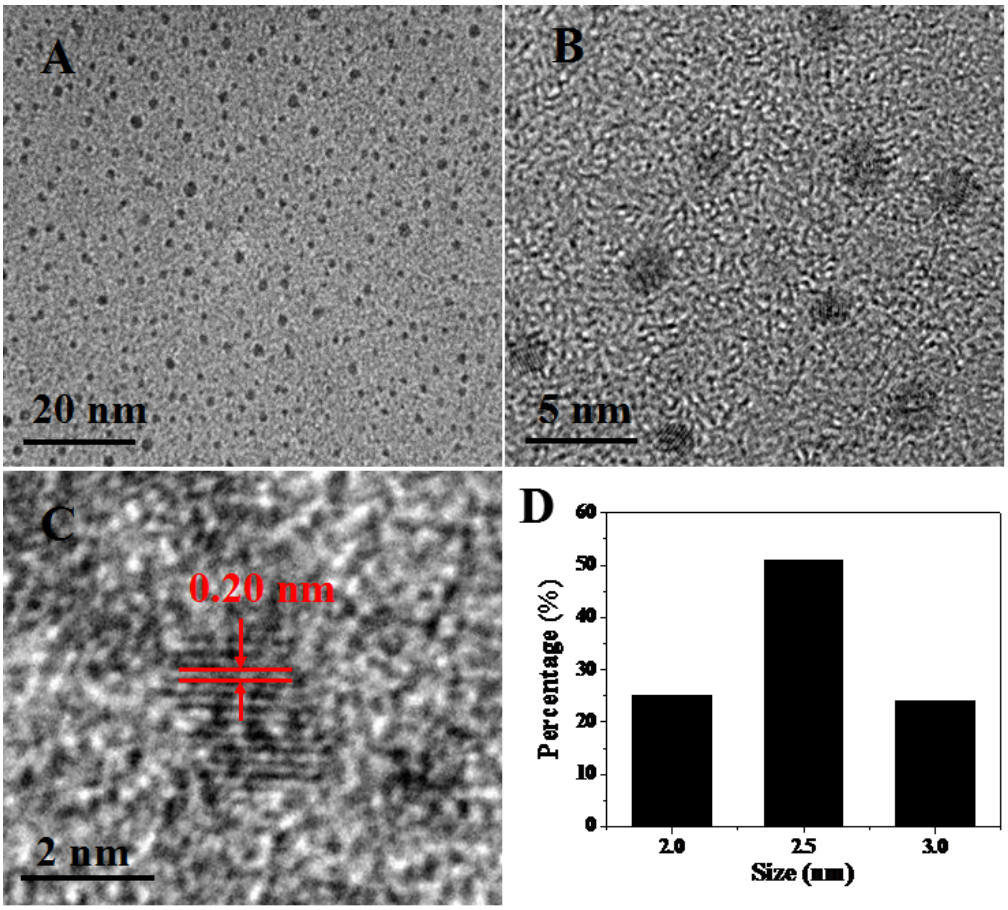

Figure S2. Low (A) and high (B) magnification TEM images of nanodots, (C) HRTEM image of one nanodot, (D) particle size distribution of nanodots.

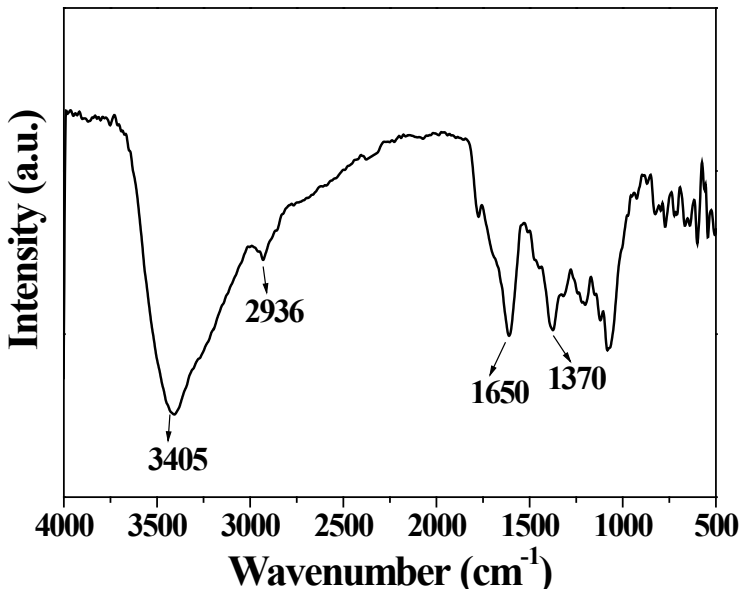

Figure S3. FT-IR spectrum of nanodots.

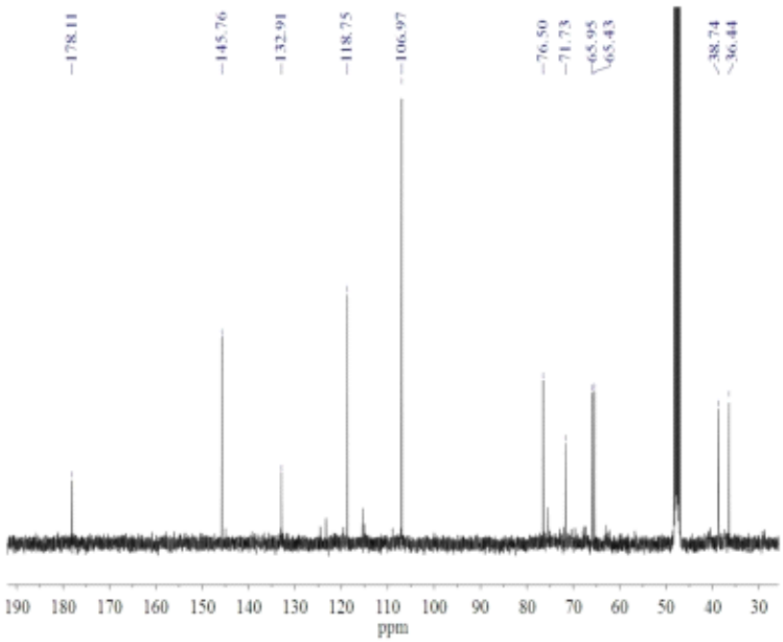

Figure S4. ^{13}C NMR spectrum of the nanodots.

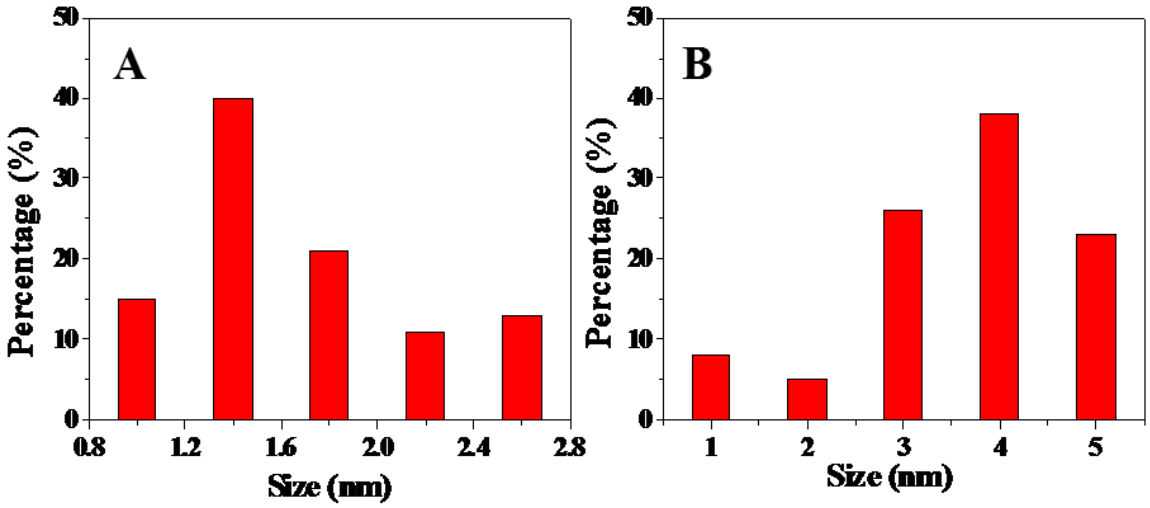

Figure S5. Size distribution of Ag (A: 2%Ag@NC-TiO_2, B: 5%Ag@NC-TiO_2).

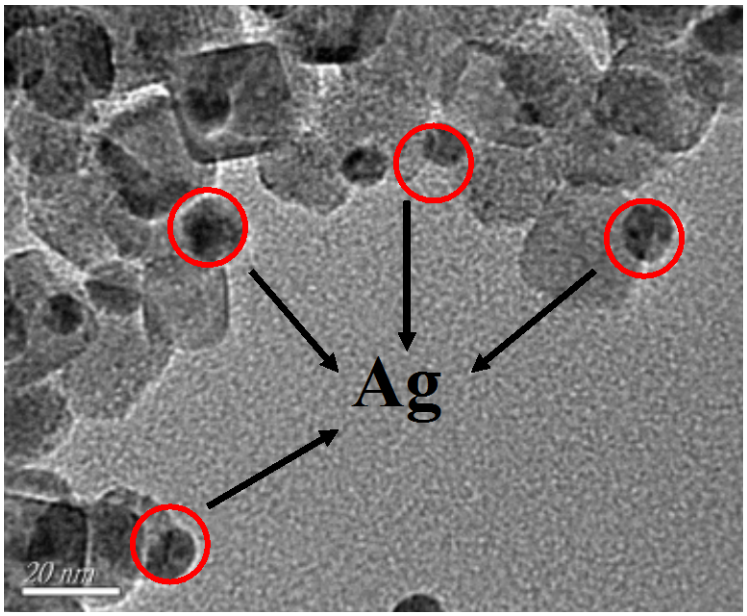

Figure S6. TEM image of 10%Ag@NC-TiO_2.

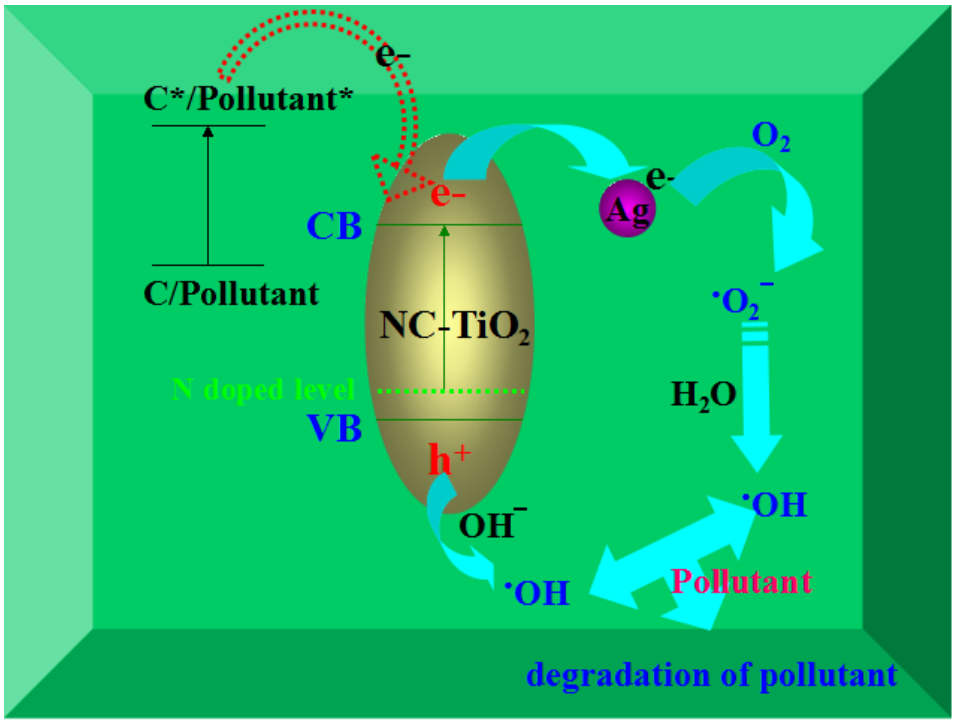

Figure S7. Possible mechanism of Ag@NC-TiO_2 nanosheets in degradation of rhodamine B and ciprofloxacin.