## **Supplementary Information**

## Interaction of SrO-terminated SrTiO<sub>3</sub> Surface with Oxygen, Carbon Dioxide, and Water

Aleksandar Staykov,<sup>a,\*</sup> Shun Fukumori,<sup>b</sup> Kazunari Yoshizawa,<sup>b</sup> Kenta Sato,<sup>c</sup> Tatsumi Ishihara,<sup>a,c</sup> John Kilner<sup>a,d</sup>

<sup>a)</sup> International Institute for Carbon Neutral Energy Research, Kyushu University, Japan

<sup>b)</sup> Institute for Materials Chemistry and Engineering, Kyushu University, Japan

<sup>c)</sup> Applied Chemistry Department, Kyushu University, Japan

<sup>d)</sup> Materials Science Department, Imperial College London, UK

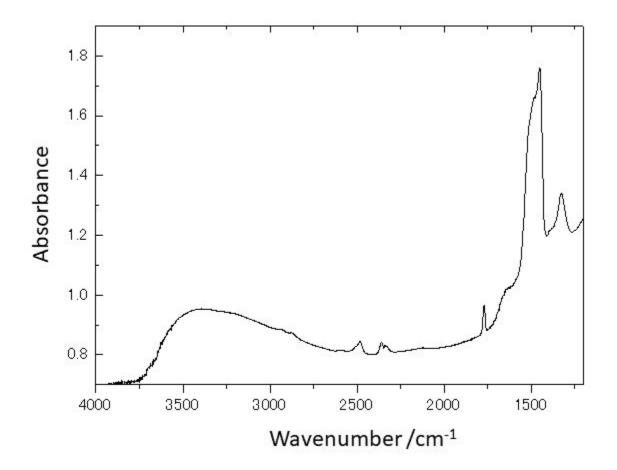


Figure S1: SrTiO<sub>3</sub> FTIR spectrum at 500°C after  $CO_2$  and  $H_2O$  have been evacuated from the surface.