

## Accepted Manuscript

Title: Determination of the cation site distribution of the spinel in multiferroic  $\text{CoFe}_2\text{O}_4/\text{BaTiO}_3$  layers by X-ray photoelectron spectroscopy

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**Highlights.**

We grow epitaxial and well characterized  $\text{CoFe}_2\text{O}_4 / \text{BaTiO}_3$  thin films

We studied the spinel cation site distribution in  $\text{CoFe}_2\text{O}_4 / \text{BaTiO}_3$  thin films.

We quantitatively determine the spinel inversion parameter by XMCD and XPS.

We propose a reproducible XPS fit method based on physical principles.

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