

Potassium-promoted Ru-MCM-41 catalyst via in situ loading for effective low-temperature ammonia decomposition

Jingwei Yang, Xiaodong Zhao, Xun Qi, Jie Wen, Hui Zhang**

College of Chemistry and Chemical Engineering Southwest Petroleum University,
Chengdu 610500, China.

Corresponding Author:

E-mail: huizhang@swpu.edu.cn. (H Zhang)

wenjie@swpu.edu.cn. (J Wen)

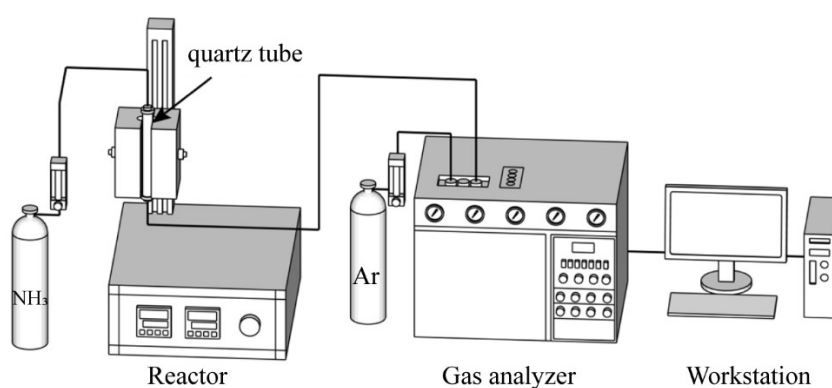
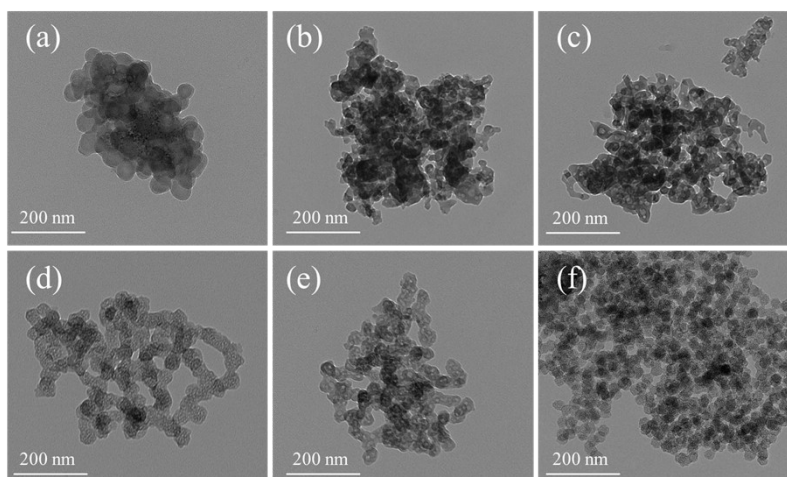


Fig. S1 Ammonia decomposition to hydrogen performance test setup



**Fig. S2 TEM images of K-nRu-MCM-41 catalysts, (a) to (f) represent catalysts
with n from 0 to 5, respectively**

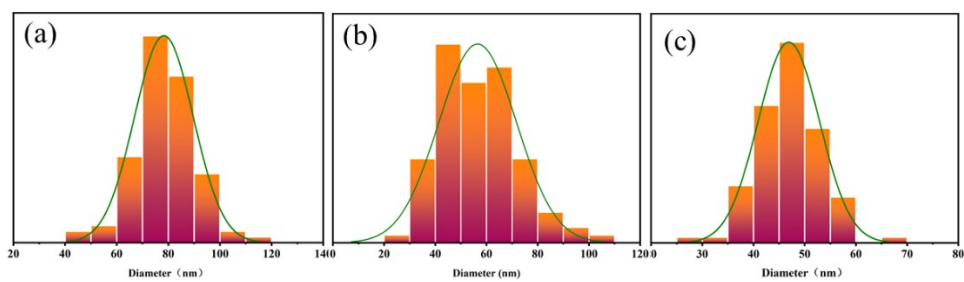


Figure S3 Particle size distribution of MCM-41 (a), 4Ru-MCM-41 (b) and K-4Ru-MCM-41 (c) catalysts