Electronic Supplementary information:

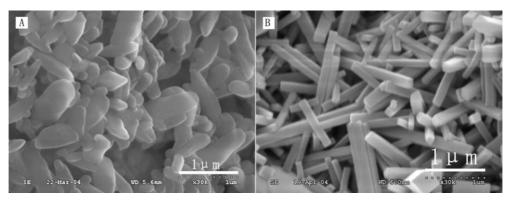


Fig. 1S SEM images of the mullite synthesized at 1200 °C for 5h, the amount of WO₃ catalyst is (A) molar ratio of WO₃ / ACl₃=0, (B) molar ratio of WO₃ / ACl₃=1:2.

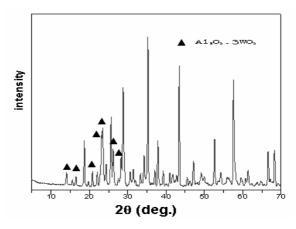


Fig. 2S XRD pattern of mullite precursor calcined at 1000 °C for 5h.

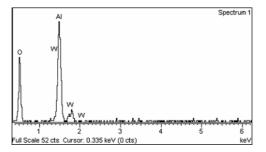


Fig. 3S The analysis of EDX of rod-like precursor calcined at 1000 °C for 5h.

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