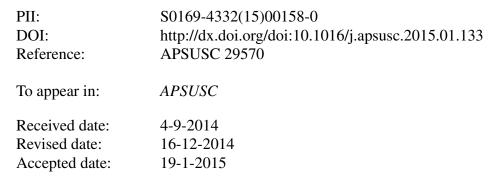
#### Accepted Manuscript

Title: Memory programming of  $\text{TiO}_{2-x}$  films by Conductive Atomic Force Microscopy evidencing filamentary resistive switching

Author: P. Bousoulas J. Gianopoulos K. Giannakopoulos P. Dimitrakis D. Tsoukalas



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### ACCEPTED MANUSCRIPT

#### Title:

# Memory programming of TiO<sub>2-x</sub> films by Conductive Atomic Force Microscopy evidencing filamentary resistive switching

Authors:

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Journal: Applied Surface Science

- We correlate RRAM performance with C-AFM measurements.
- We demonstrate resistive switching through C-AFM process.
- We present evidence of filament formation.
- We demonstrate resistive switching in nanoscale area.

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