## Supporting Information

# Fe-Ce mixed oxides supported on carbon nanotubes for simultaneous removal of NO and $Hg^0$ in flue gas

**Yaguang Ma, Dingyuan Zhang, Huamin Sun, Jiafeng Wu, Peng Liang, Huawei Zhang***

**College of Chemical and Environmental Engineering, Shandong University of Science and Technology, Qingdao 266590 PR China**

**Correspondence information: Huawei Zhang**

**Qingdao 266590, China. E-mail: sdkdzhw@163.com, tel:+86 13806399945**

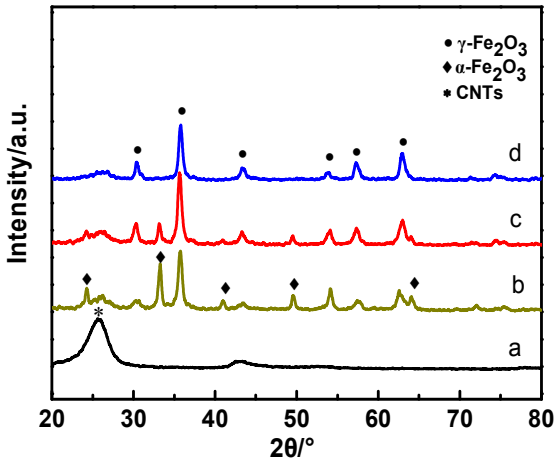


**Figure S1.** XRD spectra of different catalysts: (a) MWCNTs, (b) 300 °C treatment temperature of the $Fe_{(10)}O_x$/MWCNTs catalyst, (c) 350 °C treatment temperature of the $Fe_{(10)}O_x$/MWCNTs catalyst, (d) 400 °C treatment temperature of the $Fe_{(10)}O_x$/MWCNTs catalyst.

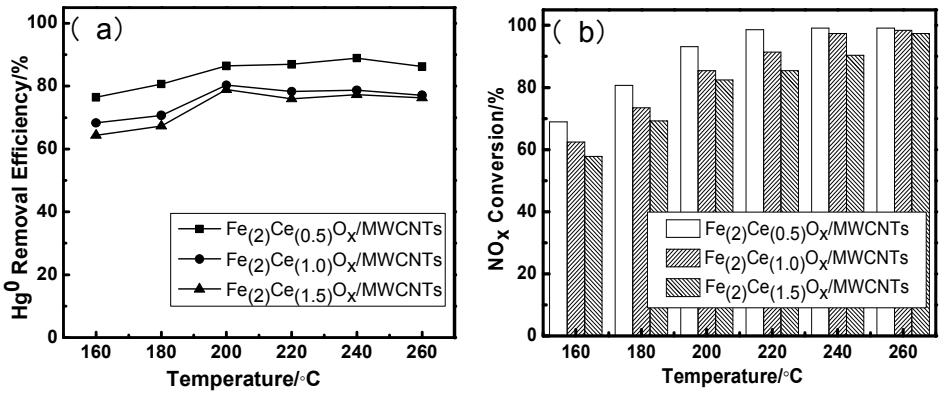


**Figure S2.** Effect of different amounts of Ce doping catalysts on simultaneous removal of NO and $Hg^0$: (a) $Hg^0$ removal efficiency; (b) $NO_x$ conversion.

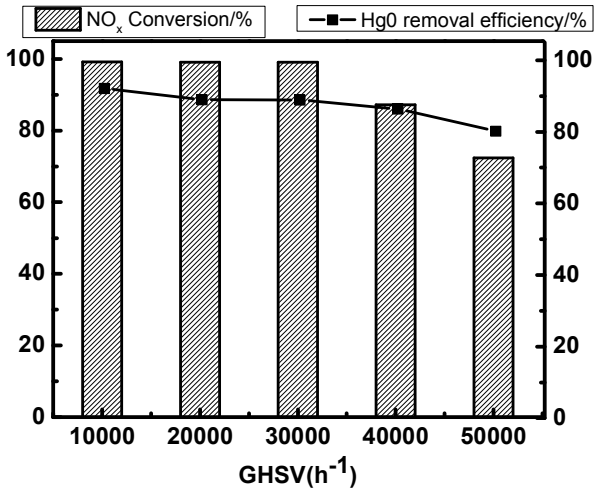


**Figure S3.** The effect of different space velocities for Simultaneous Removal of NO and $Hg^0$ by $Fe_{(2)}Ce_{(0.5)}O_x$/MWCNTs catalyst at 240 °C.

## ACKNOWLEDGMENTS

This work was supported by the National Natural Science Foundation of China (Grant 51406107), the Key Research and Development Program of Shandong Province (Grant 2017GSF17101).