

## A Core and Valence-Level Spectroscopy Study of the Enhanced Reduction of CeO<sub>2</sub> by Iron Substitution—Implications for the Thermal Water-Splitting Reaction

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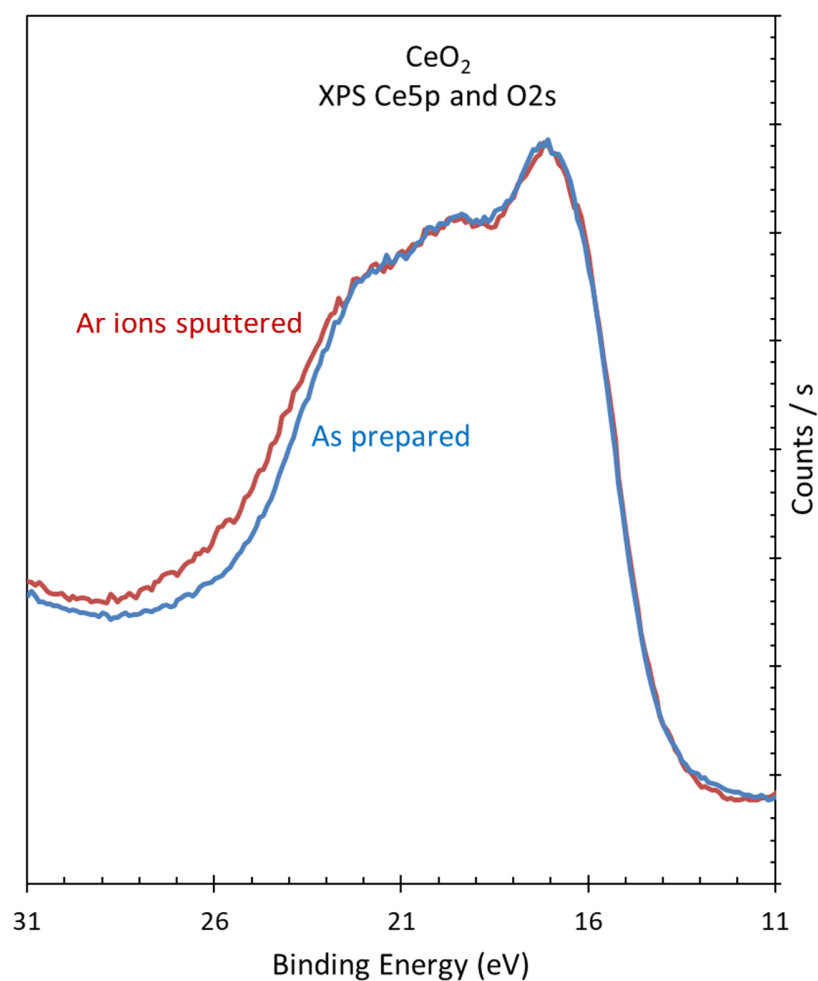
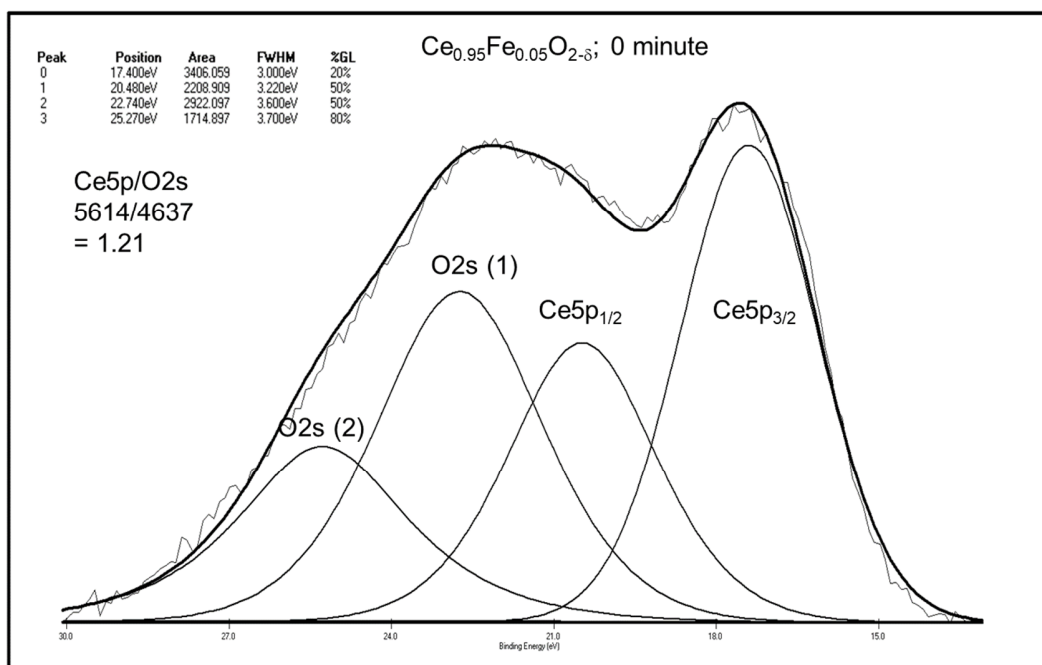


Figure S1.

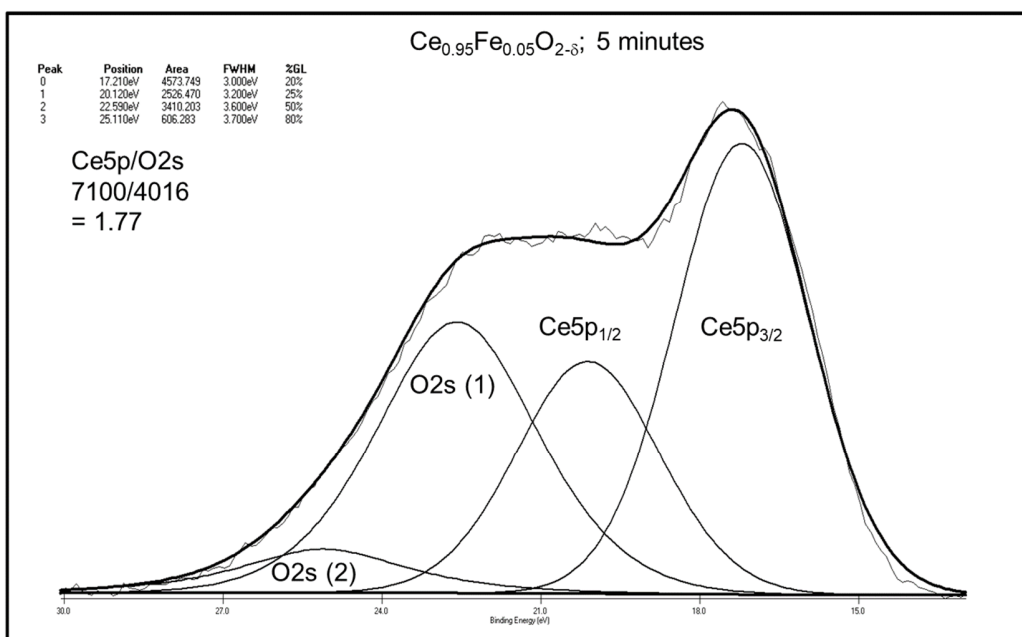
Normalized XPS Ce5p and O2s of as prepared CeO<sub>2</sub> and after 5-minute argon ions sputtering.

## Supporting Information

A

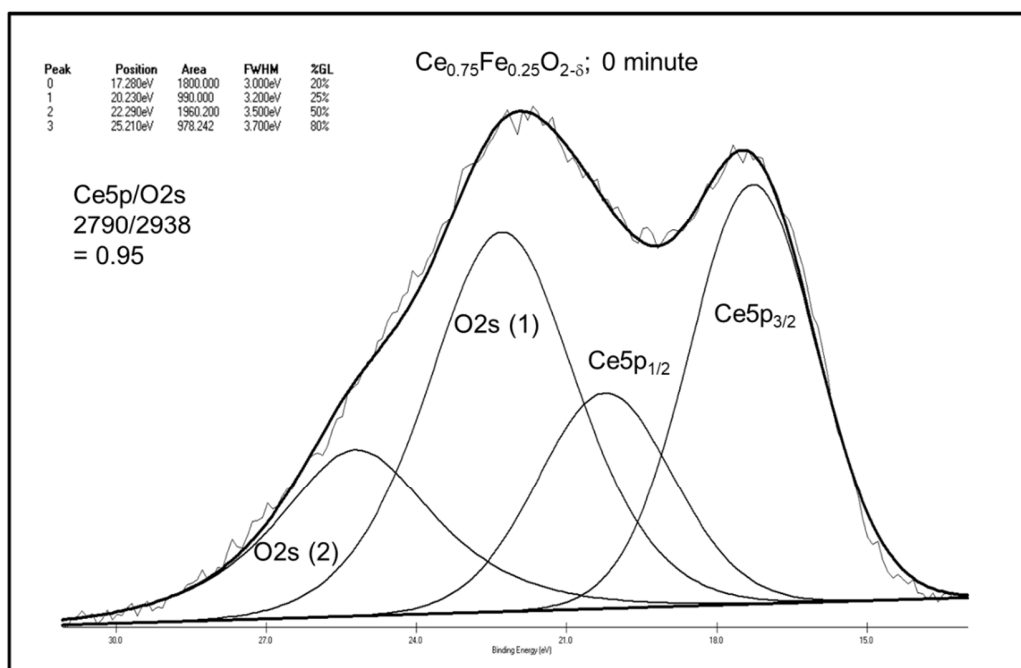


B

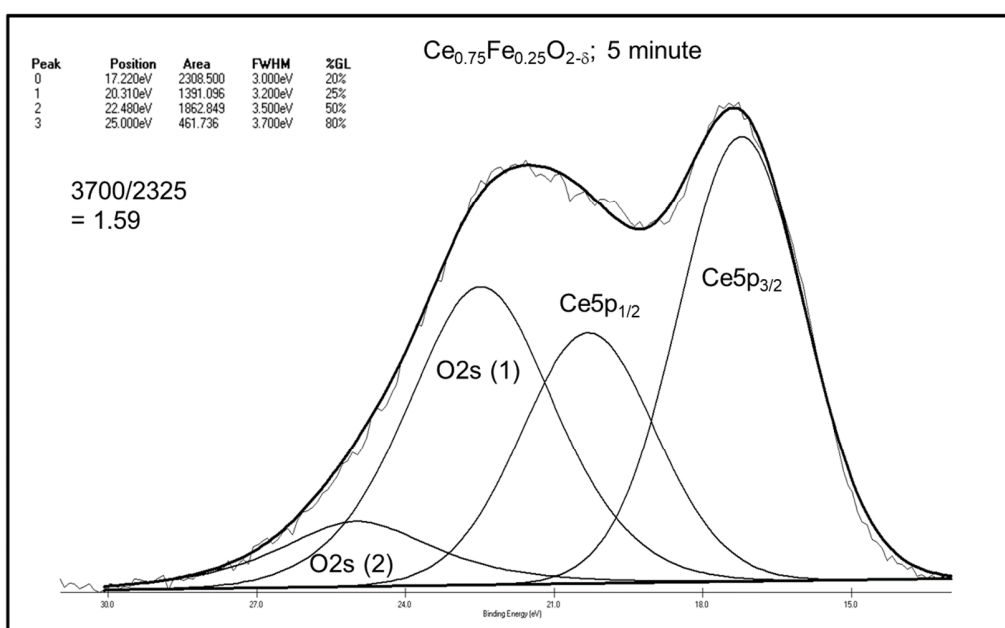


## Supporting Information

C



D



## Supporting Information

### Figure S2

Curve fitting of the XPS Ce5p and O2s peaks for the fresh A and C and Argon ions sputtered B and D  $\text{Ce}_{0.95}\text{Fe}_{0.05}\text{O}_{2-\delta}$  and  $\text{Ce}_{0.75}\text{Fe}_{0.25}\text{O}_{2-\delta}$ , respectively.