

Supporting Information

Fabricating g-C₃N₄/CuO_x heterostructure with tunable valence transition for enhanced photocatalytic activity

Yanbiao Shi,^a Zhanxue Yang,^a Yan Liu,^b Jie Yu,^a Fangping Wang,^a Jinhui Tong,^a Bitao Su^a and Qizhao Wang^{*a,c}

^aCollege of Chemistry and Chemical Engineering, Northwest Normal University, Lanzhou 730070, China

^bShanghai Academy of Spaceflight Technology, Shanghai, 201109, China

^cKey Laboratory of Eco-Environment-Related Polymer Materials, Ministry of Education of China, Key Laboratory of Bioelectrochemistry and Environmental Analysis of Gansu, Lanzhou 730070, China

*To whom correspondence should be addressed

E-mail: wangqizhao@163.com; qizhaosjtu@gmail.com

Tel/Fax: 86-931-7972677

Figures

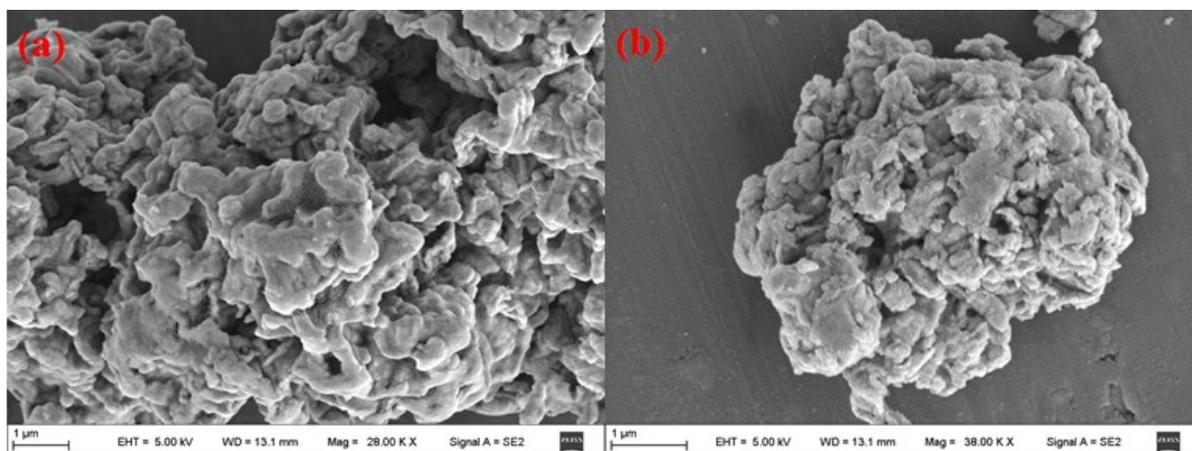


Fig. S1. SEM images of as-synthesized samples. (a) CN7.5/CuO_x; (b) CN10/CuO_x.

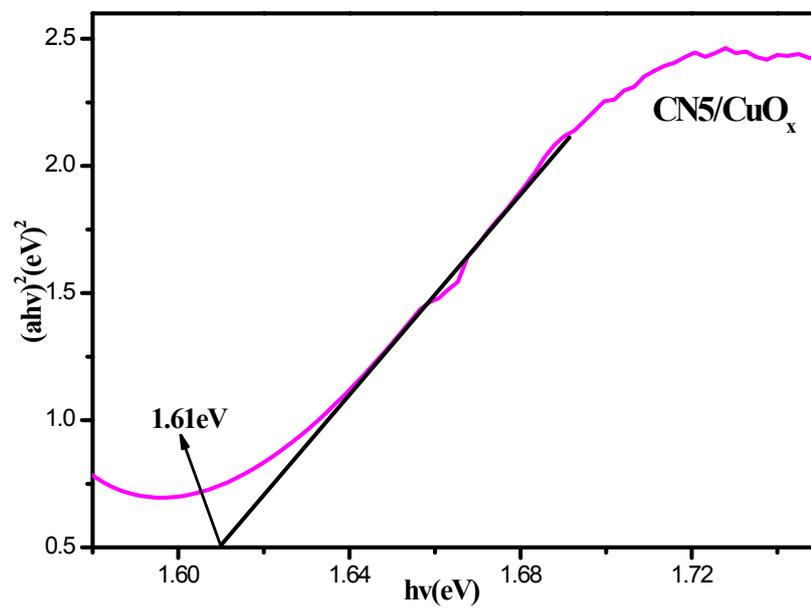


Fig. S2. The corresponding plots of $(ah\nu)^2$ vs. $h\nu$ curve of CN5-CuO_x composites.

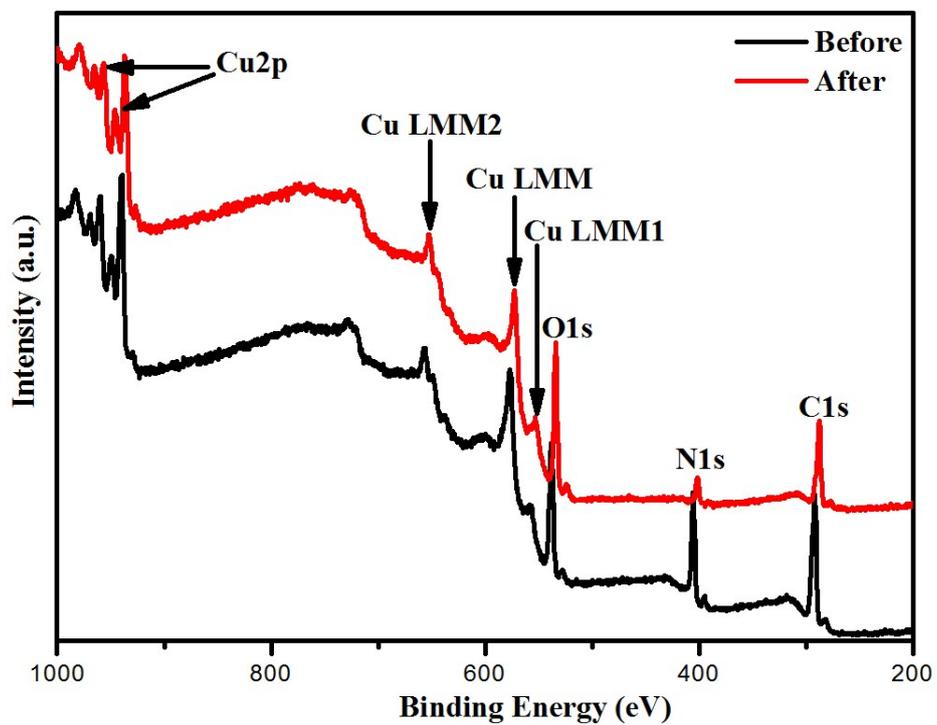


Fig. S3. The whole XPS spectrum of CN5-CuOx sample.

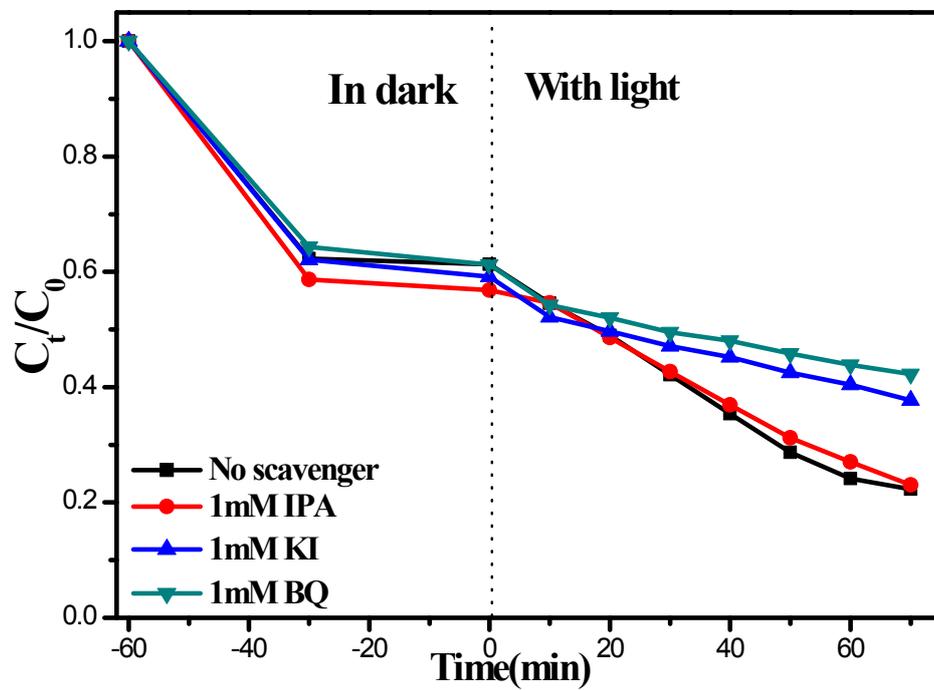


Fig. S4. Plots of photogradation of MO over CN5-CuO_x photocatalyst with different scavengers under stimulated sunlight irradiation.