Supporting information

A sinteractive Ni-BaZr$_{0.8}$Y$_{0.2}$O$_{3-\delta}$ composite membrane for hydrogen separation

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Fig. S1 Surface SEM image and EDX spectra of BZYNiO2 pellet calcined at 1400°C for 10h.

Fig. S2 Cross-section SEM image of BZYNiO2 pellet calcined at 1300°C for 10h.
Fig. S3 XRD patterns of BZY20 prepared by solid state reaction method and Ni-BZY20 after treatment at 1300°C for 10h and 1440°C for 20h in N₂ and 20h in 5%H₂, respectively. BaCO₃ can be seen at ~24°.