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Fig. S1 ESR spectrum of 2.0 wt% NiTi-LDH.

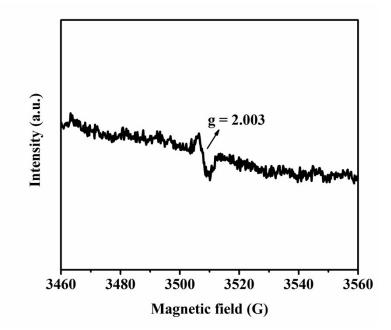


Fig. \$2 XPS spectrum of NiTi-LDH in O 1s region.

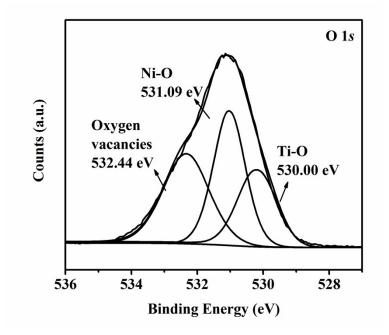


Fig. \$3 XPS spectrum of NiTi-LDH in Ti 2p region.

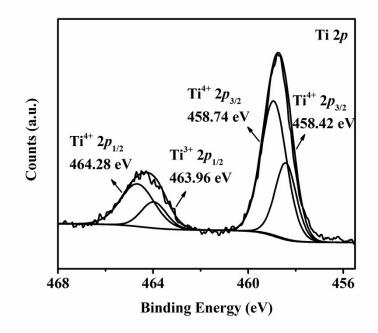


Fig. S4 XPS spectrum of NiTi-LDH in Ni 2p region.

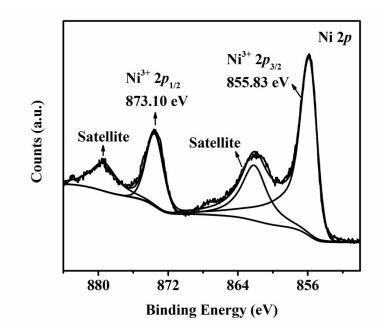


Fig. \$5 (a) SEM and (b) TEM images of 2.0 wt% Pd/NiTi-LDH.

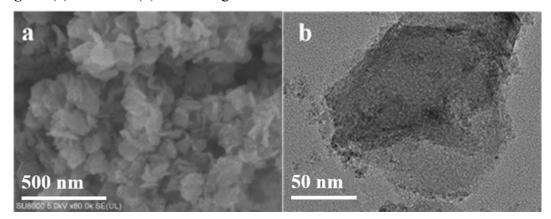


Fig. S6 Zeta potentials of NiTi-LDH.

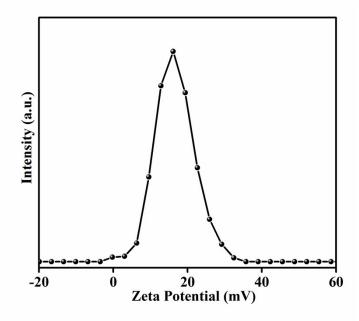


Fig. S7 Post-mortem TPD spectra revealing the desorption of active H from the used 2.0 wt% Pd/NiTi-LDH recovered from the reaction system using (a) bare benzyl alcohol and (b) a mixed solvent of benzyl alcohol/acetonitrile (5:1) as the solvent.

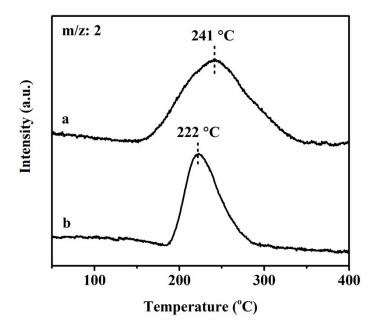


Fig. S8 FT-IR spectra of NiTi-LDH and urea.

