

## Supplementary Materials

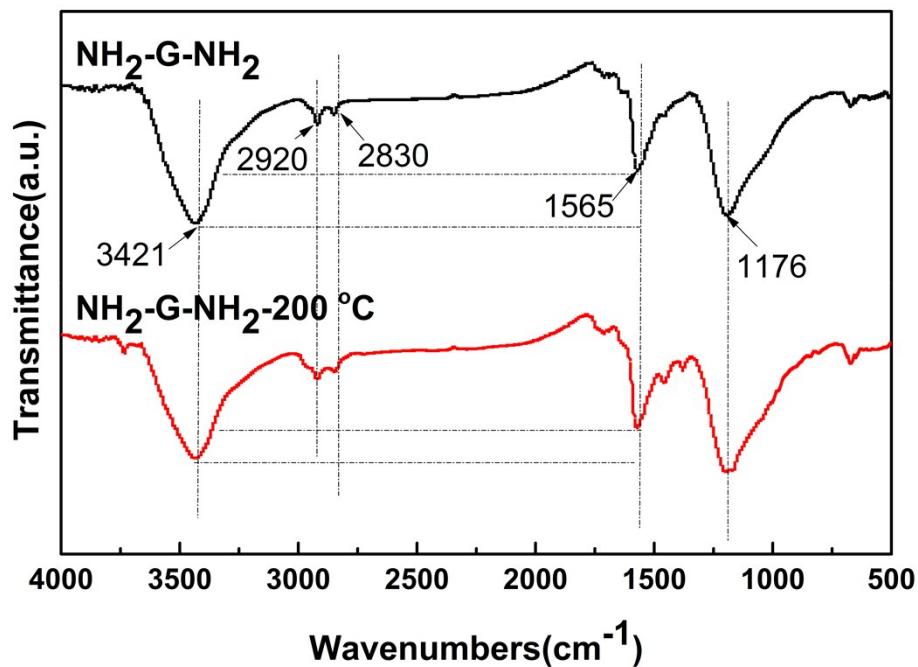
### Synthesis and Characterization of 1, 3-diamino-graphene as a Heterogeneous Ligand for CuI-catalyzed C-N Coupling Reaction

Limei Zhou\*, Mengyun Yin, Xiaohui Jiang, Qiang Huang, and Wencheng Lang

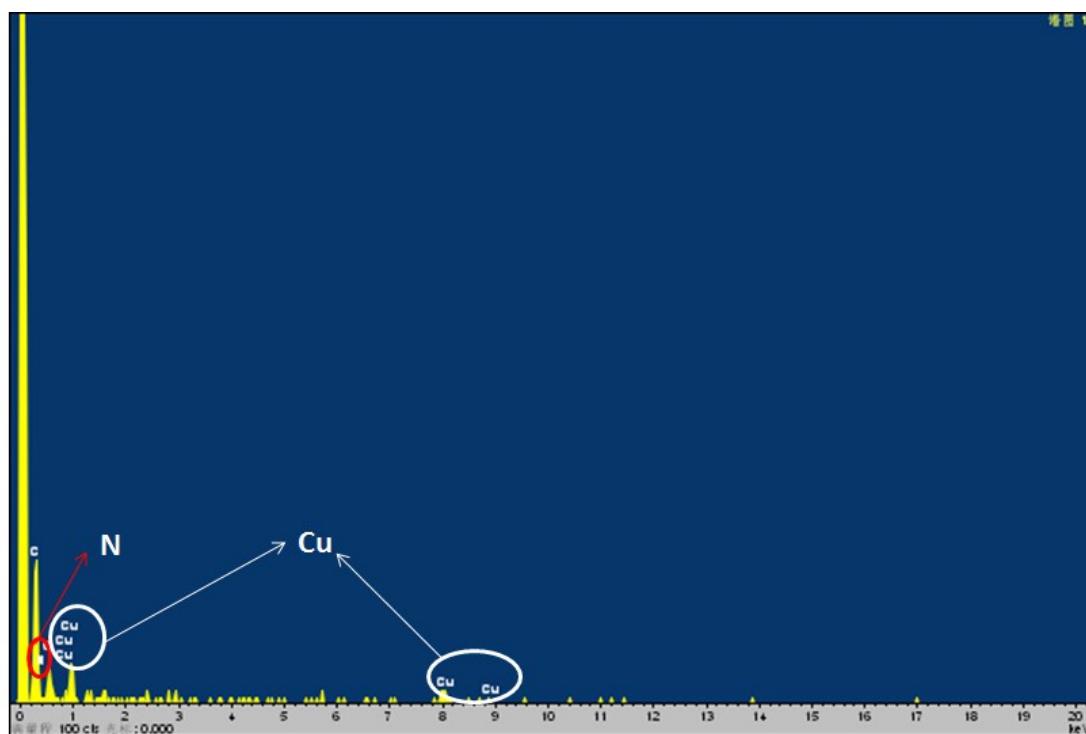
Chemical Synthesis and Pollution Control Key Laboratory of Sichuan Province,  
China West Normal University, Nanchong 637002, Sichuan, China.

#### List of contents

- (a) FT-IR analysis of NH<sub>2</sub>-G-NH<sub>2</sub> and NH<sub>2</sub>-G-NH<sub>2</sub>-200°C.
- (b) EDS images and analysis of CuI/NH<sub>2</sub>-G-NH<sub>2</sub> catalyst.

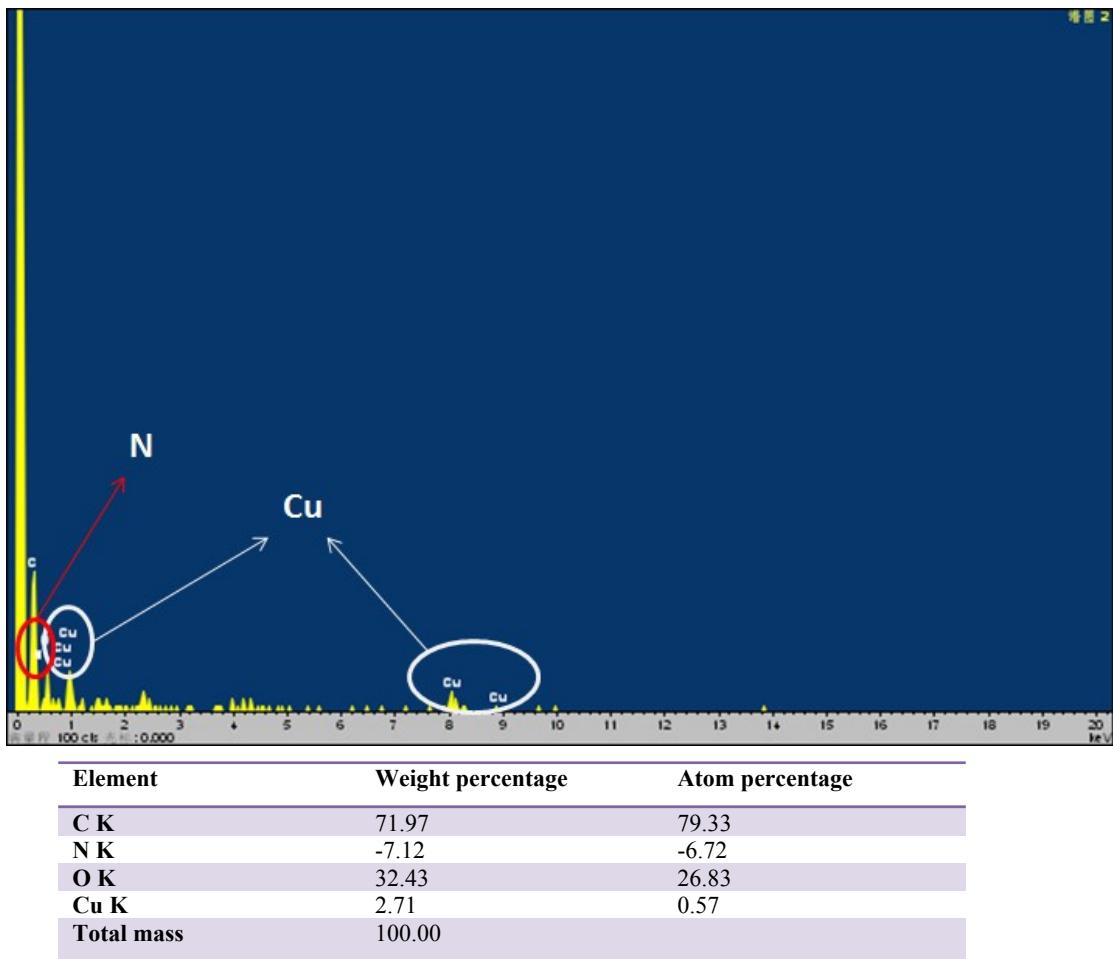


**Fig. S1** FT-IR analysis of NH<sub>2</sub>-G-NH<sub>2</sub> and NH<sub>2</sub>-G-NH<sub>2</sub>-200 °C.



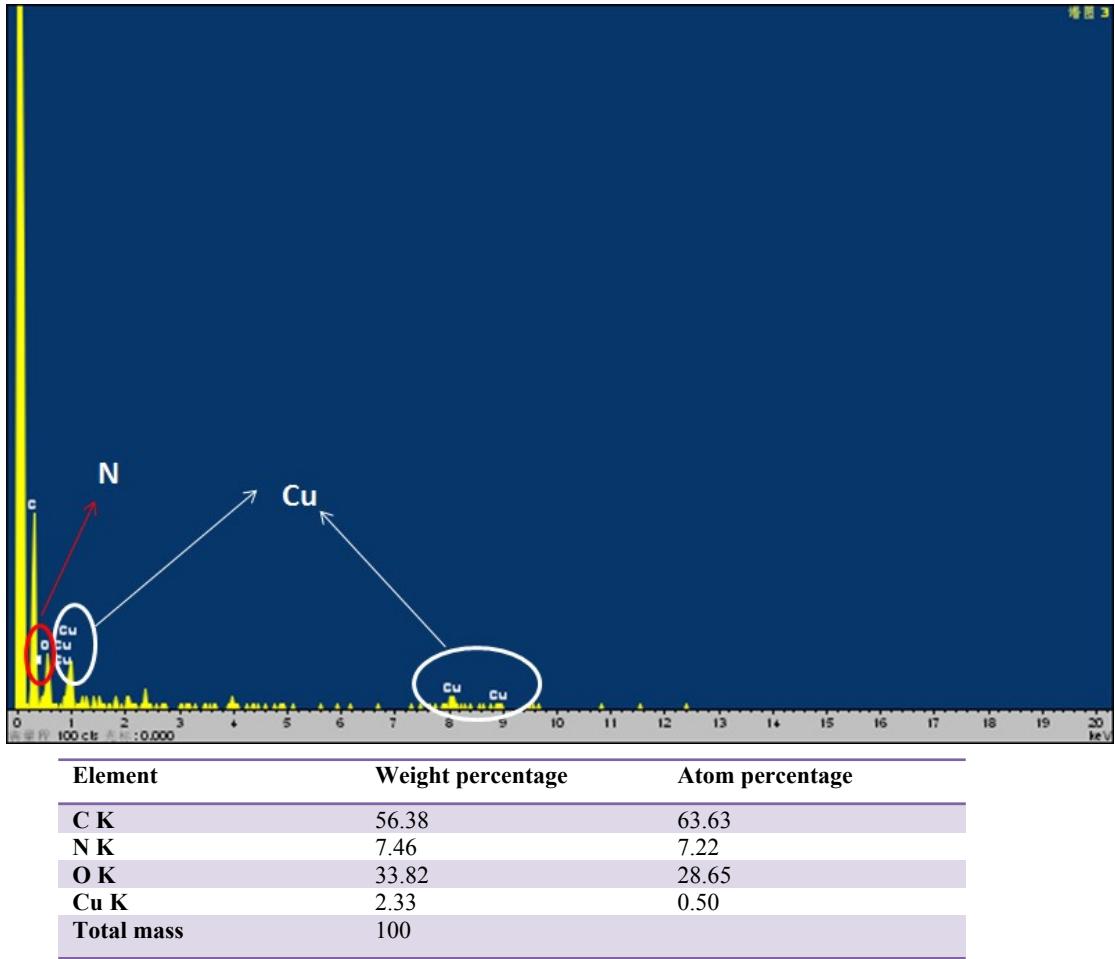
Element	Weight percentage	Atom percentage
C K	55.78	61.61
N K	24.41	23.12
O K	17.96	14.89
Cu K	1.85	0.39
Total mass	100.00	

**Fig. S2** The EDS image and analysis of CuI/NH<sub>2</sub>-G-NH<sub>2</sub> catalyst (agglomeration 1).

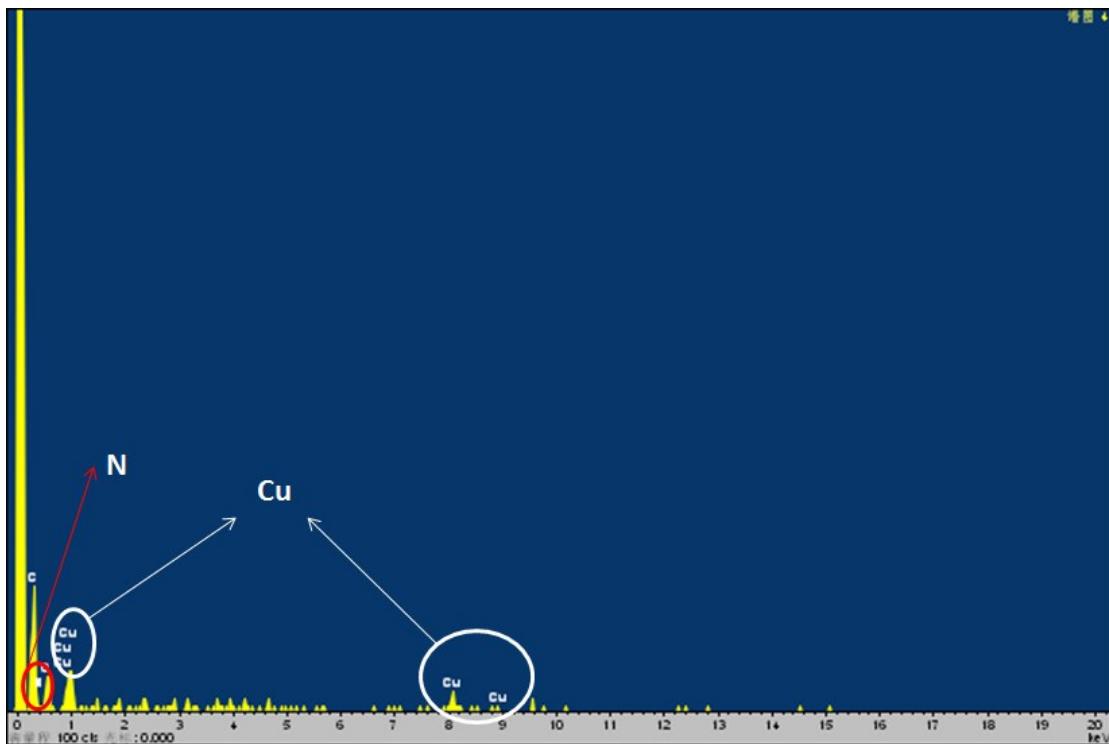


**Fig. S3** The EDS image and analysis of CuI/NH<sub>2</sub>-G-NH<sub>2</sub> catalyst (agglomeration 2).

图 S4



**Fig. S4** The EDS image and analysis of CuI/NH<sub>2</sub>-G-NH<sub>2</sub> catalyst (agglomeration 3).



Element	Weight percentage	Atom percentage
C K	43.38	49.84
N K	20.85	20.54
O K	33.86	29.21
Cu K	1.90	0.41
Total mass	100	

**Fig. S5** The EDS image and analysis of CuI/NH<sub>2</sub>-G-NH<sub>2</sub> catalyst (agglomeration 4).