Structural evaluation and catalytic performance of nano-Au supported on nanocrystalline Ce$_{0.9}$Fe$_{0.1}$O$_{2-\delta}$ solid solution for oxidation of carbon monoxide and benzyamine

P. Sudarsanam,a,b P. R. Selvakannan,b Sarvesh K. Soni,b Suresh K. Bhargava,*b and Benjaram M. Reddy*a

a Inorganic and Physical Chemistry Division, CSIR–Indian Institute of Chemical Technology, Uppal Road, Hyderabad – 500 007, India.

b Centre for Advanced Materials and Industrial Chemistry (CAMIC), School of Applied Sciences, RMIT University, Melbourne VIC 3001, Australia.

*Author to whom correspondence should be addressed. Phone: +91 40 2719 3510. Fax: +91 40 2716 0921. E–mail: bmreddy@iict.res.in; suresh.bhargava@rmit.edu.au
**Fig. S1** TEM image of the CeO$_2$-Fe$_2$O$_3$ sample.
Fig. S2 TG-DTA profiles of the Au/CeO$_2$ (AC) and Au/CeO$_2$-Fe$_2$O$_3$ catalysts.
Fig. S3 Fe 2p XPS spectrum of the CeO$_2$-Fe$_2$O$_3$ sample.