Supplementary Information

Research on the elimination of low-concentration formaldehyde by Ag loaded onto Mn/CeO$_2$ catalyst at room temperature

Chaomin Duan,$^{ab}$ Yanlin Zhou,$^{ab}$ Mianwu Meng,$^{ab}$ Huang Huang,$^c$ Hua Ding,$^b$ Qi Zhang,$^b$

Renyuan Huang$^b$ and Mengjuan Yan$^b$

$^a$ Key Laboratory of Ecology of Rare and Endangered Species and Environmental Protection, Ministry of Education, Guilin 541004, China

$^b$ College of Environment and Resources, Guangxi Normal University, Guilin 541004, China

$^c$ Guilin Huayue Entech Limited Company, Guilin 541805, China

* Corresponding authors.

E-mail addresses: 897405894@qq.com (M. Meng), 45703155@qq.com (H. Huang).

# These authors contributed equally to this work.
**Fig. S1** The preparation process for catalysts.
Fig. S2 SEM and EDS images of pure CeO$_2$ (a and b), Mn/CeO$_2$ (c and d), and Ag/Mn/CeO$_2$ (e and f).
Fig. S3 Formaldehyde removal performance of the Ag/Mn/CeO$_2$ catalyst at different humidity.