

Electronic Supplementary Information

**Catalytic Hydrodeoxygenation of Palmitic Acid over Bifunctional Co-doped
MoO₂/CNTs Catalyst: Insight into the Promoting Effect of Cobalt**

Ranran Ding^a, Yulong Wu^{a,b*}, Yu Chen^a, Hao Chen^c, Jianlong Wang^a, Yanchun Shi^a, Mingde Yang^a

^aInstitute of Nuclear and New Energy Technology, Tsinghua University, Beijing 100084, PR China

^bBeijing Engineering Research Center for Biofuels, Beijing 100084, PR China

^cSchool of chemical engineering and technology, Xi'an Jiaotong University, Xi'an 710049, PR China

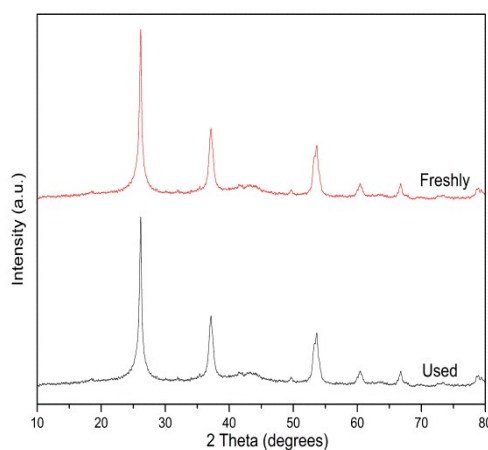


Figure S1. XRD patterns of freshly prepared and used ten times CoMo-500 catalyst.

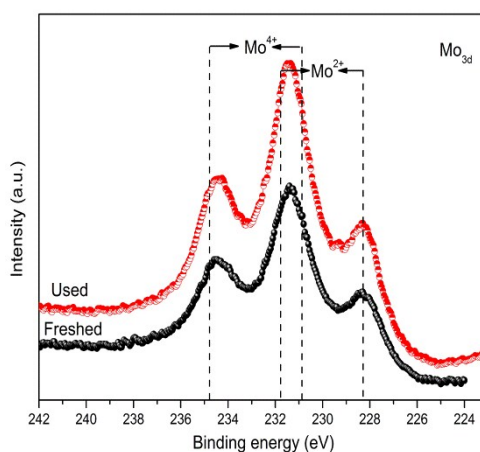


Figure S2. Mo3d XPS of freshly prepared and used ten times CoMo-500 catalyst.

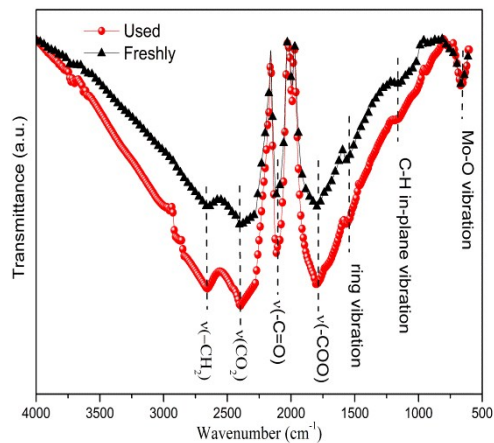


Figure S3. FT-IR patterns of freshly prepared and used ten times CoMo-500 catalyst.

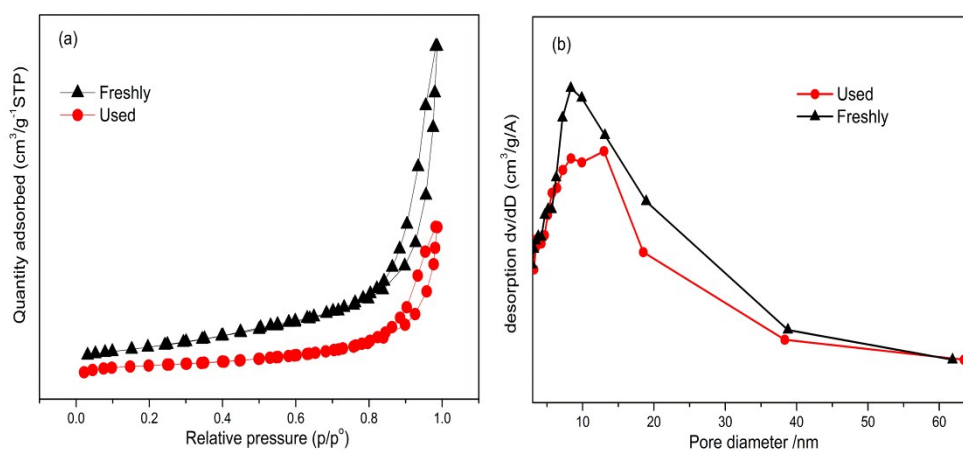


Figure S4. (a) N_2 sorption-desorption isotherms and (b) pore size distributions of freshly prepared and used ten times CoMo-500 catalyst.