Electronic Supplementary Material (ESI) for Journal of Materials Chemistry

Synthesis of porous Ni@rGO nanocomposite and its synergetic effect on hydrogen sorption properties of MgH_2

Guang Liu, Yijing Wang,* Fangyuan Qiu, Li Li, Lifang Jiao and Huatang Yuan

Institute of New Energy Material Chemistry, Key Laboratory of Advanced Energy Materials Chemistry (MOE), Tianjin Key Lab on Metal and Molecule-based Material Chemistry, Nankai University, Tianjin 300071, P. R. China

* Corresponding author. E-mail: wangyj@nankai.edu.cn

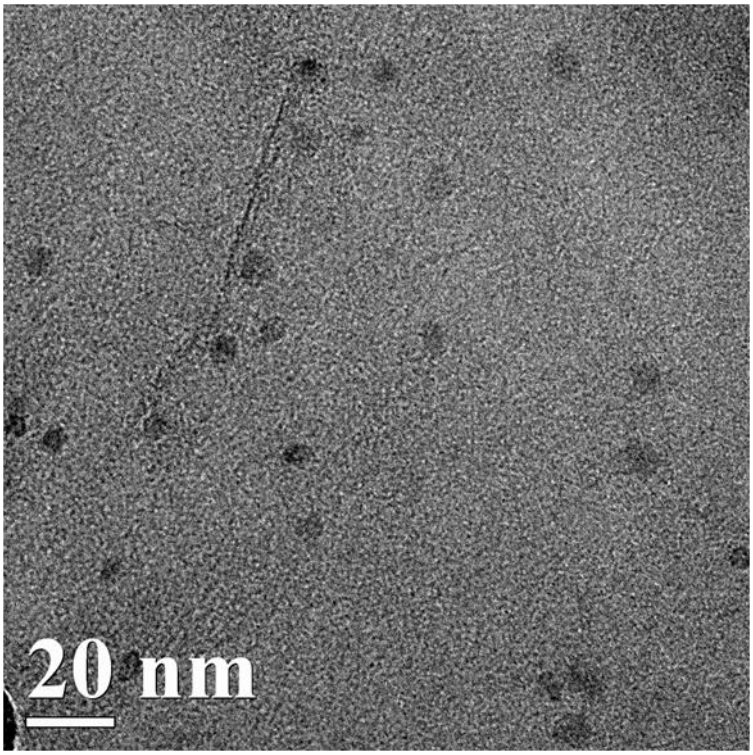

Fig. S1 TEM image of Ni@rGO contains even smaller Ni particles.

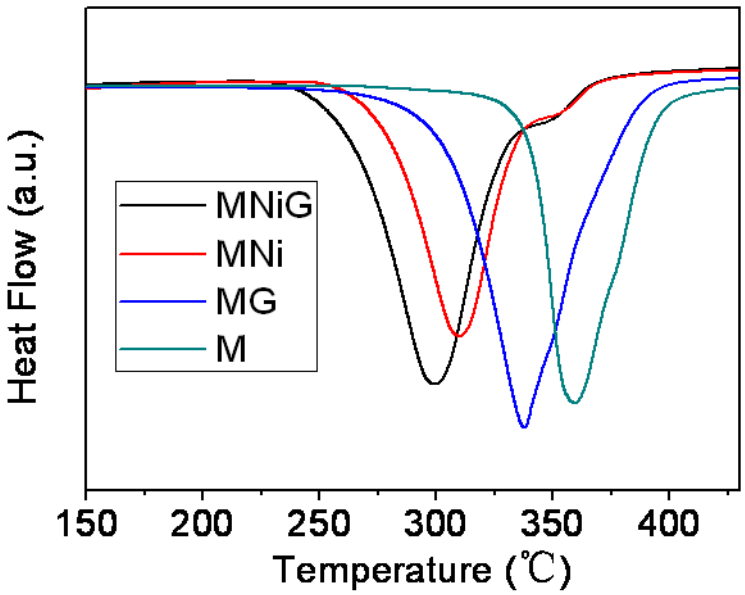

Fig. S2 The representative DSC curves of the different samples. The heating rate was 5 ℃/min.

Table S1 Decomposition peak temperature of different samples determined by DSC

Heating rate (℃)	DSC (℃) for different samples			
	MNiG	MNi	MG	MgH_2
2	283.3	286.7	323	340.7
5	299.8	309.6	338.3	359.3
10	316.8	326.2	350.5	374.5
20	337.3	340.1	365.6	386.3