

“TE\_Supporting\_Information”).

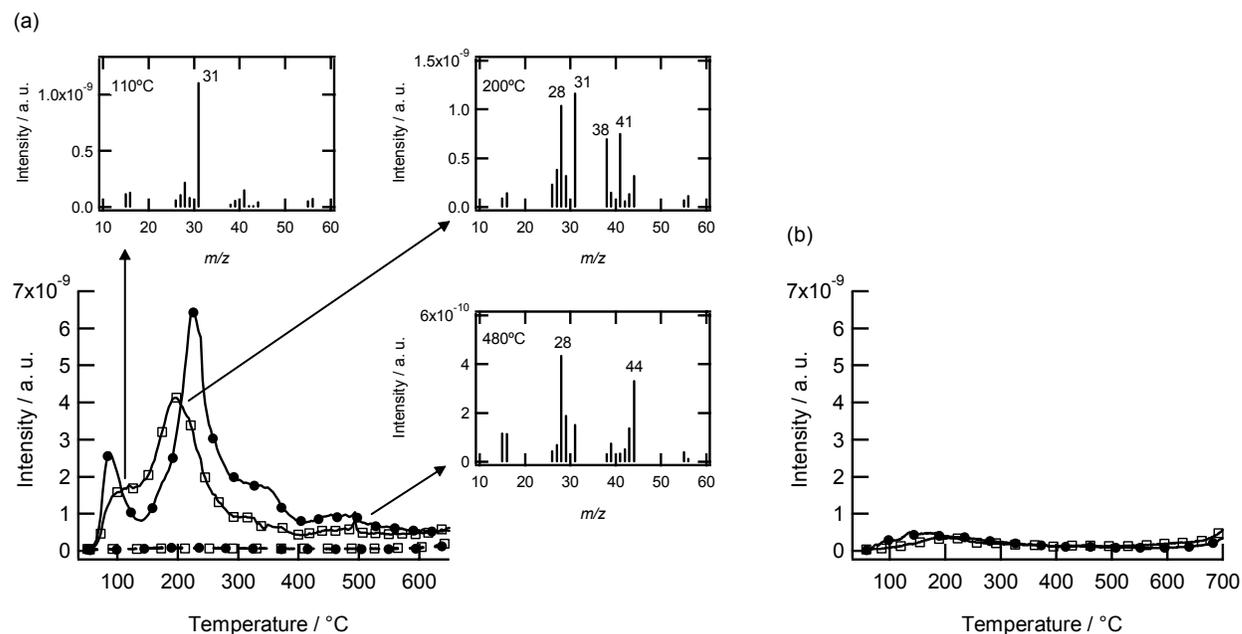


Fig. S1 Temperature desorption spectra of  $\text{H}_2\text{O}$  (●) and CC (□) from (a) as-deposited and (b) annealed binary  $\text{TiO}_2\text{-La}_2\text{O}_3$  composite film. In (a), the dashed line show the spectra measured for the specimens that have been heated up to  $700^\circ\text{C}$  during the first measurement.