

## Supporting Information

Nanoscale Tungsten Nitride/Nitrogen-Doped Carbon as an Efficient non-noble Metal Catalyst for Hydrogen and Oxygen Recombination at Room Temperature in Nickel-Iron Battery

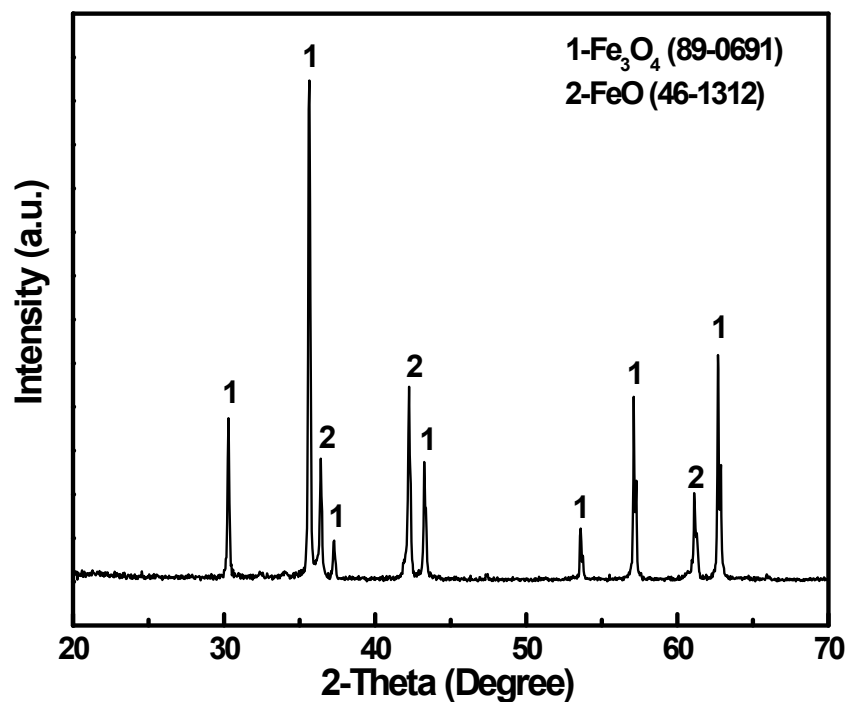


Fig. S1 XRD pattern of the powders from Sichuan CHANGHONG Battery Co., Ltd

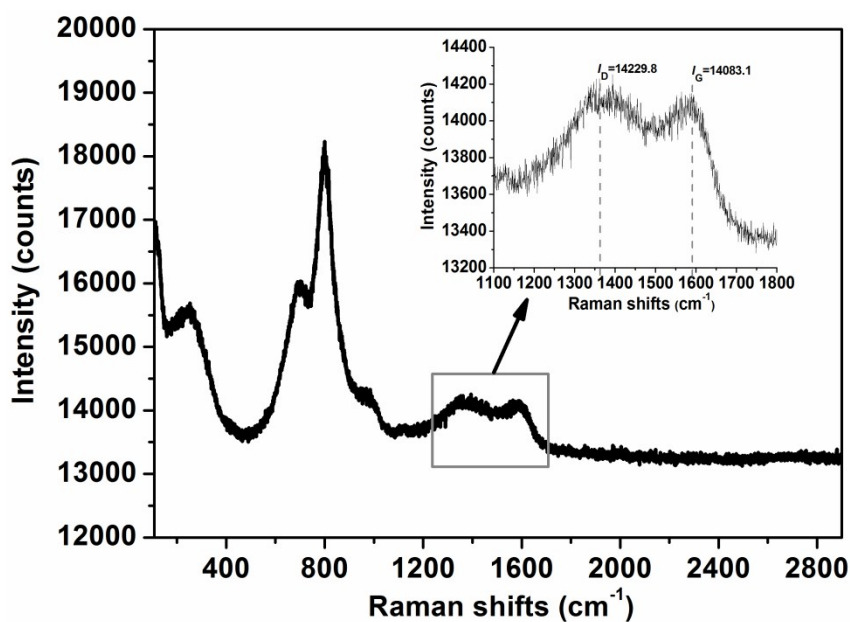


Fig. S2 Raman spectrum of the WN catalyst

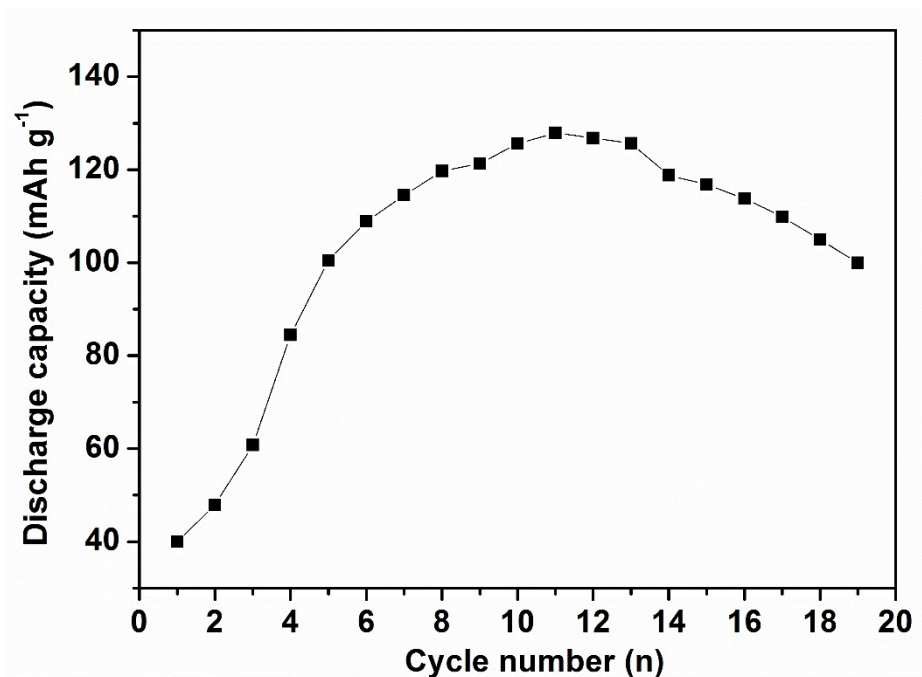


Fig. S3 The cycle performance of the nickel-iron battery without catalyst

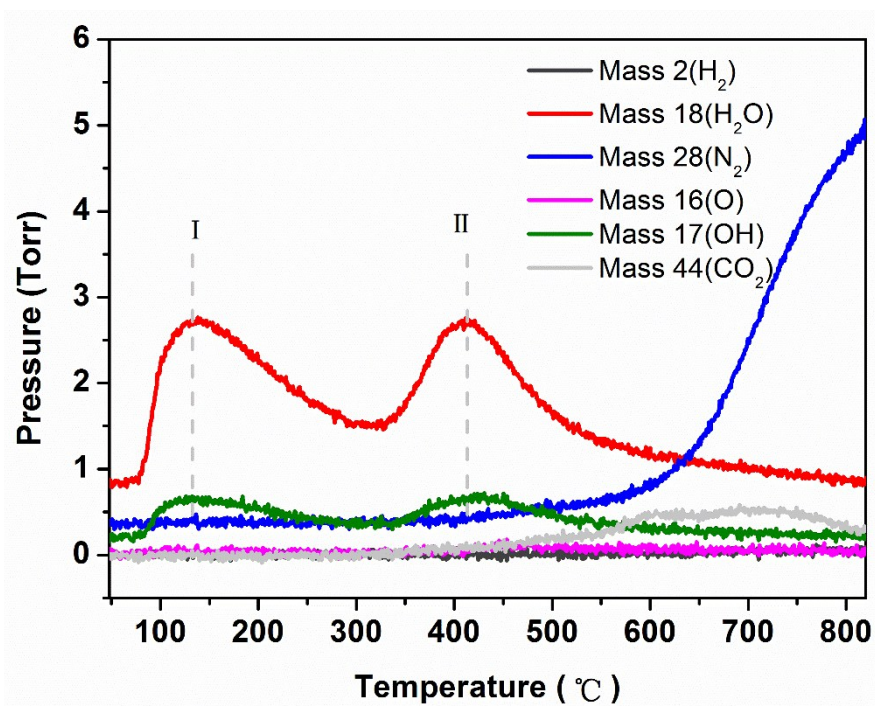


Fig. S4 TPD-MS of the WN/NC catalyst.

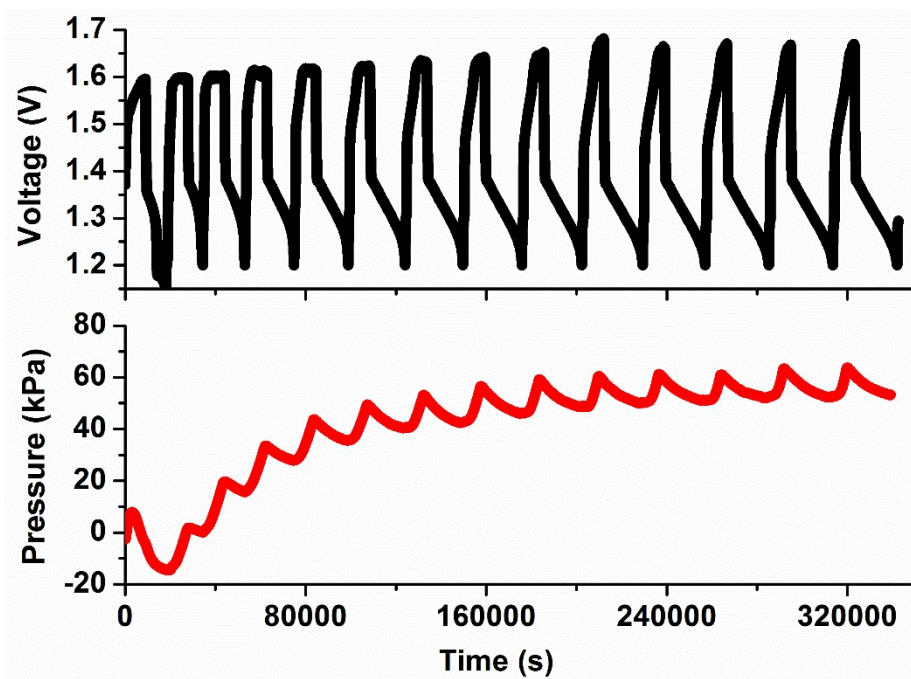


Fig. S5 The pressure versus state-of-charge results of a nickel-iron battery with WN/NC catalyst: 1<sup>st</sup>~ 14<sup>th</sup> cycles