

# **Supplementary Materials for**

## **DRIFTS-MS Investigation of Low-Temperature CO Oxidation on Cu-Doped Manganese Oxide Prepared Using Nitrate Aerosol Decomposition**

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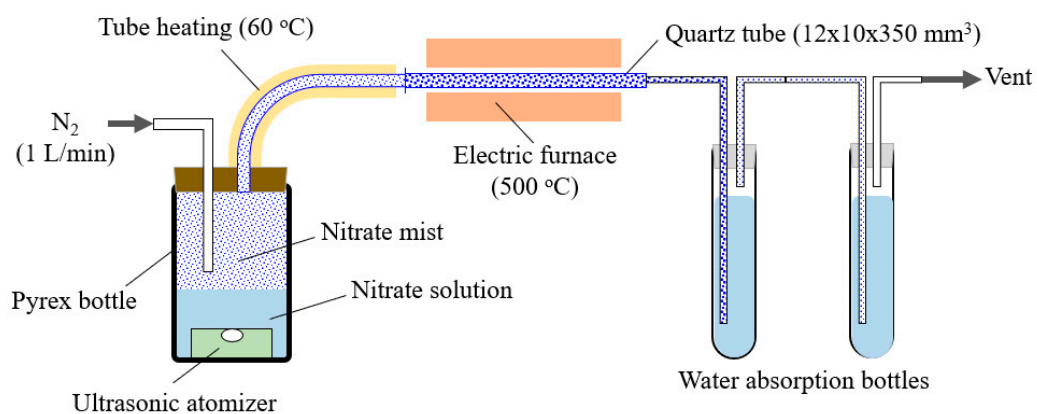
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**S1. Experimental system (Figure S1)**

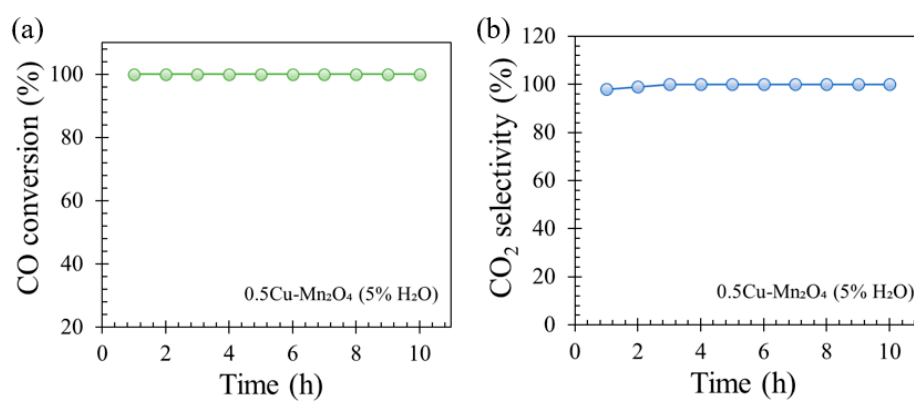
**S2. Results (Figure S2-S5)**

## S1. Experimental system

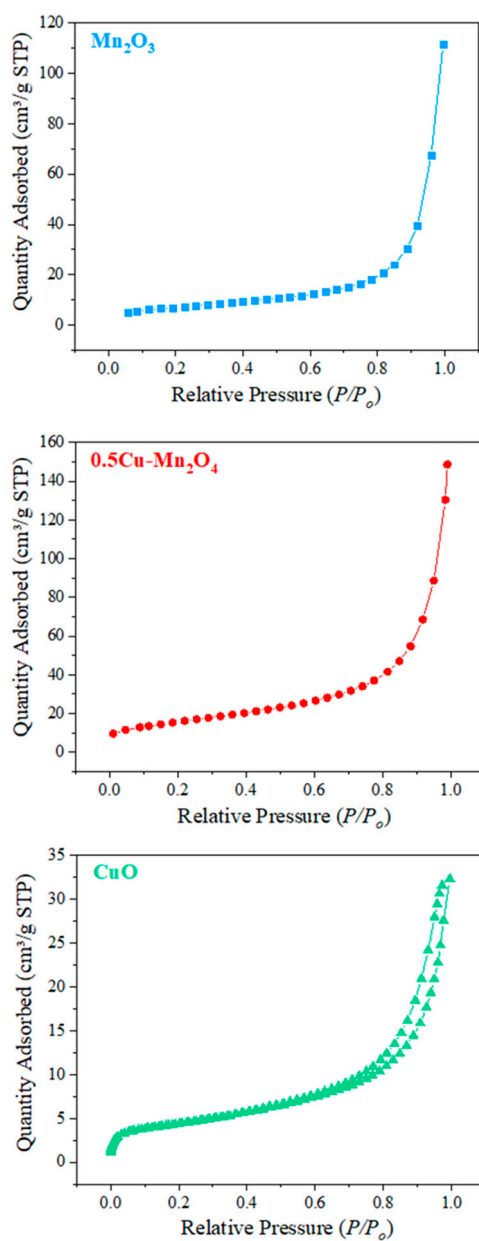


**Figure S1.** Diagram of catalyst preparation system.

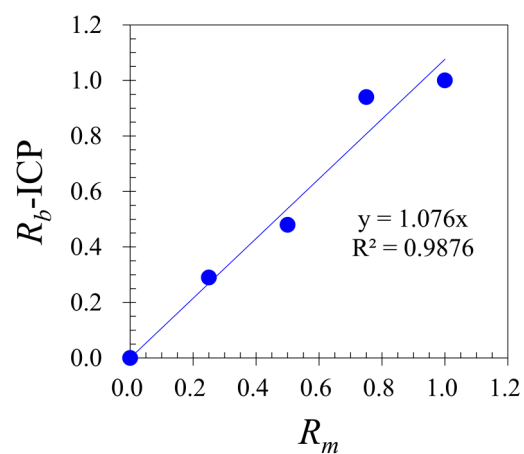
## S2. Results



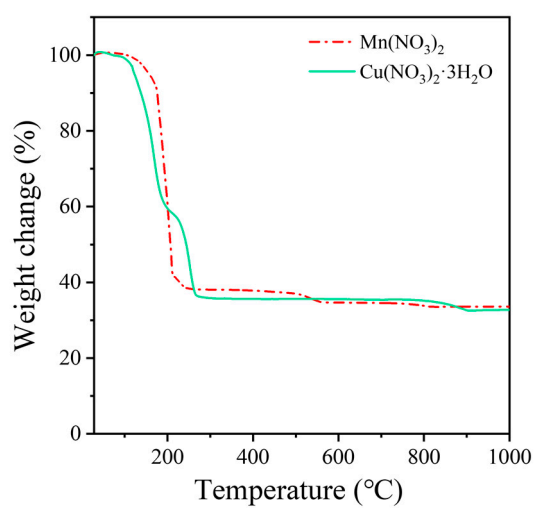
**Figure S2.** CO conversion (a) and  $CO_2$  selectivity (b) during 10-h CO oxidation on  $0.5Cu-Mn_2O_4$ .



**Figure S3.**  $\text{N}_2$  adsorption isotherms of  $\text{Mn}_2\text{O}_3$ ,  $0.5\text{Cu-Mn}_2\text{O}_4$ , and  $\text{CuO}$ .



**Figure S4.** Relationship of atomic ratios of Cu/(Cu + Mn).



**Figure S5.** Decomposition profiles of  $\text{Mn}(\text{NO}_3)_2$  and  $\text{Cu}(\text{NO}_3)_2 \cdot \text{H}_2\text{O}$ .