Dataset of AFM measurements for manuscript

**Cadmium-free electron transport layers for hydrothermally processed semitransparent Sb2S3 solar cells**

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\*\*\*General Introduction\*\*\*

This dataset contains raw AFM data related surface topography of different layers for solar cell applications.

The data was collected at Luleå University of Technology (Luleå, Sweden). All data are provided under CC0 license.

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\*\*\*Characterization techniques\*\*\*

The AFM topography maps were recorded using an NTEGRA system from NT-MDT. High- quality topography maps were recorded in semi-contact mode using a Tap150Al-G soft tapping mode AFM probes from BudgetSensors with a nominal force constant of 5 N/m.

\*\*\*General description of the data in this data set\*\*\*

Dataset contains 5 files named after the type of the examined surface:

TiO2 – TiO2 film;

TiO2-ZnS – TiO2-ZnS film;

SbS3-CdS – Sb2S3 film on CdS film;

SbS3-TiO2 – Sb2S3 film on TiO2 film;

SbS3-TiO2-ZnS – Sb2S3 film on TiO2-ZnS film.

Data are presented in .mdt format and can be opened in AFM analysis software.