Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Strong metal-support interactions between atomically dispersed Ru and CrO_x for improved durability of chlorobenzene oxidation

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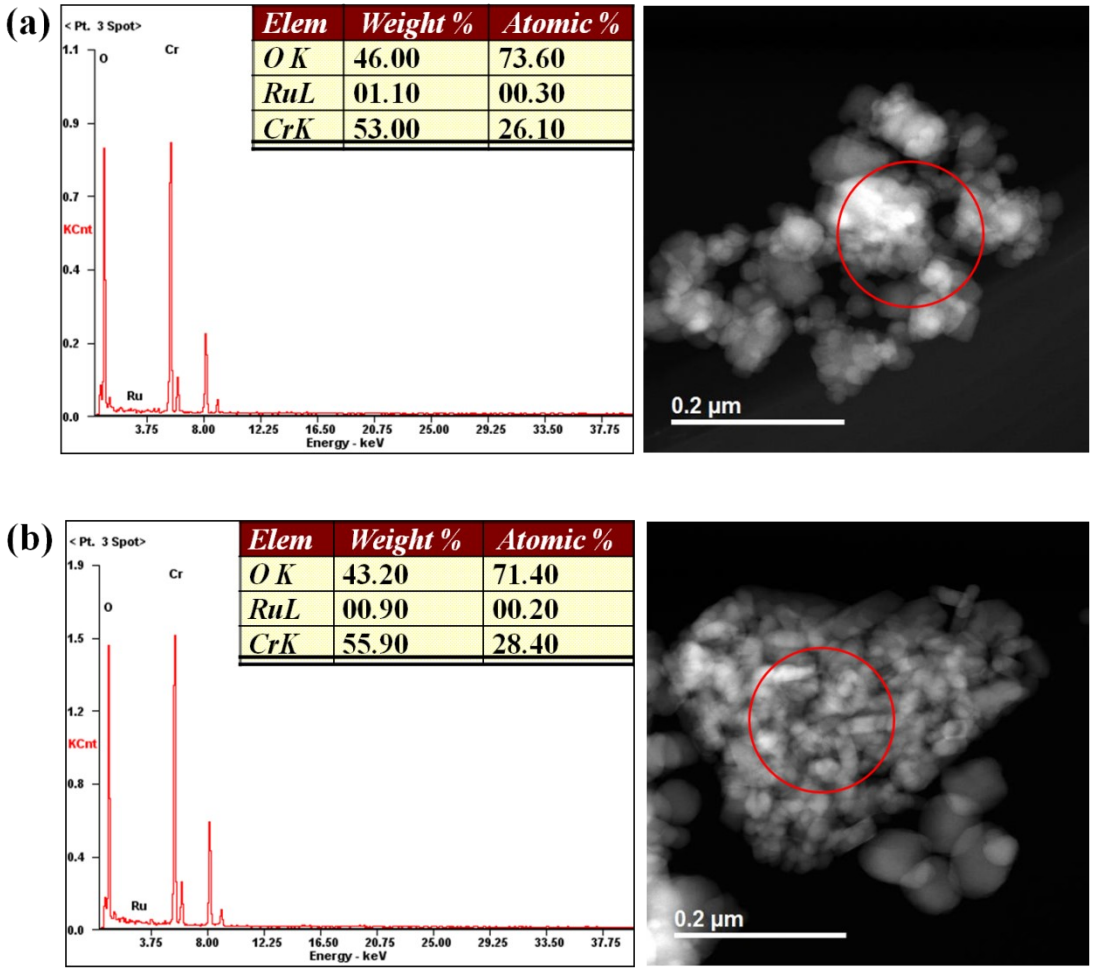

Fig. S1 EDS analysis of catalysts: (a) 1RuCr$_2$O$_3$-P, (b) 1RuCr$_2$O$_3$-M.

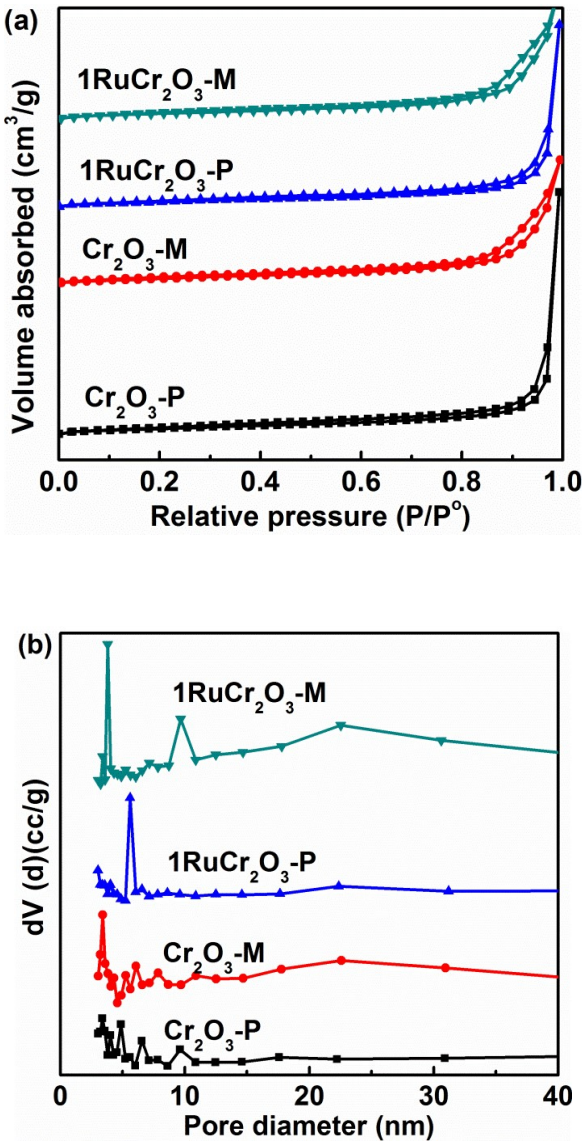

Fig. S2 Nitrogen adsorption-desorption isotherms (a) and pore-size distributions (b) of samples.

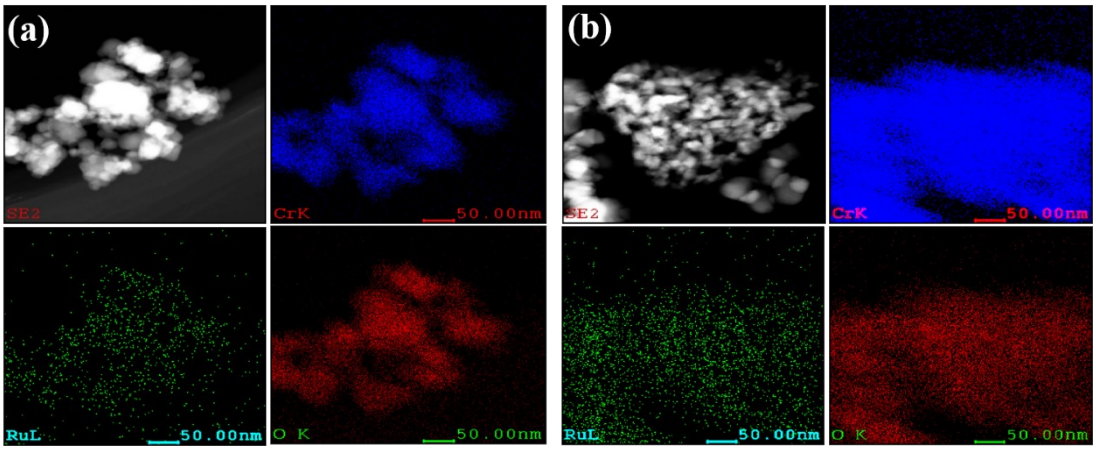

Fig. S3 Elements mapping images of $1RuCr_2O_3$-P (a) and $1RuCr_2O_3$-M (b).

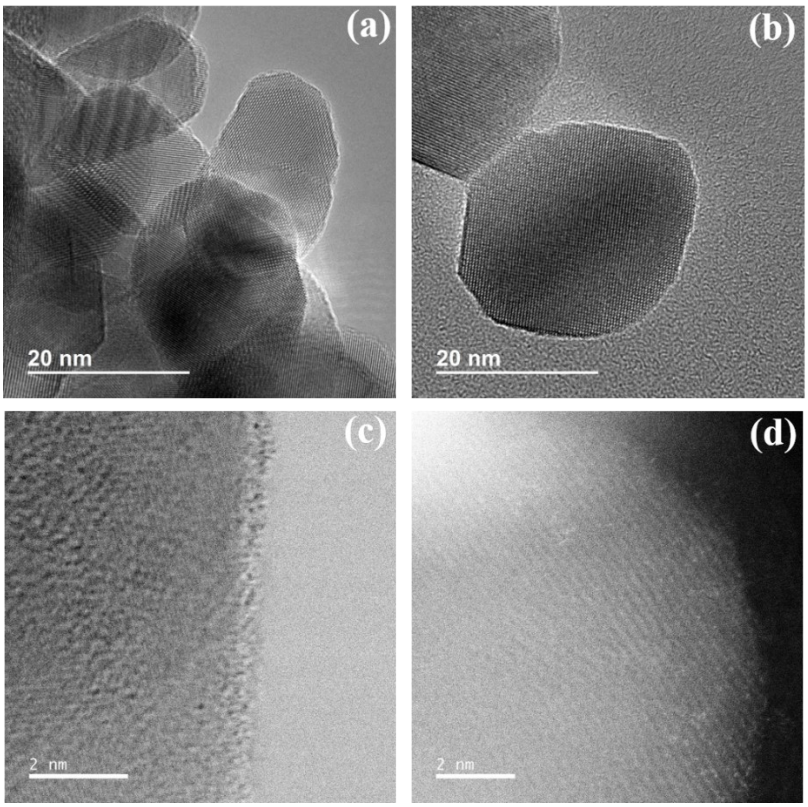

Fig. S4 HRTEM and Cs-corrected STEM images of 1$RuCr_2O_3$-M after being used in dry and humid conditions: (a and c, HRTEM and Cs-corrected STEM image of used 1$RuCr_2O_3$-M in dry condition); (b and d, HRTEM and Cs-corrected STEM image of used 1$RuCr_2O_3$-M in dry condition).