



Fig. S1 NH_3 conversion for ammonia decomposition over (a) x wt.% MgO-40 wt.% Ni/ Y_2O_3 , (b) x wt.% CaO-40 wt.% Ni/ Y_2O_3 , (c) x wt.% SrO-40 wt.% Ni/ Y_2O_3 , and (d) x wt.% BaO-40 wt.% Ni/ Y_2O_3 ($x = 0, 5, 10, \text{ and } 20$). Reaction conditions; NH_3 100%, $W/F = 0.60 \text{ g s cm}^{-3}$.