

Accepted Manuscript

First layer water phases on anatase TiO₂(101)

A. Schaefer , V. Lanzilotto , U. Cappel , P. Uvdal , A. Borg ,
A. Sandell

PII: S0039-6028(18)30015-3
DOI: [10.1016/j.susc.2018.03.019](https://doi.org/10.1016/j.susc.2018.03.019)
Reference: SUSC 21223

To appear in: *Surface Science*

Received date: 9 January 2018
Revised date: 22 March 2018
Accepted date: 30 March 2018

Please cite this article as: A. Schaefer , V. Lanzilotto , U. Cappel , P. Uvdal , A. Borg ,
A. Sandell , First layer water phases on anatase TiO₂(101), *Surface Science* (2018), doi:
[10.1016/j.susc.2018.03.019](https://doi.org/10.1016/j.susc.2018.03.019)



This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Thick water layers on anatase TiO₂(101) facilitate dissociation
- The method of preparation of submonolayer water adsorbates determines the
- amount of hydroxyl groups formed
- Water forms a first layer structure on anatase TiO₂(101) with water-water
- hydrogen bonds
- The results reconcile apparent disagreements between reports from STM and
- XPS experiments.

Download English Version:

<https://daneshyari.com/en/article/7844712>

Download Persian Version:

<https://daneshyari.com/article/7844712>

[Daneshyari.com](https://daneshyari.com)