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## ACCEPTED MANUSCRIPT

## Strontium titanate (100) surfaces monitoring by high temperature in-situ ellipsometry

*In-situ* spectroscopic ellipsometry monitoring of the contamination layer with different atmosphere and temperature

Evidence of desorption process of the contaminated layer until 550°C for both random and  $\rm TiO_2$  termination

Confirmation of water and carbon contamination layer by XPS

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