Supporting Information

On the chemical state of Co oxide electrocatalysts during alkaline water splitting

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S1: Comparison of calculated XANES of α-$NaCoO_2$,[1,2] β-$Na_{0.5}CoO_2$,[3] and γ-$Na_{0.5}CoO_2$[3,4] based on experimental lattice parameters compared to β-CoOOH and β-$H_{0.5}CoO_2$ from the main text.

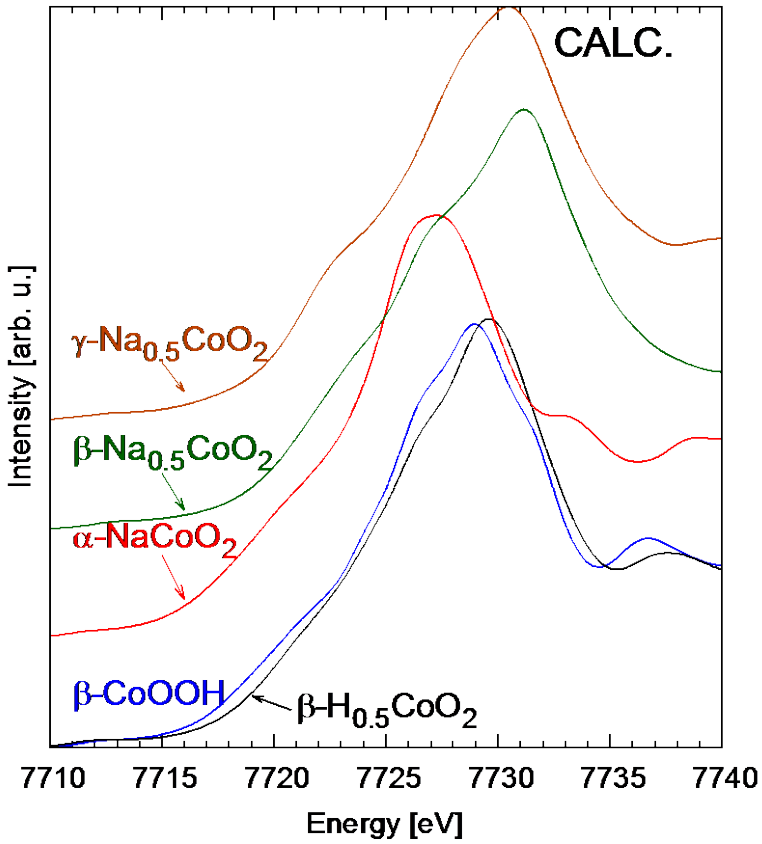

Figure S1: Theoretical XANES calculation based on dipole-only cross-section for the corresponding ideal crystalline systems (see also Table 1 of the main text for computational details). Each computed spectrum was shifted by constant of 7010 eV relative to its Fermi level. The broadening parameter was set to 1.5 eV in the continued fraction algorithm.

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