Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary Materials

LDH-assisted Growth of FeCo Bimetal-MOF Nanorods for Electrocatalytic Oxygen Evolution

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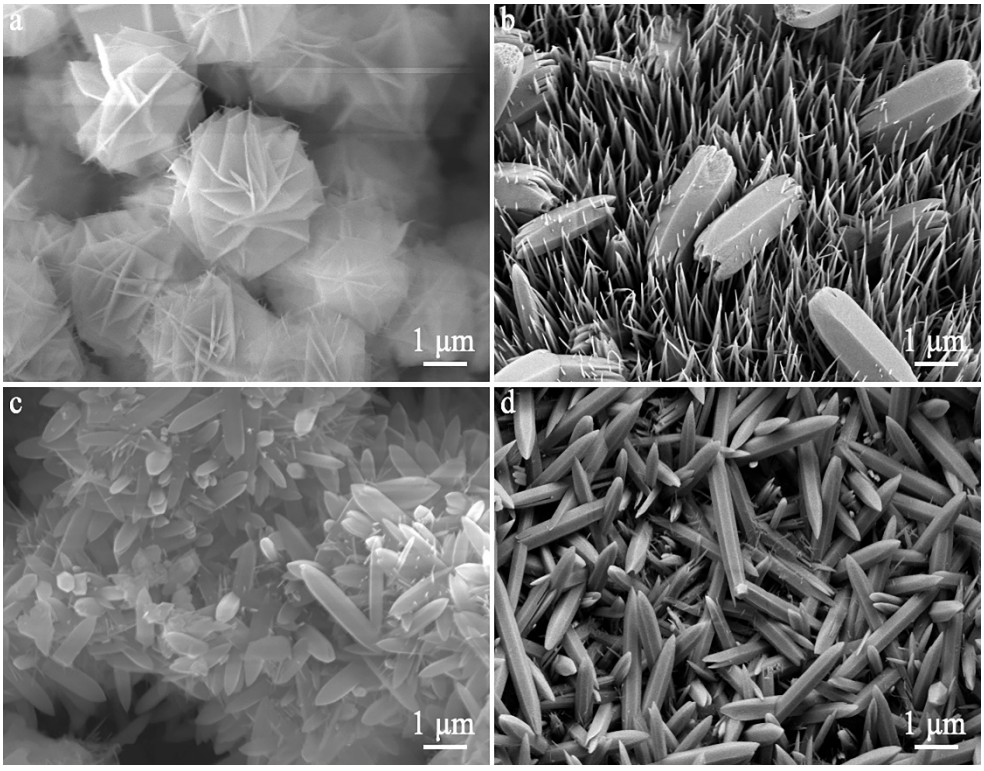

Fig. S1 SEM images of (a) FeCo-LDH, (b) TMOF2-48, (c) TMOF4-48 and (d) TMOF6-48.

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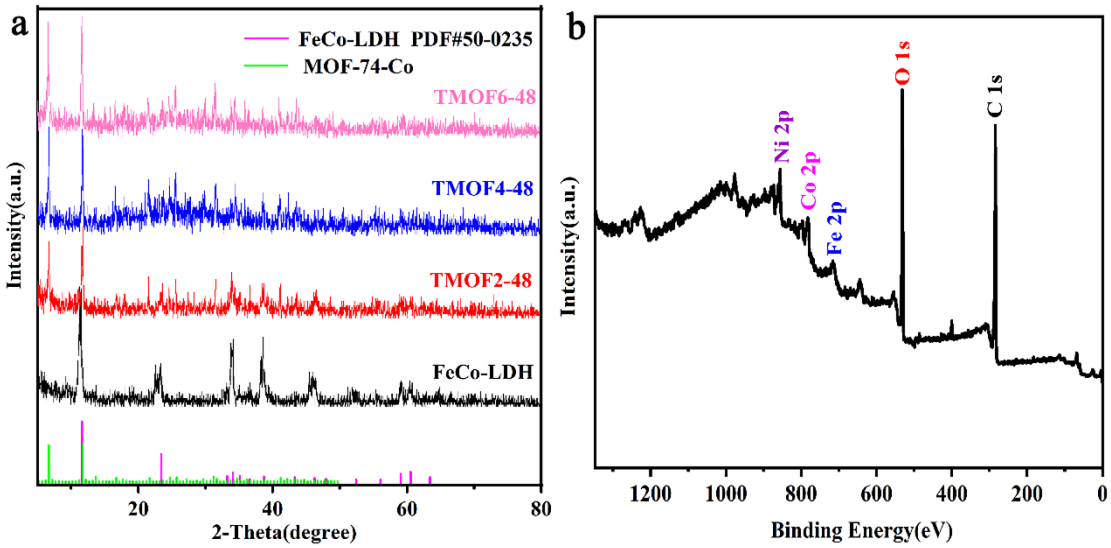

Fig. S2 (a) XRD patterns of FeCo-LDH, TMOF2-48, TMOF4-48 and TMOF6-48. (b) XPS survey spectra of the obtained TMOF4-48.

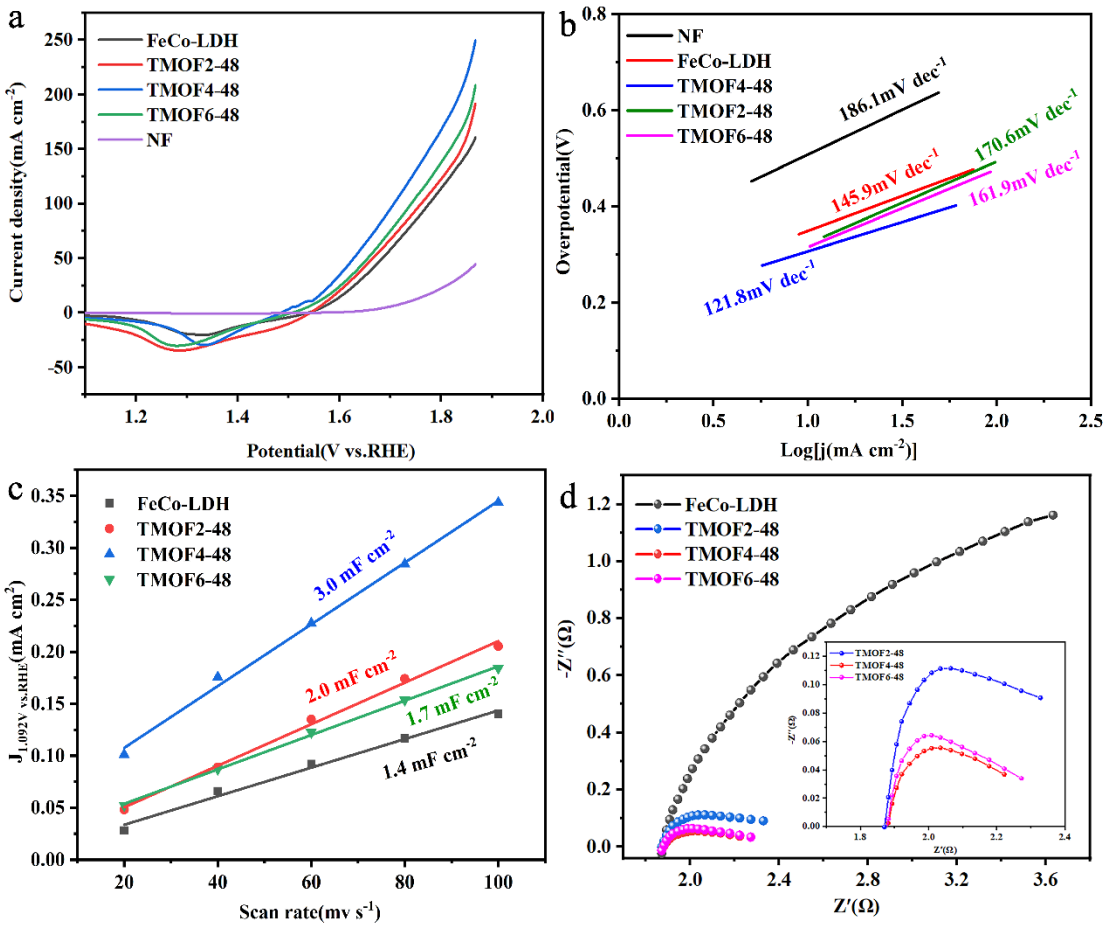

Fig. S3 (a) Polarization curves and (b) The corresponding Tafel plots of OER on the FeCo-LDH, TMOF2-48, TMOF4-48, TMOF6-48 and NF. (c) C_{dl} values of FeCo-LDH, TMOF2-48, TMOF4-48 and TMOF6-48. (d) EIS spectra of prepared catalysts in 1.0 M KOH.

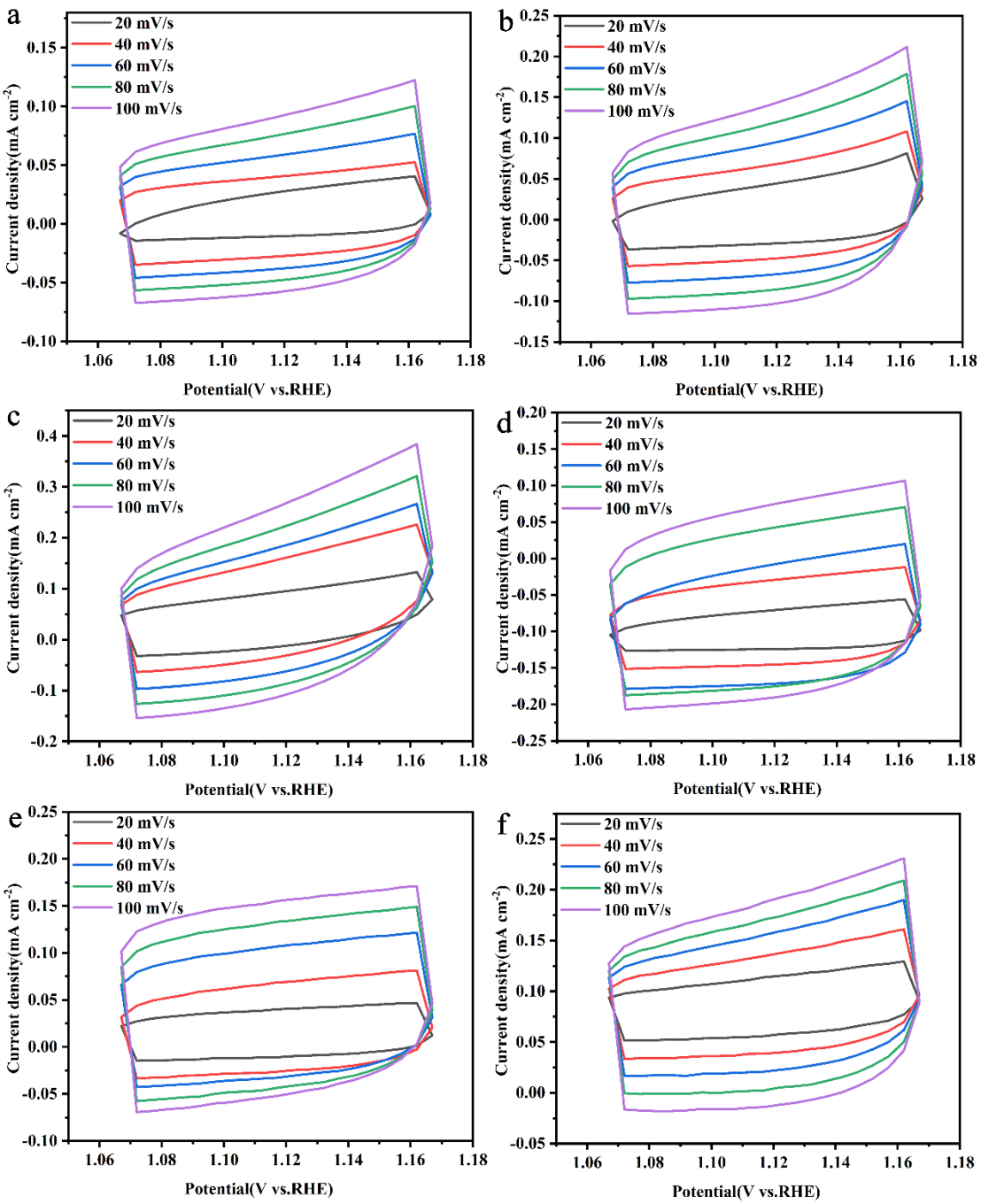

Fig. S4 Cyclic voltammograms of (a) FeCo-LDH, (b) TMOF4-24, (c) TMOF4-48, (d) TMOF4-72, (e) TMOF2-48 and (f) TMOF6-48 in 1.0 M KOH solutions at various scan rates within a potential range of 1.07-1.17 V.