

Supporting Information for

Facile synthesis and enhanced catalytic performance of graphene-supported Ni nanocatalyst from a layered double hydroxide based composite precursor

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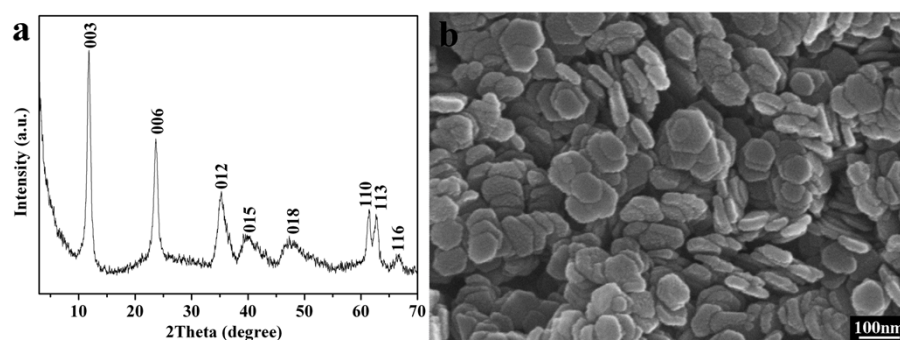


Fig. S1 XRD patterns (a) and SEM image (b) of pure NiAl-LDH

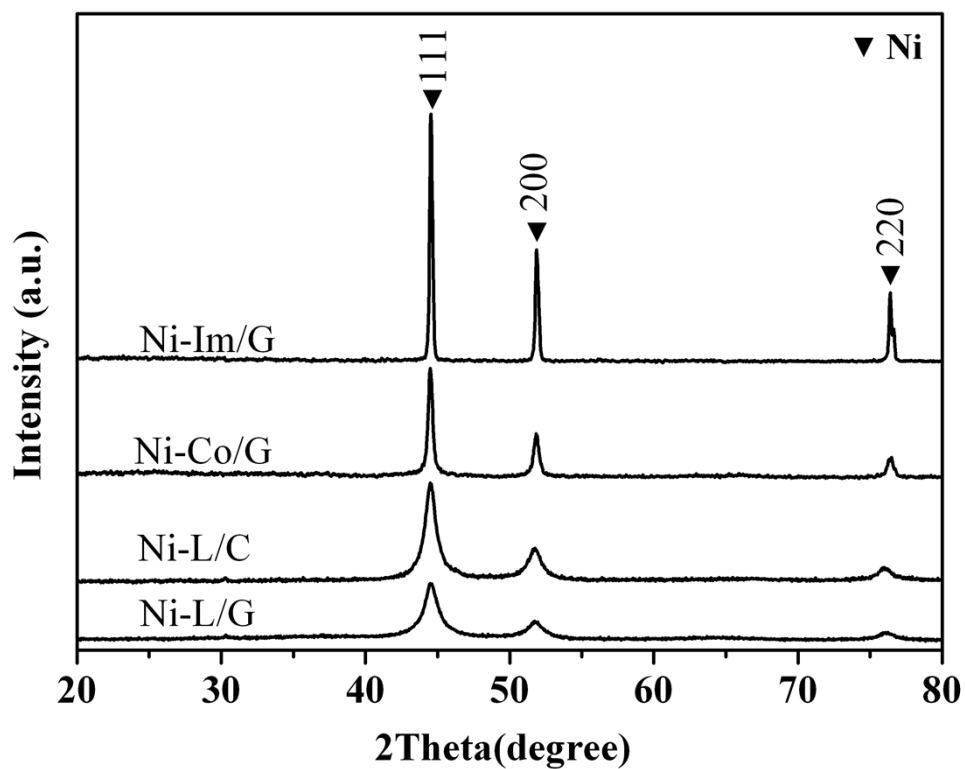


Fig. S2 The XRD patterns of different catalysts.

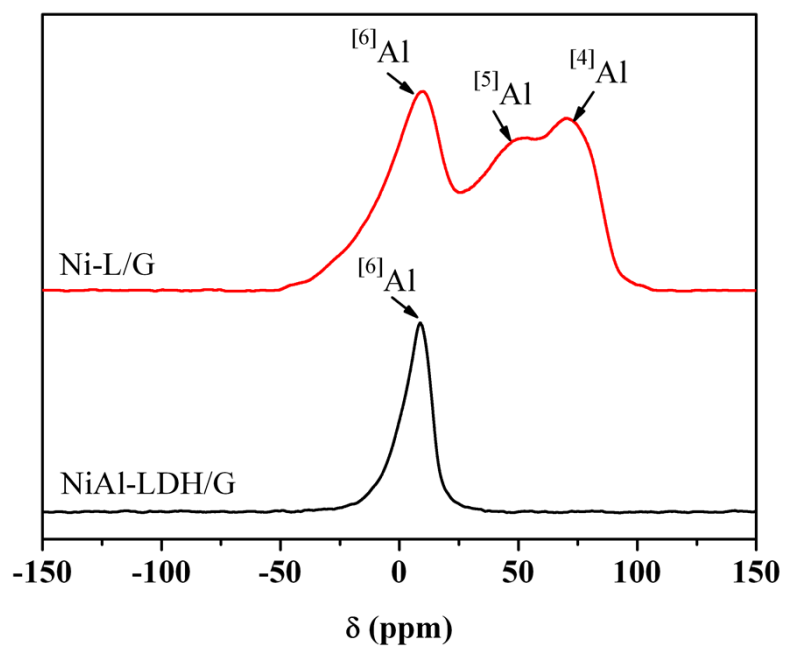


Fig. S3 ^{27}Al NMR spectra of NiAl-LDH/ G and Ni-L/G samples.

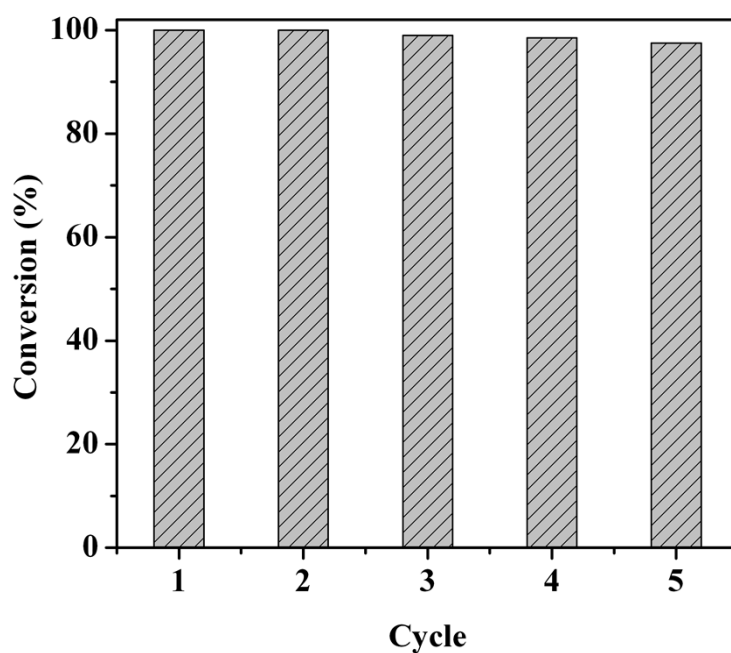


Fig. S4 The reusability of Ni-L/G catalyst for 5 times. Reaction conditions: 0.1 g catalyst; substrate: 3.97 mmol CALD; 50 mL isopropanol; H_2 pressure: 1.0 MPa; temperature: 120 $^\circ\text{C}$; reaction time: 3 h.

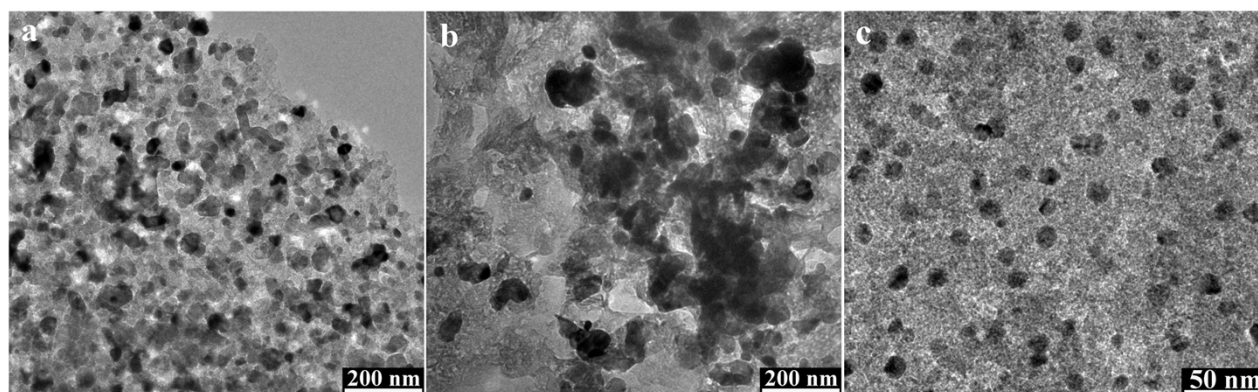


Fig. S5 TEM images of Ni-Co/G (a), Ni-Im/G (b), and Ni-L/C (c).