

Supporting Information

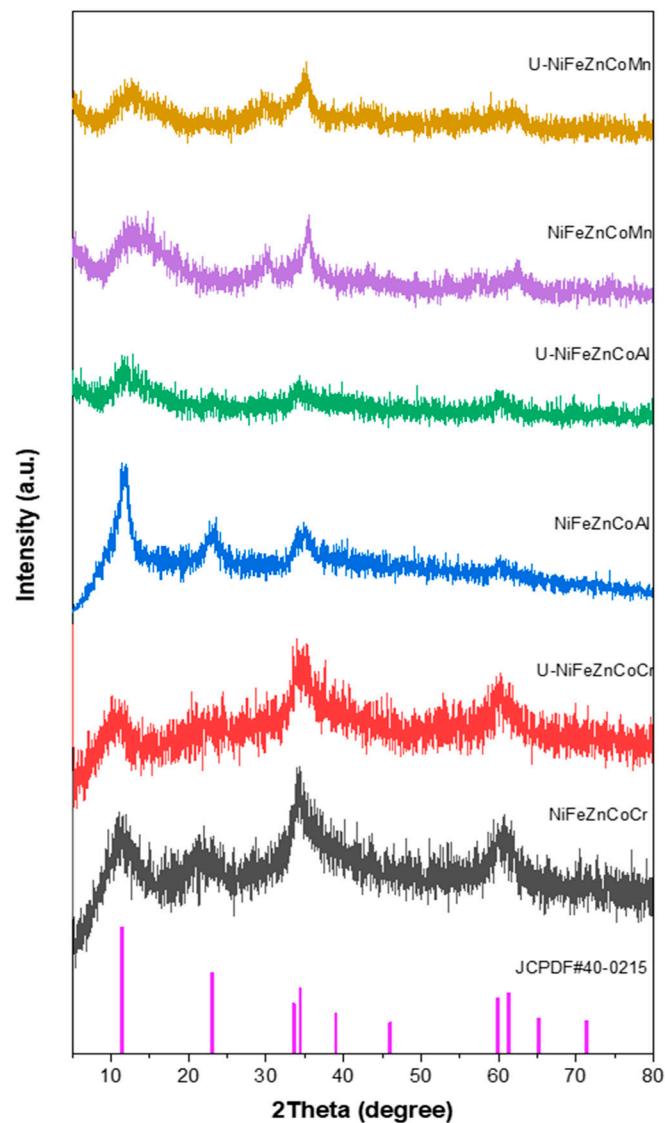


Figure S1. XRD patterns of NiFeZnCoCr-LDH, NiFeZnCoMn-LDH, NiFeZnCoAl-LDH, U-NiFeZnCoCr-LDH, U-NiFeZnCoMn-LDH, and U-NiFeZnCoAl-LDH.

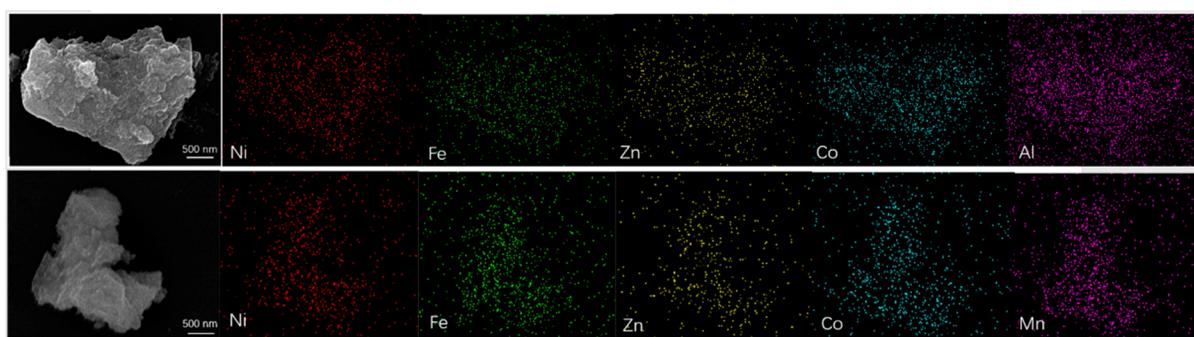


Figure S2. EDS-Mapping of U-NiFeZnCoCr-LDH and U-NiFeZnCoMn-LDH.

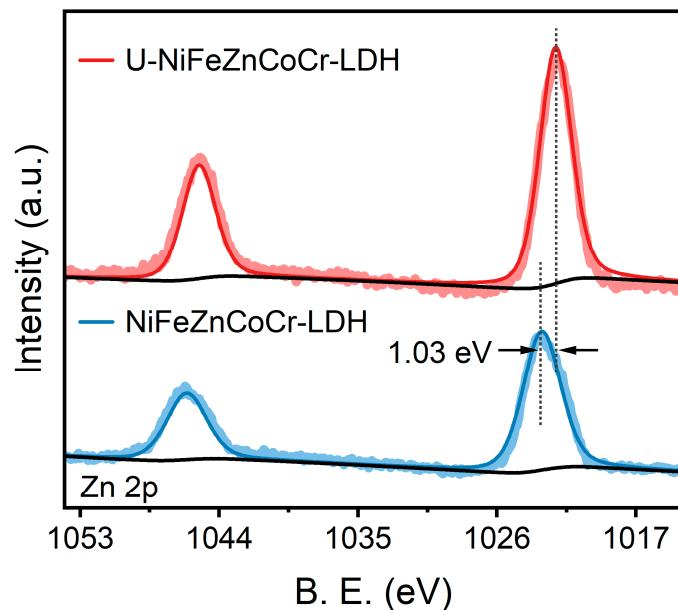


Figure S3. High-resolution Zn 2p XPS.

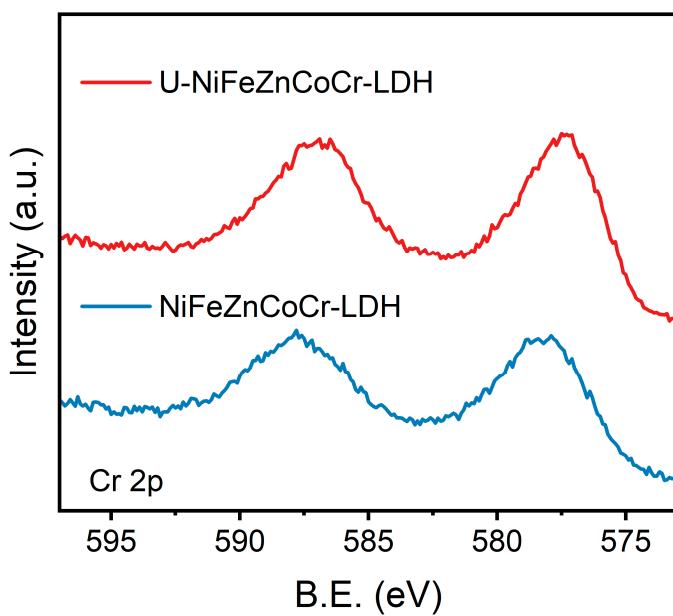


Figure S4. High-resolution Cr 2p XPS.

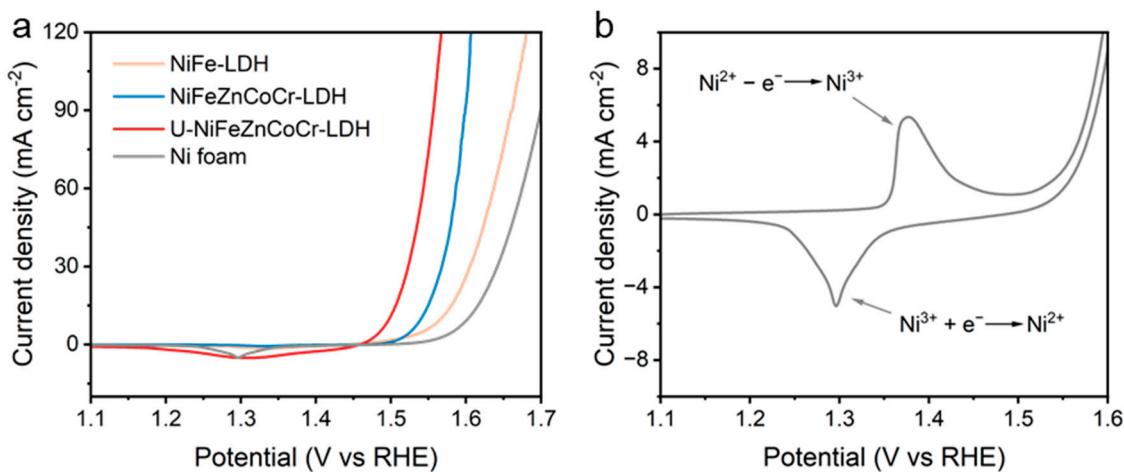


Figure S5. (a) Polarization curves of NiFe-LDH, NiFeZnCoCr-LDH, U- NiFeZnCoCr-LDH and Ni foam. (b) The redox peaks of Ni foam.

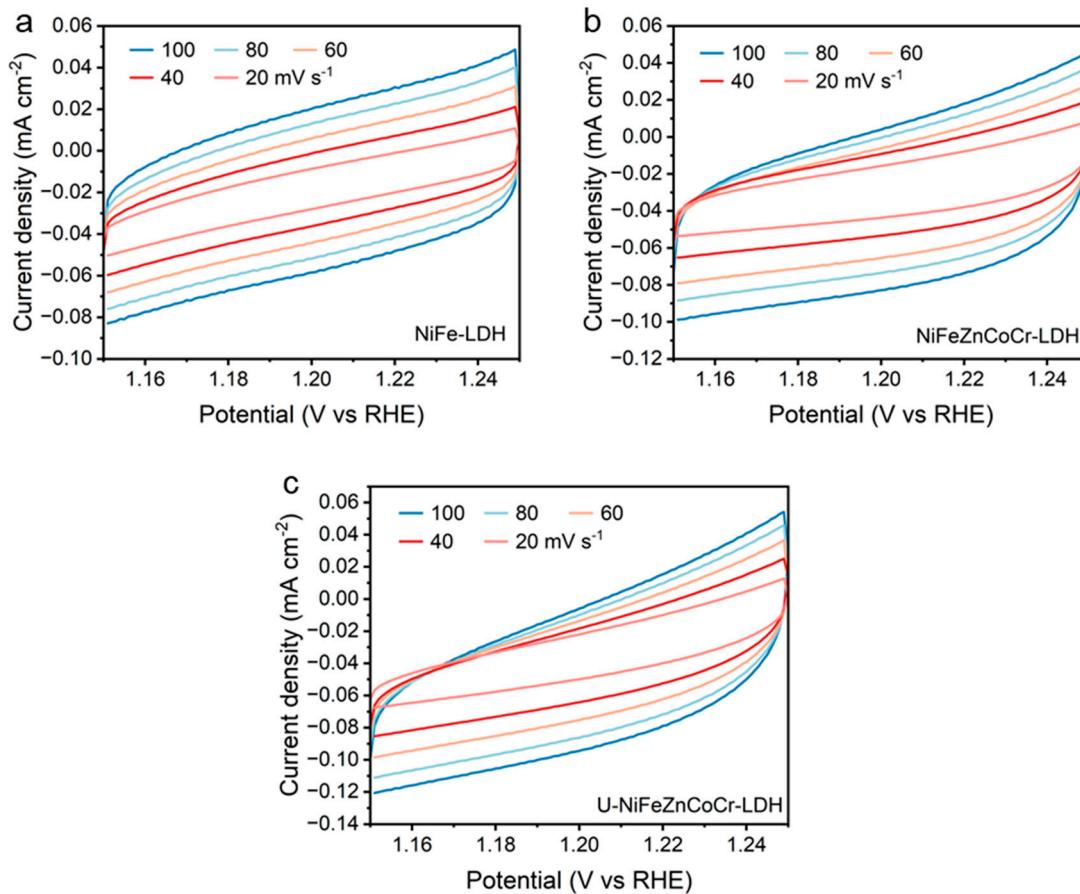


Figure S6. The polarization curves of NiFe-LDH, NiFeZnCoCr-LDH and U-NiFeZnCoCr-LDH for estimate the C_{dl} and ECSA.

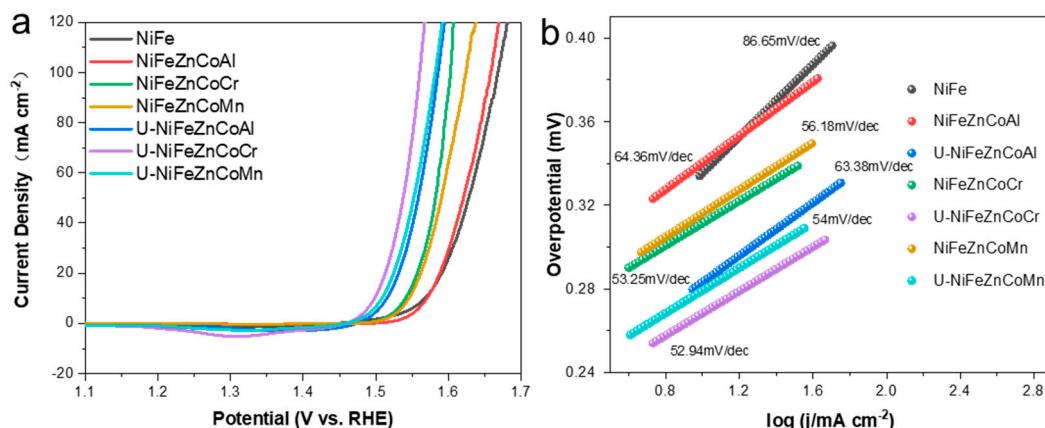


Figure S7. (a) Polarization curves, (b) Tafel slope of NiFe-LDH, NiFeZnCoCr-LDH, NiFeZnCoMn-LDH, NiFeZnCoAl-LDH, U-NiFeZnCoCr-LDH, U-NiFeZnCoMn-LDH, and U-NiFeZnCoAl-LDH.