Three-dimensional flower-like OMS-2 supported Ru catalysts for the application in combustion reaction of o-dichlorobenzene

Sai Yang[a,b], Haijun Zhao[a], Fang Dong[a], Zhicheng Tang[a*], Fei Zha[b]

(a. State Key Laboratory for Oxo Synthesis and Selective Oxidation, and National Engineering Research Center for Fine Petrochemical Intermediates, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, Lanzhou, 730000, China

b. College of Chemistry and Chemical Engineering, Northwest Normal University, Lanzhou 730070, China)

[*]Corresponding author:

Tel.: +86–931–4968083, Fax: +86–931–4968019, E–mail address: tangzhicheng@licp.cas.cn (Z. Tang).

Table S1 Textural properties of Ru/OMS-2 catalysts

Samples	S_{BET} (m^2 g^{-1})[a]	Vp (cm^3 g^{-1})[b]	D_{BJH} (nm)[c]
Ru/OMS-2-C_{low}	10.22	0.043	39.12
Ru/OMS-2-C_{mid}	12.29	0.058	15.47
Ru/OMS-2-C_{hig}	16.86	0.089	20.36

[a] Determined by BET Surface Area.

[b] Adsorbed volume at $P/P_0 = 0.995$.

[c] Determined by desorption branch.

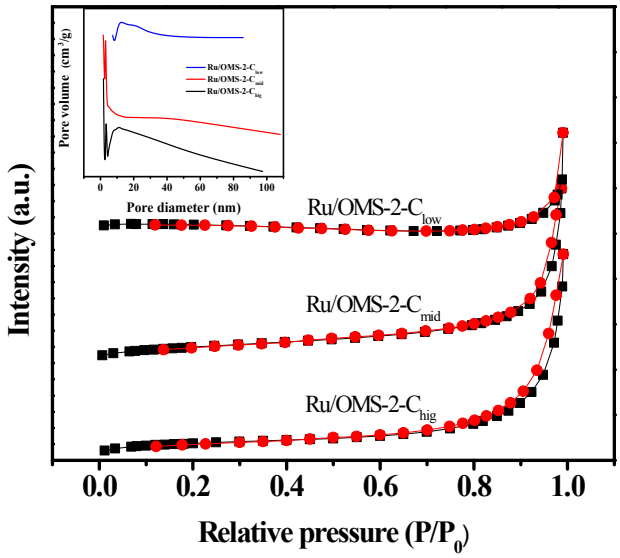

Fig. S1 N_2 adsorption-desorption isotherm and pore size distribution plots (inset) of catalysts.

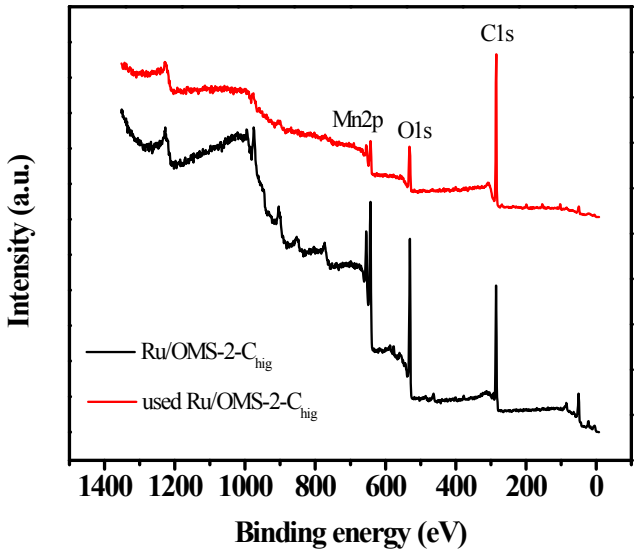

Fig. S2 Survey spectra of fresh and used Ru/OMS-2-C_{hig} for XPS.