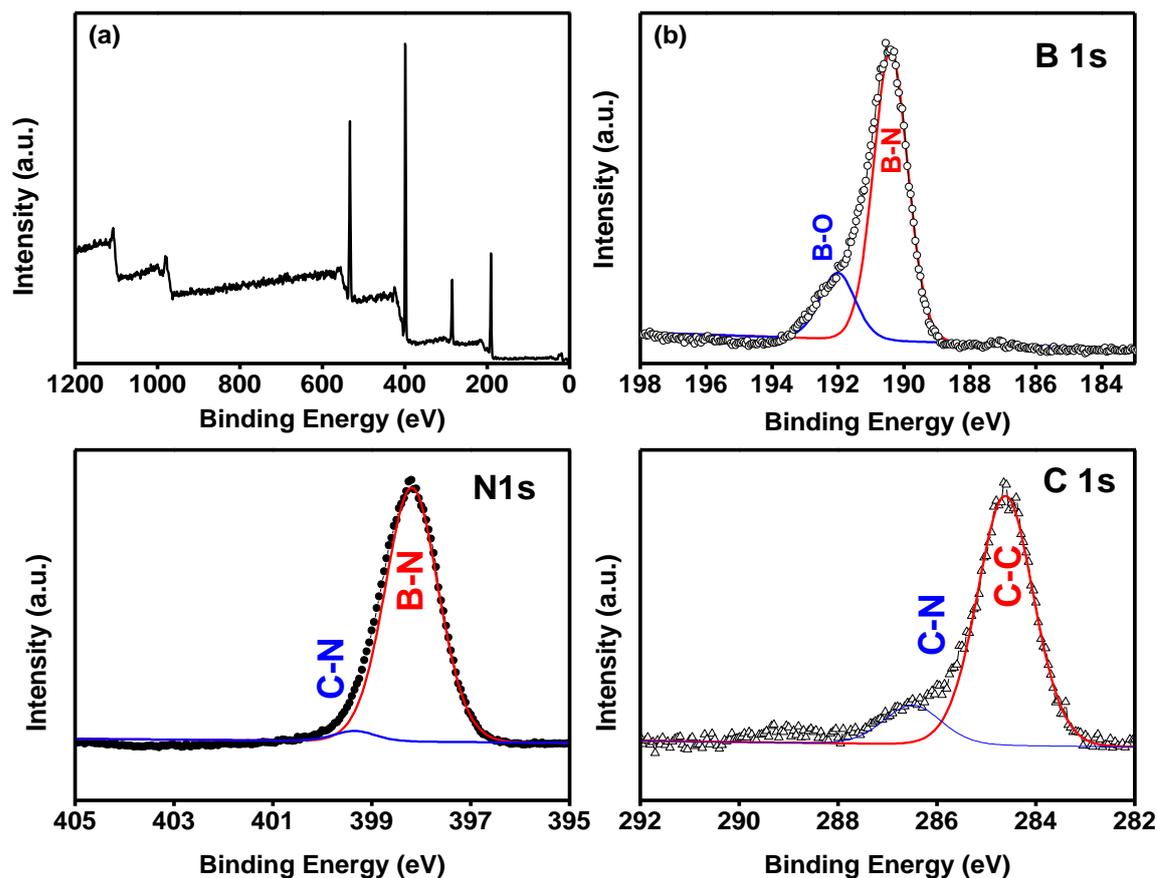


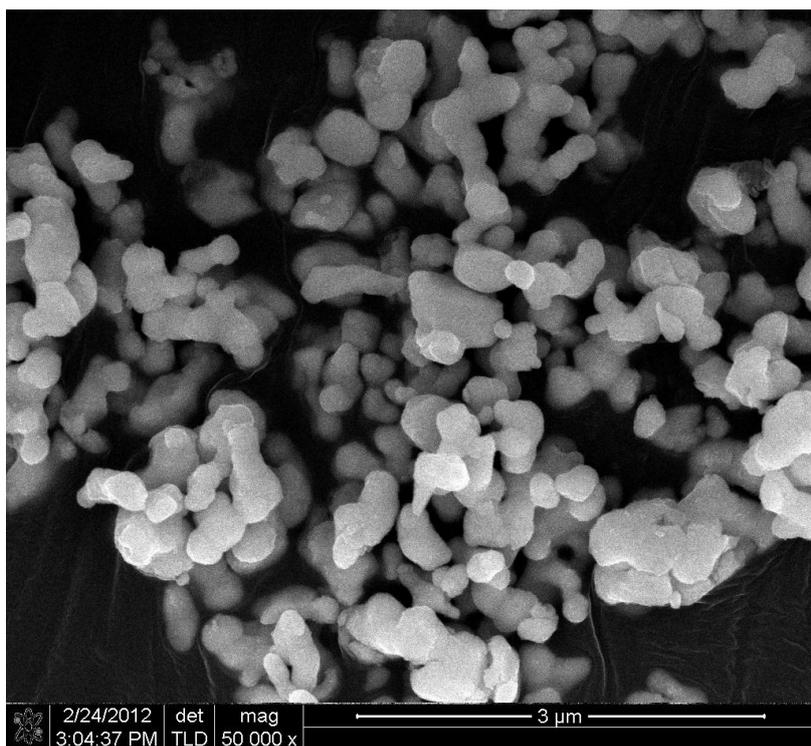
## Supporting information

# Stable colloidal boron nitride nanosheets dispersion and its potential application in catalysis

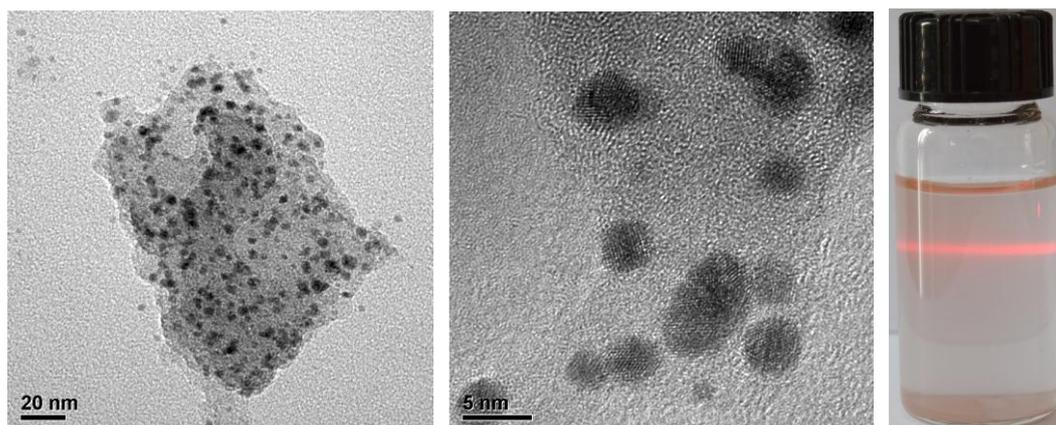
Caijin Huang, Cheng Chen, Xinxin Ye, Weiqing Ye, Jinli Hu, Chao Xu and Xiaoqing Qiu\*



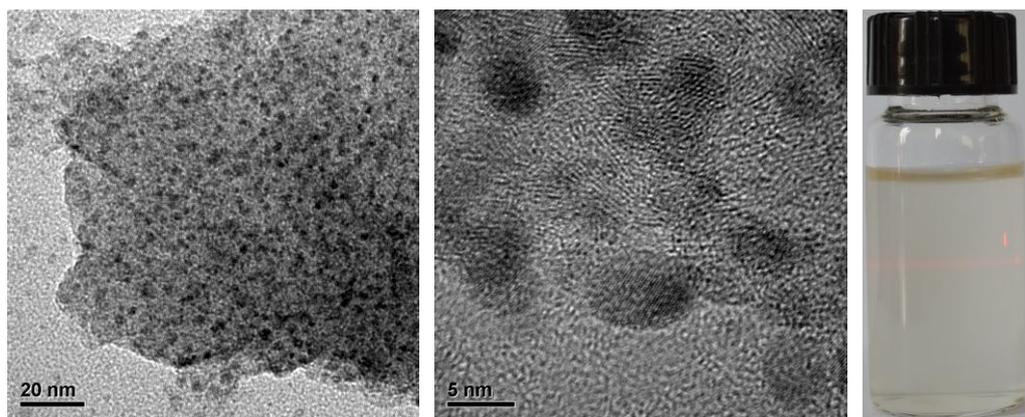
**Fig. S1** XPS survey spectra of the as-obtained h-BN powder, specifying B, N, and C 1s core levels, respectively. The spectrum curves (black) are deconvoluted by Gaussian fitting (blue and red). Elemental formula and possible bonding information are given in the spectra.



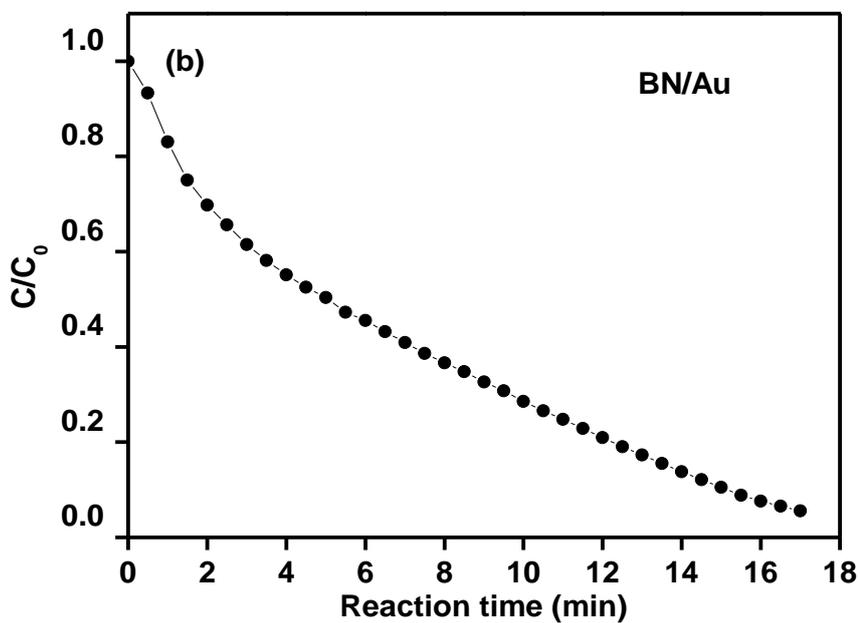
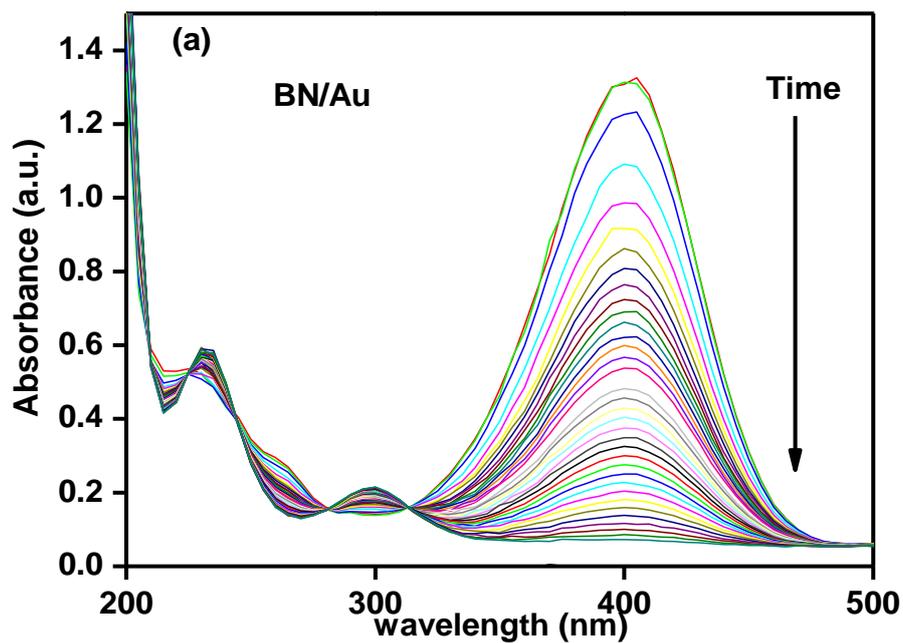
**Fig. S2** SEM image of the h-BN powder particles obtained by Nag's method.



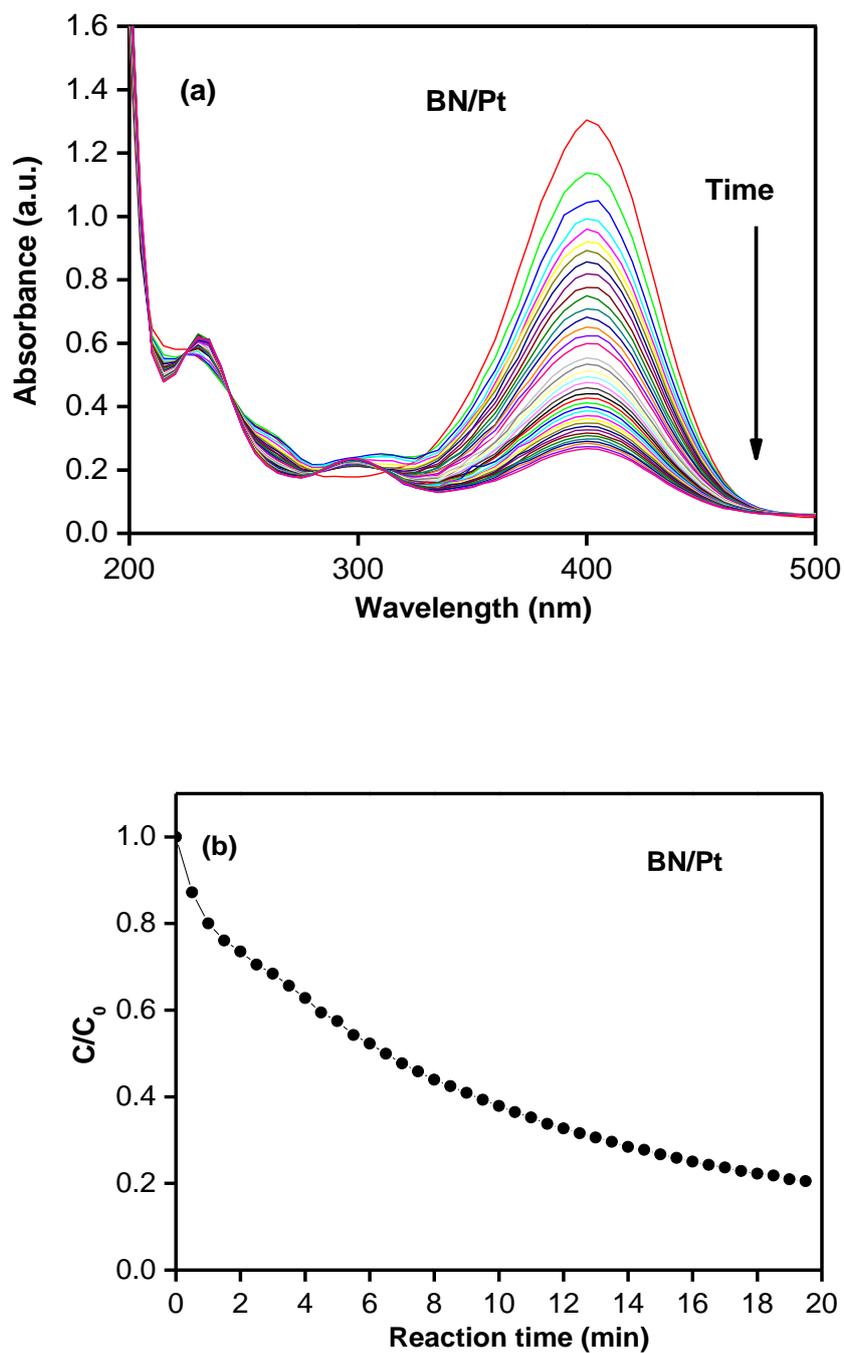
**Fig. S3** TEM and HRTEM images of *h*-BN sheets/Au composites, and picture of direct of *h*-BN sheets/Au composites colloidal dispersion.



**Fig. S4** TEM and HRTEM images of *h*-BN sheets/Pt composites, and picture of direct of *h*-BN sheets/Pt composites colloidal dispersion.



**Fig. S5** (a) Evolution of UV-Vis spectra during p-nitrophenol degradation catalyzed by *h*-BN sheets/Au composites. Each curve was taken successively at 30-sec intervals. (b) Conversion of p-nitrophenol as a function of reaction time.



**Fig. S6** (a) Evolution of UV-Vis spectra during p-nitrophenol degradation catalyzed by *h*-BN sheets/Pt composites. Each curve was taken successively at 30-sec intervals. (b) Conversion of p-nitrophenol as a function of reaction time.