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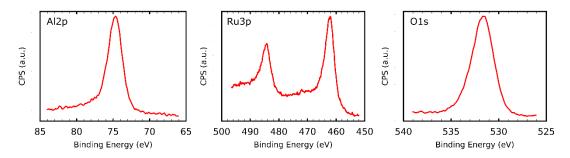
## --- Supplementary Information ---

## Atomic layer deposition of ternary ruthenates by combining metalorganic precursors with RuO<sub>4</sub> as the co-reactant

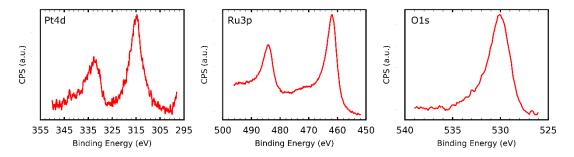
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## **Supplementary Figures**



**Fig. S1.** XPS spectra acquired after 4000 s of depth profiling using a 1 kV  $Ar^+$  ion beam on a thin film deposited by the TMA/RuO<sub>4</sub> process.



**Fig. S2.** XPS spectra acquired after 125 s of depth profiling using a 3 kV Ar<sup>+</sup> ion beam on a thin film deposited by the MeCpPtMe<sub>3</sub>/RuO<sub>4</sub> process.

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