

## Accepted Manuscript

Adsorption and photolysis of trimethyl acetate on  $\text{TiO}_2(\text{B})(001)$  studied with synchrotron radiation core level photoelectron spectroscopy

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PII: S0039-6028(17)30437-5  
DOI: [10.1016/j.susc.2017.09.007](https://doi.org/10.1016/j.susc.2017.09.007)  
Reference: SUSC 21094



To appear in: *Surface Science*

Received date: 15 June 2017  
Revised date: 11 September 2017  
Accepted date: 12 September 2017

Please cite this article as: A. Sandell , A. Schaefer , D. Ragazzon , M.H. Farstad , A. Borg , Adsorption and photolysis of trimethyl acetate on  $\text{TiO}_2(\text{B})(001)$  studied with synchrotron radiation core level photoelectron spectroscopy, *Surface Science* (2017), doi: [10.1016/j.susc.2017.09.007](https://doi.org/10.1016/j.susc.2017.09.007)

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## Highlights

- Trimethyl acetic acid was adsorbed on a thin film of TiO<sub>2</sub>(B)(001) formed on Au(111).
- The structure of the formed trimethyl acetate (TMA) layer and its depletion under UV radiation was explored using core level photoelectron spectroscopy.
- A TMA overlayer with (2x1) periodicity was proposed.
- The initial TMA depletion rate was found to be two times higher on TiO<sub>2</sub>(B)(001) than on the reduced rutile TiO<sub>2</sub>(110) surface.

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