

A Core and Valence-Level Spectroscopy Study of the Enhanced Reduction of CeO₂ by Iron Substitution—Implications for the Thermal Water-Splitting Reaction

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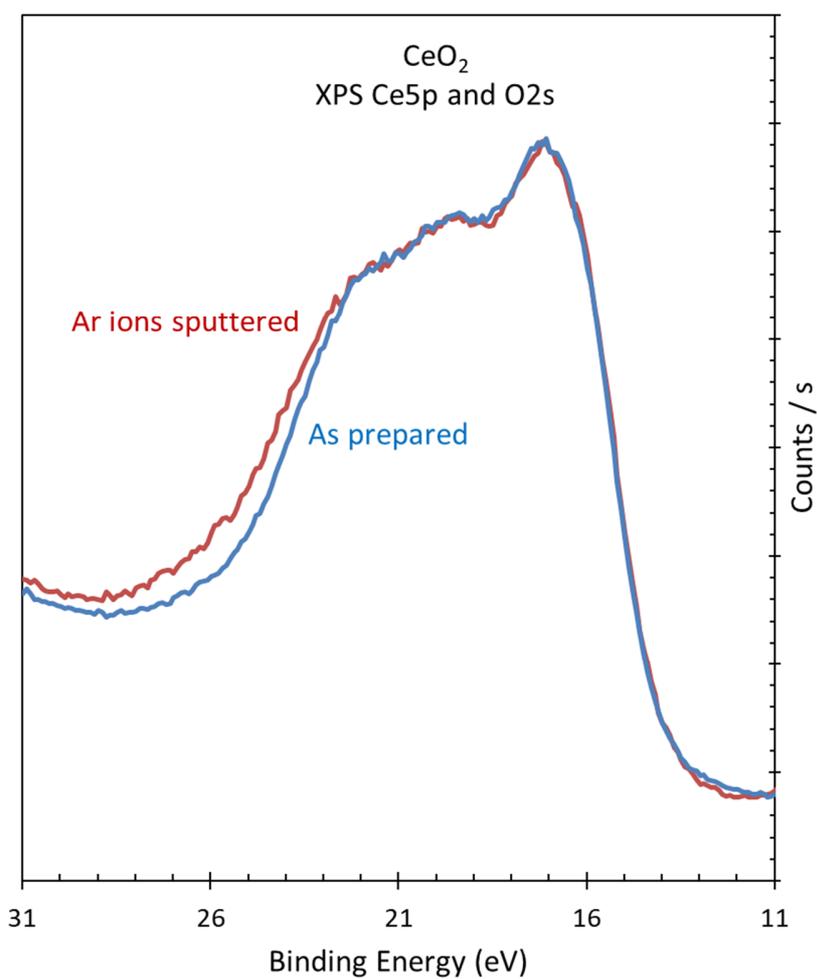
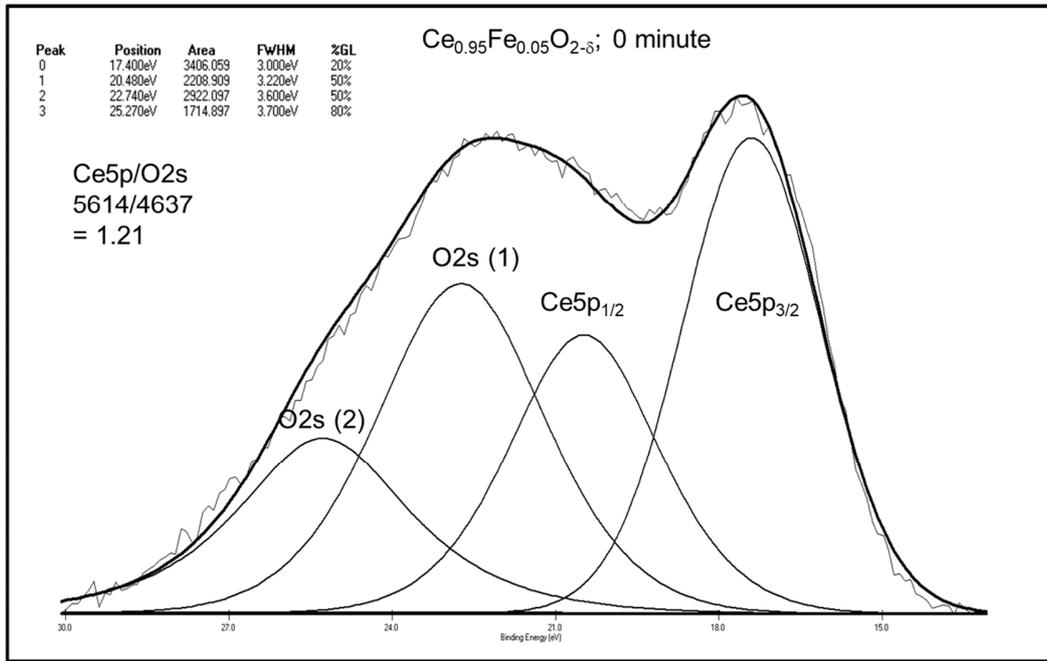


Figure S1.

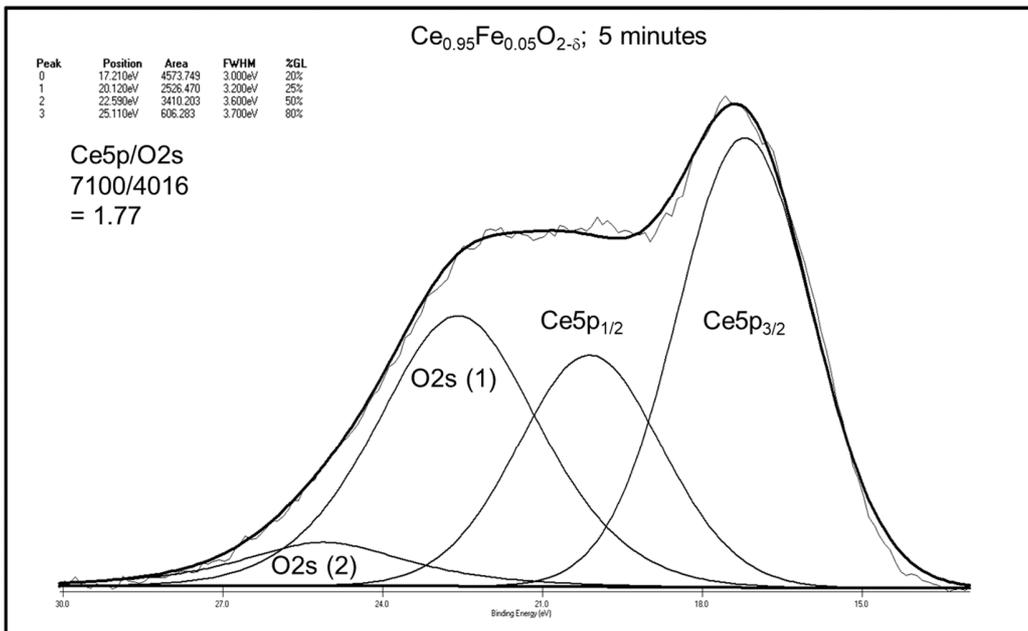
Normalized XPS Ce5p and O₂s of as prepared CeO₂ and after 5-minute argon ions sputtering.

Supporting Information

A

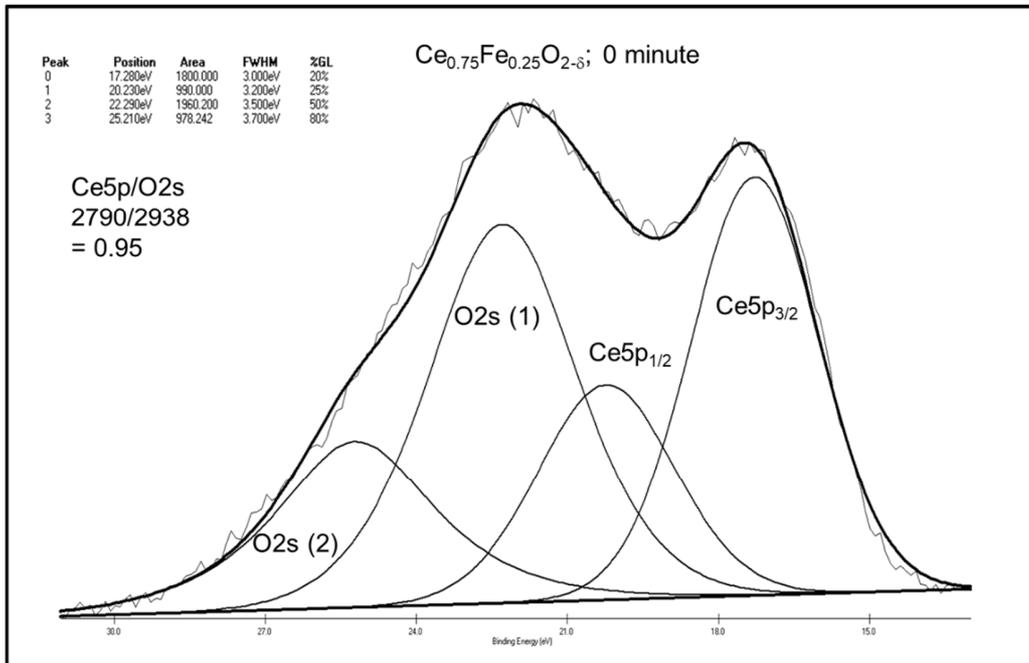


B

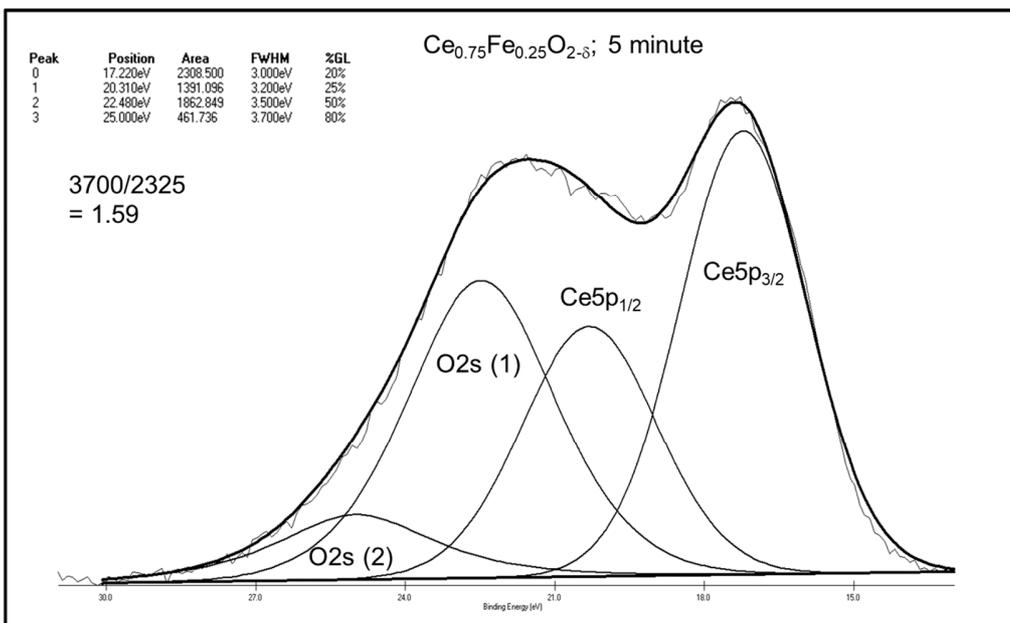


Supporting Information

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.