

Electronic Supplementary Information for

Impact of Morphology and Oxygen Vacancy Content in Ni, Fe co-doped Ceia for Efficient Electrocatalyst Based Water Splitting

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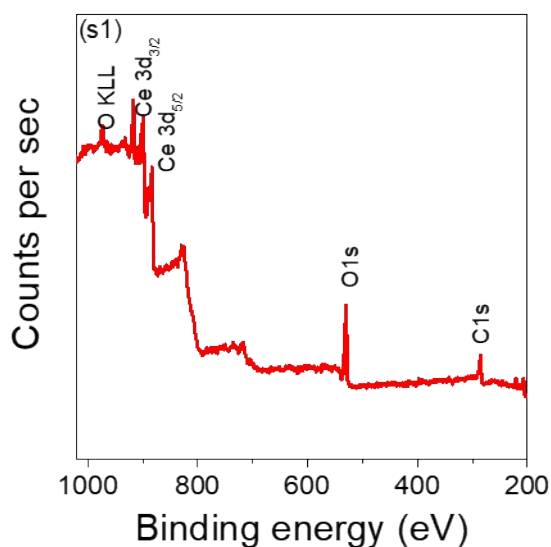


Fig.S1 survey XPS spectrum of pristine CeO₂ nanoplates synthesized by modified solgel method.

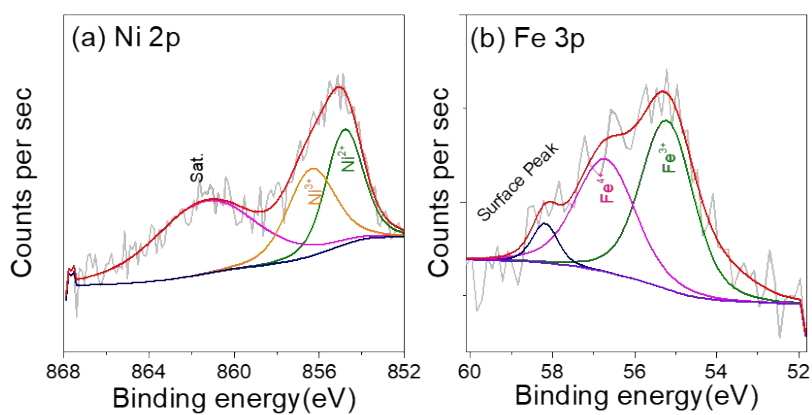


Fig.S2 Region XPS spectra of Ni + Fe co-doped CeO₂ (a) Ni 2p (b) Fe 3p.

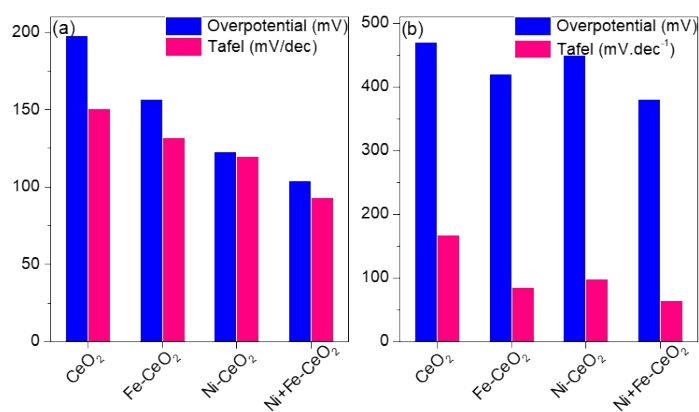


Fig.S3 Histogram for comparison of overpotential η_{10} and Tafel slope of the as-synthesized electrode for (a) HER and (b)OER respectively.

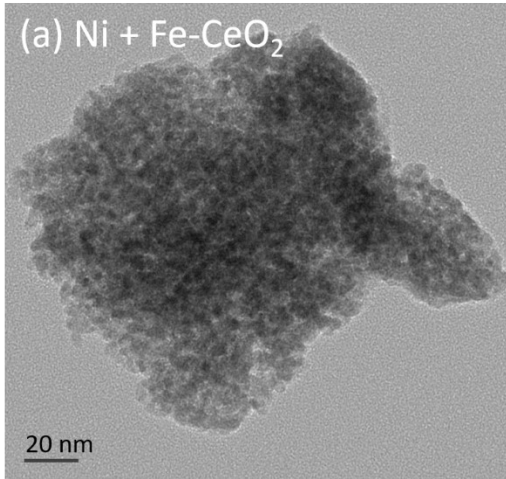


Fig S4. TEM image of Ni + Fe doped CeO₂ samples after HER and OER stability tests for 20 hours at 10 mA cm⁻² and 50 mA cm⁻².

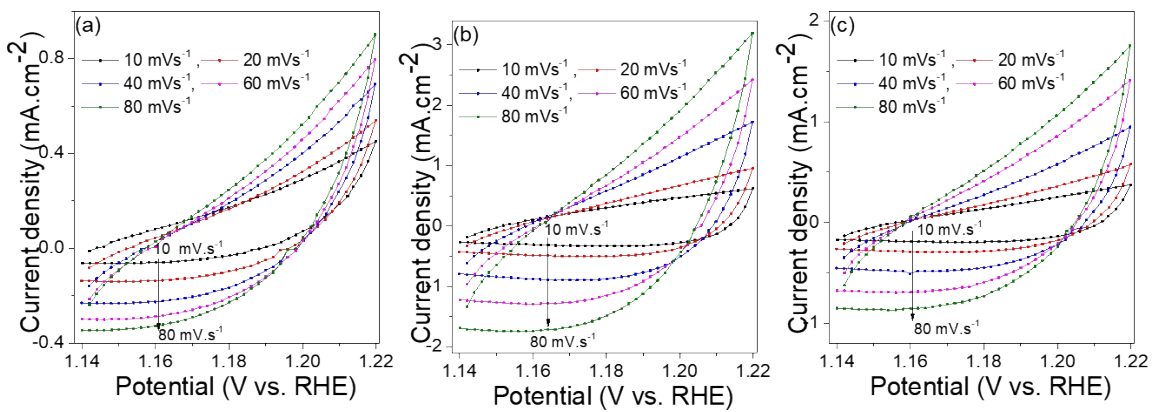


Fig.S5 Cyclic voltammograms of (a) pristine CeO₂ (b) 20 mol% Ni doped CeO₂ (C) 20% Fe doped CeO₂.