Electronic Supplementary Information (ESI) for

Enhanced Hydrogen Generation Performance of CaMg$_2$-based Materials by Ball Milling

Miaolian Ma$^{a,b,1}$, Kang Chen$^{b,1}$, Jun Jiang$^b$, Xusheng Yang$^{c,d,*}$, Hui Wang$^b$, Huaiyu Shao$^e,*$, Jiangwen Liu$^b$, Liuzhang Ouyang$^{b,f,*}$

$^a$ School of Chemistry and Chemical Engineering, Hefei University of Technology, Hefei 230009, Anhui, PR China.

$^b$ School of Materials Science and Engineering, Guangdong Provincial Key Laboratory of Advanced Energy Storage Materials, South China University of Technology, Guangzhou 510641, PR China. E-mail: meouyang@scut.edu.cn

$^c$ Advanced Manufacturing Technology Research Centre, Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong, PR China. Email: xsyang@polyu.edu.hk

$^d$ Hong Kong Polytechnic University Shenzhen Research Institute, Shenzhen 518057, PR China

$^e$ Joint Key Laboratory of the Ministry of Education, Institute of Applied Physics and Materials Engineering (IAPME), University of Macau, Macau SAR, PR China. Email: hshao@um.edu.mo

$^f$ China-Australia Joint Laboratory for Energy & Environmental Materials, Key Laboratory of Fuel Cell Technology of Guangdong Province, Guangzhou, 510641, PR China

$^1$ These authors contributed equally to this work.
Fig. S1 XRD patterns of CaMg$_2$-0.1Ni milled for 10 h.
Fig. S2 SEM images (a) 0.5 h-milled CaMg$_2$-0.1Ni and (b) 1.5 h-milled CaMg$_2$-0.1Ni.