

Supplementary Information

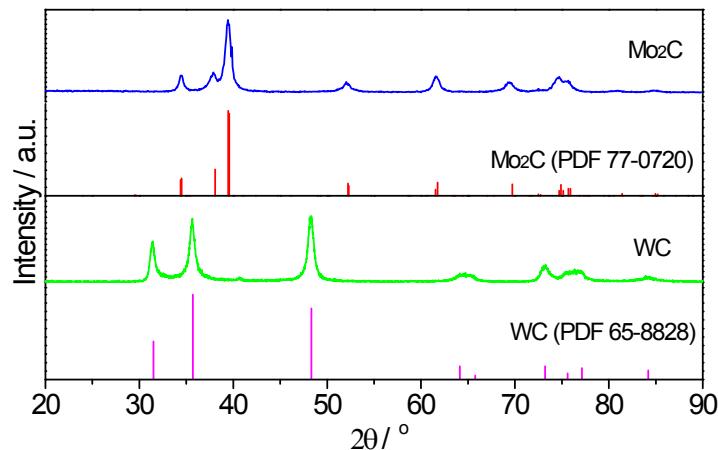


Fig. S1 XRD patterns of Mo₂C and WC prepared by TPR method
(PDF file references are also included).

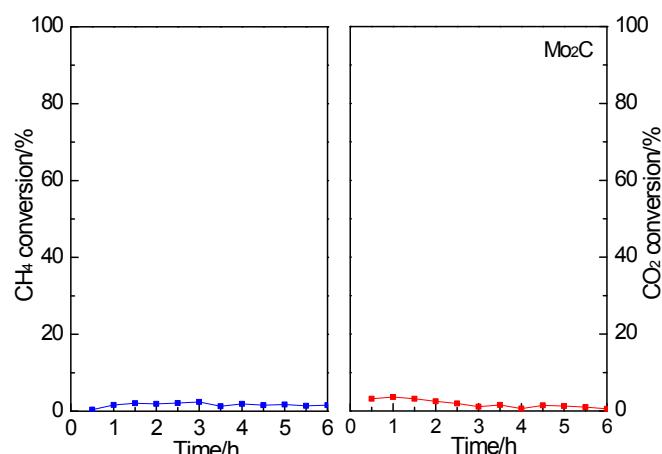


Fig. S2 Lifetime study of Mo₂C in DRM (T=800 °C, P=1 atm, CH₄/CO₂=1, WHSV=6000 cm³ g⁻¹ h⁻¹).

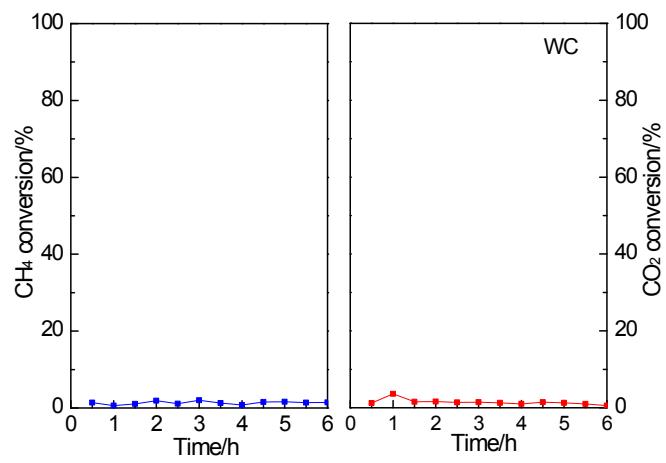


Fig. S3 Lifetime study of WC in DRM ($T=800\text{ }^{\circ}\text{C}$, $P=1\text{ atm}$, $\text{CH}_4/\text{CO}_2=1$, WHSV=6000 $\text{cm}^3 \text{ g}^{-1} \text{ h}^{-1}$).